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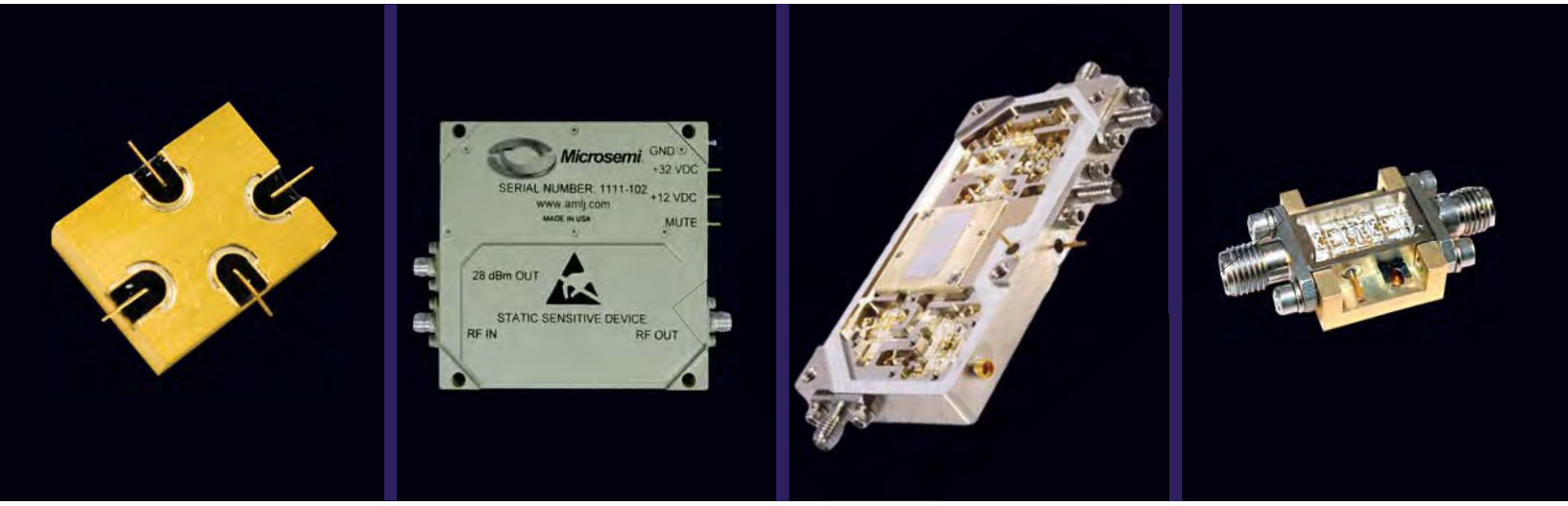
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Power Matters.

RF Integrated Solutions



NEW Gallium Nitride (GaN) Amplifiers

Low, Medium & High Power Amplifiers

Surface Mount Amplifiers

Limiting Amplifiers

Equalizer Amplifiers

Variable Gain Amplifiers

High Dynamic Range Amplifiers

Multipliers

Multi-Function Assemblies

Microsemi

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Microsemi: RF Integrated Solutions Overview

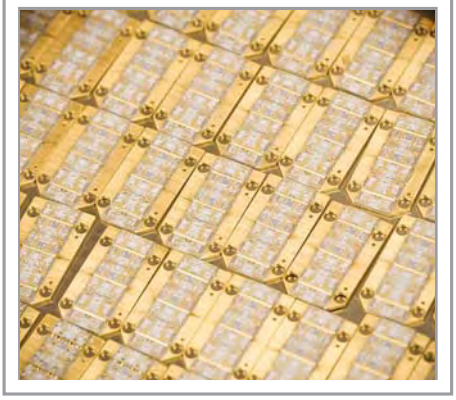
Microsemi Corporation offers a comprehensive portfolio of semiconductor and system solutions for defense and security, aerospace, communications and industrial markets. The company's high-performance RF, microwave and millimeter wave solutions includes high reliability diodes, power transistors, limiters, detectors, switches, low noise and power amplifiers and integrated multi-function modules based on advanced semiconductor (SiC, SiGe, GaAs, GaN, InP) and packaging technologies. Microsemi's product portfolio also includes millimeter wave integrated circuits for passive and active imagers, ultra low-power RF radios, modules for medical and energy harvesting applications and RF components for wireless local area networking products.





Manufacturing & Quality

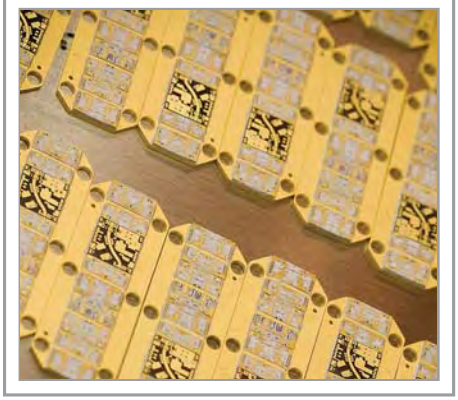
Microsemi's facilities include a dedicated 25,000 square-foot building in Camarillo, California for design, manufacture, assembly and test of RF, microwave and millimeter wave components and subassemblies to 110 GHz. The facility features a fully equipped Class 100,000 production floor with specific workstations maintained at better than Class 10,000 by the use of laminar air flow systems.



Microsemi's Quality Management System (QMS) in Camarillo is registered to ISO9001:2008/ AS9100:2009 Rev. C. It has been surveyed and approved by numerous prime contractors and U.S. Department of Defense. Microsemi processes and procedures also embody MIL-PRF-38534 guidelines.

Automated Assembly & Test Equipment

Microsemi's commitment to continuous improvement encompasses investments in advanced automated assembly and test equipment as well as ongoing training for personnel in all areas of operations. The combination of these elements allows the company to reduce costs and factory cycle times while delivering consistently high quality, high yields and exceptional customer service.







The company's automated RF assembly equipment includes both Newport MRSI and Palomar advanced programmable substrate and die attach equipment. This outstanding aid to efficiency, quality and repeatability delivers 10 micron placement accuracy. Programmable automated wire bonders (F&K Delvotek 6400) provide world-class gold wire bonding in a high volume environment. Hermetic modules are sealed using a laser welder.

Automated Test Equipment

Microsemi's advanced RF and microwave equipment automated test equipment (ATE) provides customers with important advantages ranging from customized test sets to detailed electronic data collection for analysis, system simulation and record purposes. The PNA-X provides customers with the following benefits:

• Faster and Broader Testing: Capable of swept compression point, noise figure and intercept point measurements that are not possible on previous generations of analyzers. Testing time is reduced and the credibility of data is greatly enhanced.

• Higher Accuracy: The PNA-X provides higher measurement accuracies than older equipment (e.g. noise figure meters, power meters) which is especially important when measuring ultra-low noise figure designs or establishing broadband power measurements. Key features include:

- Uncertainty Calculator: Determines the uncertainty in order to produce accurate and repeatable results.

- Frequency Signal Filter: Filters out signal outside of the frequency of interest to provide a more accurate measurement.

Test Services

Microsemi offers a comprehensive suite of common, specialized, phase noise and environmental test services.
Common Tests:

- Gain
- Return Loss
- Electrical Length
- Reverse Isolation
- Noise Figure
- 1dB Compression Point
- Intercept Points

Specialized Tests

To meet customer-specific requirements, Microsemi's manufacturing engineering team develops specialized tests that are often extensive and complex. Examples of specialized testing include measuring harmonics over a multi-octave bandwidth every 50 MHz, testing multiple (100+) states of switched or variable gain, analyzing monotonicity of attenuation, analyzing complex phase matching and measuring gain/phase ripple every few MHz over a wide frequency spectrum.



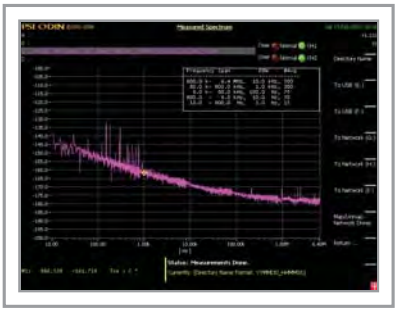
X Band Noise Floor:
-160dBc/Hz @ 100 Hz

Phase Noise Measurement Tests

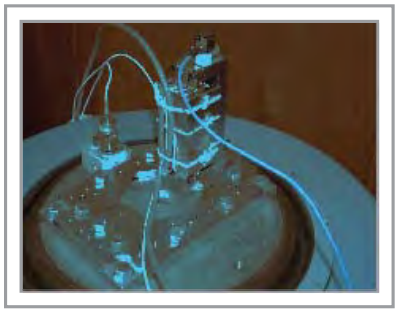
Microsemi measures and warrants phase noise performance for all low phase noise amplifier products for operational frequencies up to 40 GHz including surface mount packaging options. Two fully automated dual channel phase noise measurement systems support customer testing requirements. Both systems employ cross correlation to reduce system noise floor by approximately 10-15 dB. This provides accuracy of residual noise measurements.

Additional phase noise measurement tests are available for components used in defense applications and products that are used in harsh operating environments such as:

- Acceleration sensitivity and phase noise measurements under vibration
- Dual channel cross correlation measurement with noise floor -160dBc/Hz at 100 Hz offset at X-band
- DC to 18 GHz phase noise and AM noise measurements
- DSS certification for measurements on applications where the frequency or the phase noise performance is classified.



X Band Noise Floor:
-160dBc/Hz @ 100 Hz



Phase Noise Testing
Under Vibration

Environmental Stress Screening



Random Vibration Test Set



Pneumatic Shock Machine



Temperature Cycling Chamber

Products manufactured by Microsemi are subjected to environmental stress screening (ESS) tests rooted in military standards such as MIL-STD-810, MIL-STD-202 and MIL-STD-883, as well as customer-directed procedures. ESS testing capabilities encompass: “power on” elevated temperature, burn-in, thermal and mechanical stress processes, fine and gross leak testing, random and sine vibration, humidity, and more. Microsemi also uses certified environmental laboratories for testing including: altitude, fungus, salt atmosphere and pressure, and residual gas analysis.

NEW Low Noise Amplifiers

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AML016L2814	0.1 - 6.0	28	1.25	1.3*	7	14	2.0:1	190	B2
AML0118L2512	0.1 - 18.0	24.8 - 27.5 †	1.5	2.5*	6	16	2.0:1	160	B3
AML18L3001	1.0 - 8.0	30	2	1.8	13	22	1.8:1	110	modK3
AML33L3201	3.1 - 3.6	32	1	0.6	18	28	1.8:1	150	C3
AML45L2802	4.4 - 5.0	28	1	0.7	10	18	2.0:1	100	C3
AML56L2802	5.9 - 6.4	28	1	0.7	10	18	2.0:1	100	C3
AML618L4011	6.0 - 18.0	40	2	1.6	10	20	2.0:1	220	K5
AML812L3003	8.0 - 12.0	30	1.5	1.3	10	18	2.0:1	150	K3
AML910L3003	9.5 - 10.5	30	1	1.2	10	18	2.0:1	150	K3
AML1213L3002	12.2 - 13.2	30	1	1.3	10	18	2.0:1	150	K3
AML1617L3002	16.0 - 17.0	30	1	1.4	10	18	2.0:1	150	K3

NEW Medium Power Amplifiers

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AML0126P3001	0.1 - 26.5	30	3.5	5.0*	19	26	2.0:1	400	KA3
AML0126P3002	0.1 - 26.5	30	3	6.0*	26dBm^	30	2.0:1	600	KA3
AML0132P2801	0.1 - 32.0	28	3	6.0*	0.1 - 18: 20dBm 18 - 32: 18dBm	26	2.2:1	450	KA3
AML0140P2801	0.1 - 40.0	26	3.5	2 - 30: 6dB 30 - 40: 8dB	2 - 30: 18dBm 30 - 40: 15dBm	25	2.2:1	450	KA3
AML046P3411	0.4 - 6.0	34	2.5	4.5	30	37	2.0:1	1200	modK6
AML618P4202	6.0 - 18.0	42	2.5	3.0	35	42	1.8:1	2200	KP8
L1840-27	18.0-40.0	30	-	-	26.5 min, 27dBm	-	2.0:1	4000	1
L2640-32	26.0-40.0	35	-	-	32 min, 33dBm	-	2.0:1	5000	922-2

NEW Surface Mount Amplifiers

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AML056L2812-S	0.5 - 6.0	28	1.5	1.6	5	5	2.0:1	5V/150mA	SMT08
AML26P1711-S	2.0 - 6.0	17	1	6.0	25	33	1.8:1	9V/480mA	SMT-2
AML33L2511-S	3.1 - 3.7	24	0.75	1.0	10	20	1.6:1	5V/90mA	SMT08
AML55L2511-S	5.4 - 5.9	23	0.75	1.1	10	20	1.6:1	5V/90mA	SMT08
AML612L2212-S	6.0 - 12.0	20	1	3.0	15	25	1.8:1	5V/90mA	SMTH2
AML612P2011-S	6.0 - 12.0	18	1	5.0	27	37	1.8:1	9V/350mA	SMTH2
AML618L1511-S	6.0 - 18.0	15	1	3.5	17	27	1.8:1	12V/150mA	SMP2

*Above 500MHz
† Gain specified as min to max
^2.0-18GHz: +26dBm; 18-24GHz: +24dBm; 24-26.5GHz: +23dBm

NEW Low Phase Noise Amplifiers

Model Number	Freq. Range (GHz)	Gain (dB min)	Flat. (± dB max)	100 Hz Offset	1KHz offset	10KHz Offset	100KHz Offset	1MHz Offset	NF (dB max)	P1dB (dBm min)	VSWR (nom)	DC Power
AML13PNB1801	1.0 - 3.0	18	1.0	-152	-161	-168	-173	-174	6	22	1.8:1	350
AML33PNB2601	3.1 - 3.6	26	0.5	-148	-157	-162	-167	-170	7	24	1.8:1	1000
AML812PND1511	8.0 - 12.0	16	3.0	-154	-162	-168	-169	-170	8	18	1.5:1	1800
AML911PNC0801	9.0 - 11.0	8	1.0	-153	-161	-168	-170	-175	7.5	20	1.8:1	600
AML4040PNB1511	38.0 - 40.0	15	-	-135	-146	-150	-155	-160	-	24	1.8:1	1200

NEW High Dynamic Range Amplifiers

Model Number	Frequency Range (GHz)	Gain (dB min)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	Output IP2 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	VDC
AML20M3P4201	0.02 - 3.0	42	2.0*	23	+37	+47	2.0:1	375	12
AML20M3P2101	0.02 - 3.0	21	5.5*	27	+43	+53	2.0:1	400	12
AML26P3501	2.0 - 6.0	35	3.5	29	+39	+62	1.8:1	1000	12
AML618P3202	6.0 -18.0	32	4.0	28	+37	+60	1.8:1	1200	12

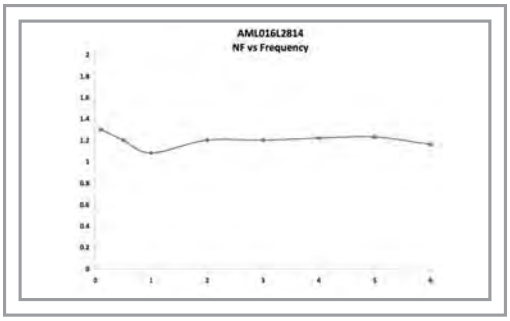
NEW GaN Power Amplifiers

Model Number	Frequency Range (GHz)	Gain (dB min)	Psat (dBm min)	Psat (Watts) (min)	Operating Voltage	PAE
AML056P4501	0.5 - 6.0	45	40	10	28V	25%
AML26P4001	2.0 - 6.0	40	40	10	28V	28%
AML26P4002	2.0 - 6.0	40	43	20	28V	28%
AML910P4204	9.9 - 10.7	43	40	10	32V	25%
AML910P4206	9.9 - 10.7	45	43	20	32V	25%

NEW High Power Amplifiers

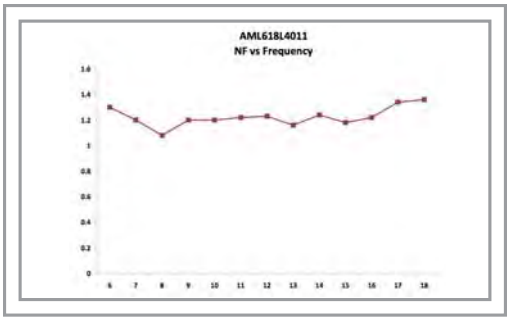
Model Number	Frequency Range (GHz)	Psat (dBm)	Psat (W)	P1dB (dBm)	Gain (dB)	Pac (kW)	Vd (VDC)	Id (A)	Height (in)	Outline
L0618-46	6.0 - 18.0	46.0	40.0	44.0	47.0	-	12.0	52.0	-	371-10
C0812-46	8.0 - 12.0	46.0	40.0	45.0	-	0.4	-	-	5.25	-
L0809-45	8.5 - 9.6	45.5	35.0	44.5	50.0	-	15.0	22.0	-	834-5
C090105-53	9.0 - 10.5	53.0	200	52.0	-	1.5	-	-	8.75	-
C144155-49	14.4 - 15.5	49.0	80.0	48.5	-	1.2	-	-	8.75	-
L2632-37	26.0-32.0	38	-	12	37	-	2.0:1	10.0	-	1023-1
L1826-36	18.0-26.0	38	-	-	36	-	2.0:1	8.0	-	814E
L3434-40	34.0 - 34.5	40.0	10.0	39.0	45.0	-	12.0	17.0	-	1023-1

0.1 - 6.0 GHz 1.2 dB Low Noise Amplifier



AML016L2814 is a broadband 0.1 to 6 GHz LNA with typical noise figure of 1.2dB above 500 MHz. Amplifier has 30 dB typical gain and ±1dB typical gain variation over frequency. Amplifier operates with +12 to +15 VDC. Package is hermetically sealed with field removable SMA (f) connectors.

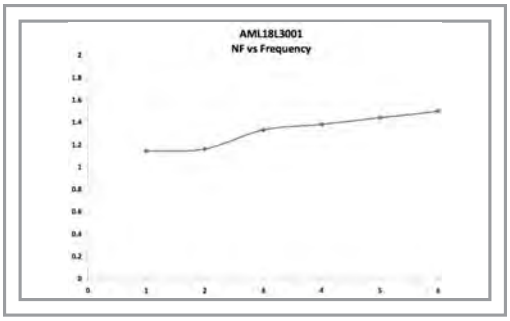
6.0 - 18.0 GHz 1.3 dB Low Noise Amplifier



AML618L4011 is a 6 to 18 GHz high gain LNA with typical noise figure of 1.3dB over the full band. Amplifier has 40dB min gain and ±1.5dB typical gain variation over frequency. Amplifier operates with +12 to +15 VDC.

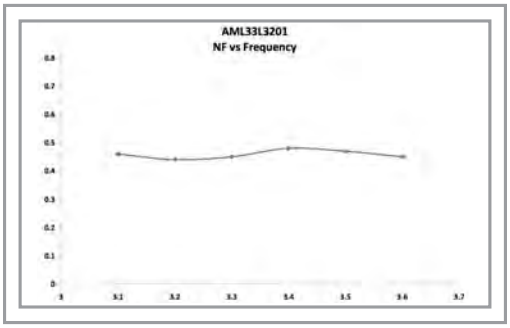
Package is hermetically sealed with field removable SMA (f) connectors.

1.0 - 8.0 GHz 1.5 dB Low Noise Amplifier



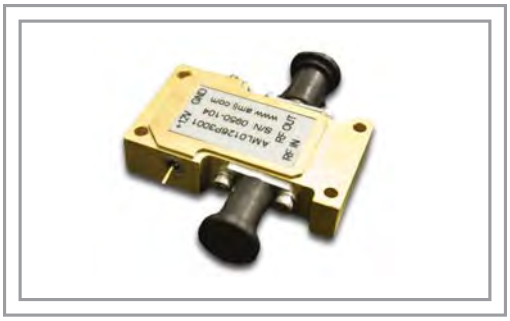
AML18L3001 is a connectorized LNA operating over 1 to 8 GHz LNA with typical noise figure below 1.5 dB. Amplifier has 30 dB min gain and ±1.5 dB typical gain variation over frequency, output P1dB is +13dBm min and operates with +12 to +15 VDC. Package is epoxy sealed with field removable SMA (f) connectors

3.1 - 3.6 GHz 0.5 dB Low Noise Amplifier



AML33L3201 is a 3.1-3.6 GHz LNA with typical noise figure below 0.5dB. Amplifier has 32 dB minimum gain, P1dB +18dBm and OIP3 of +28dBm. Amplifier operates with +12 to +15 VDC. Package is epoxy sealed with field removable SMA (f) connectors.

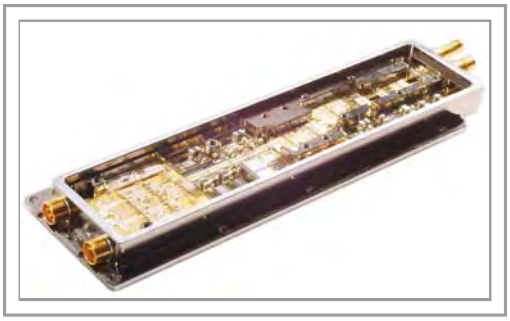
0.1 - 26.5 GHz Broadband Medium Power Amplifier



Operating in the frequency range of 100 MHz to 26.5 GHz, these amplifiers offer gain of 30dB minimum and typical noise figure below 5dB (above 500MHz). Output P1dB is +19dBm min / +22dBm typical for P3001 and +25dBm min / +27dBm typical for P3002. Amplifiers operate from a single +12 to +15VDC supply with nominal DC current of 400mA for P3001 and 700mA for P3002.

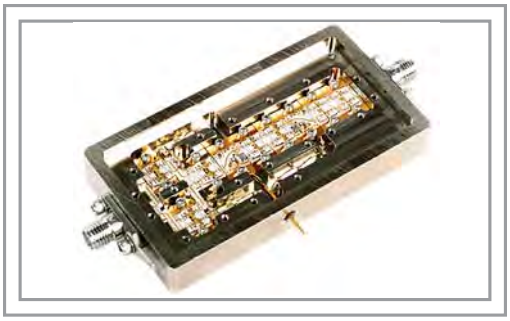
Operating temperature range of -54ºC to +85ºC is available as an option.

6.0 - 18.0 GHz High Efficiency Dual Output Amplifier



Model AML618P5012: High Efficiency Dual (combined) input, Dual Output Power Amplifier operating over 6-18 GHz bandwidth. Amplifier delivers +31dBm power at each output and is designed to operate up to +95C base plate temperature. AML618P5012 is available with input power protection option up to 2W CW. This design is available in a high-density package. DC supply is +10V at 2.2 Amps.

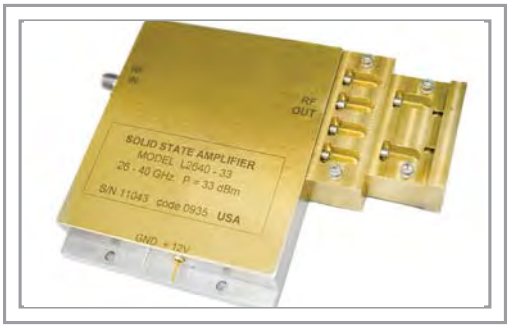
6.0 - 18.0 GHz 3 Watt Amplifier



This amplifier operates over 6.0 to 18.0 GHz with industry best DC to RF efficiency. Output P1dB is +35dBm (3 Watts). Gain is 42dB min with flatness within +/- 2.5dB max. DC Current @ +12VDC is under 2.5A. Dimensions are 2.85”L x 1.5”W x 0.5”H.

Operating temperature range of -54ºC to +85ºC is available as an option.

26.0 - 40.0 GHz 1.5 Watt Power Amplifier



Model L2640-32 is a Ka band High Power Amplifier operating over the 26-40 GHz bandwidth. This Amplifier delivers 2 Watts typically, 1.5W min of output power across the entire bandwidth and greater than 35 dB of small signal gain. Package size is 3.60” x 4.31” x 0.65”. RF connectors are K input and waveguide WR28 output, and the DC supply is +12V at 5 Amps. Amplifier can be provided in an industry standard 19” rack mount chassis. Other options can be specified, including very fast On/Off switching (35 ns typical, 50 ns max) via standard TTL command.

2.0 - 18 GHz 2.5 Watt Power Amplifiers



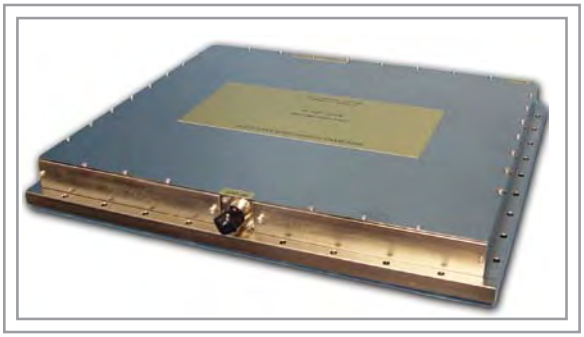
Model L0218-34 is a Multi-Octave band High Power Amplifier operating over the 2-18 GHz bandwidth. This Amplifier delivers 3 to 4 Watts average, 2.5 Watts minimum output power and greater than 35 dB of small signal gain. Package size is 9.7" x 6.2" x 0.55". RF connectors are SMA input and output, and the DC supply is +15V at 10 Amps typical. Amplifier can be provided in an industry standard 19" rack mount chassis. Other options can be specified, including very fast On/Off switching (35 ns typical, 50 ns max) via standard TTL command.

9.0 - 10.5 GHz 100 & 200 Watt Power Amplifiers



The 100 watt model C090105-50 and 200 watt model C090105-53 are X-band High Power Rack Mount Amplifiers operating over 9-10.5 GHz. Small signal gain is greater than 52dB for both models. These amplifiers can be factory tuned to provide 100 or 200W for adjacent bands including 8.5 to 9.6 GHz and 10.7 to 11.7 GHz. Enclosure size is 19"W x 24"D x 8.75"H. RF connectors are SMA input and waveguide WR90 output. Primary power supply is 120 or 220 VAC 50-60Hz @ 850W (for C090105-50)/1.7KW (for C090105-53) typical.

6.0 - 18.0 GHz 40 Watt Power Amplifier



Model L0618-46 is a High Power Amplifier operating over the 6-18 GHz bandwidth. This Amplifier delivers 50 to 60 Watts average, 40 Watts minimum output power with greater than 47 dB of small signal gain. Package size is 13" x 15" x 1.5". Unit can be provided in an industry standard 19" rack mount chassis. RF connectors are SMA input and Type N output, and the DC supply is +12V at 52 Amps. Other options can be specified, including very fast On/Off switching (35 ns typical, 50 ns max) via standard TTL command.

34.0 - 34.5 GHz 10 Watt Power Amplifier



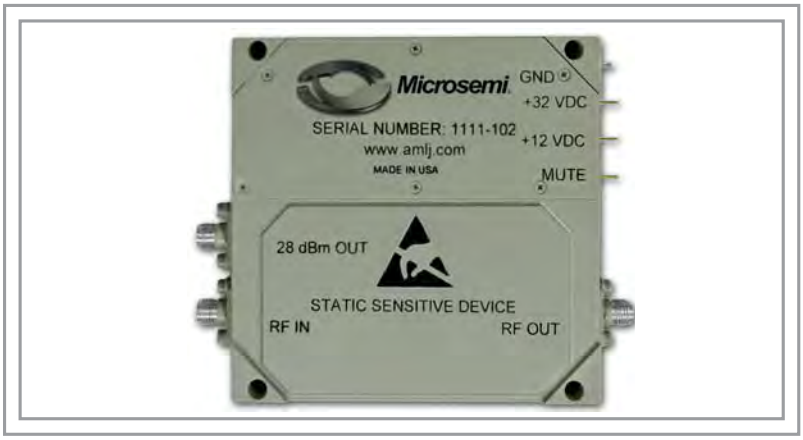
Model L3434-40 is a High Power Amplifier operating over the 34 - 34.5 GHz bandwidth. This Amplifier delivers 10 Watts minimum of output power across the entire bandwidth with greater than 45 dB of small signal gain. This amplifier is available from 31 to 39GHz for narrowband frequencies at 10Watts. Package size is 3.80" x 4.81" x 0.65", or the unit can be provided in an industry standard 19" rack mount chassis. RF connectors are K input and waveguide WR28 output, and the DC supply is +12V at 17 Amps. Other options can be specified, including very fast On/Off switching (35 ns typical, 50 ns max) via standard TTL command.

AML26P4012: GaN 2.0 - 6.0 GHz 20 Watts



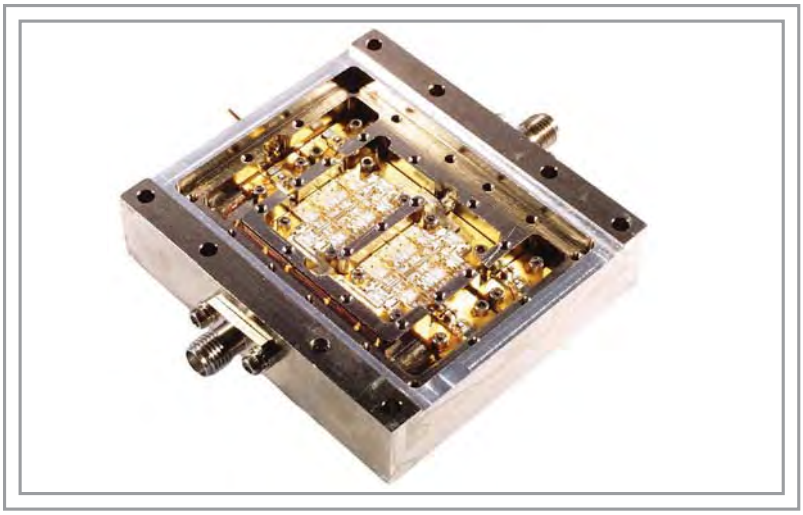
AML26P4012 is a 2.0 to 6.0 GHz 20-Watt GaN amplifier. Amplifier offers minimum +43dBm (20W) output power at 0dBm input. Operating voltage is +28VDC with PAE 28% minimum at Psat. Dimensions are 3" x 2" x 1". Operating temperature range is -20 to +85C. Optional features include TTL On/Off control, integrated isolator and detector voltage.

AML910P4215: GaN 9.9 - 10.7 GHz 15 Watts



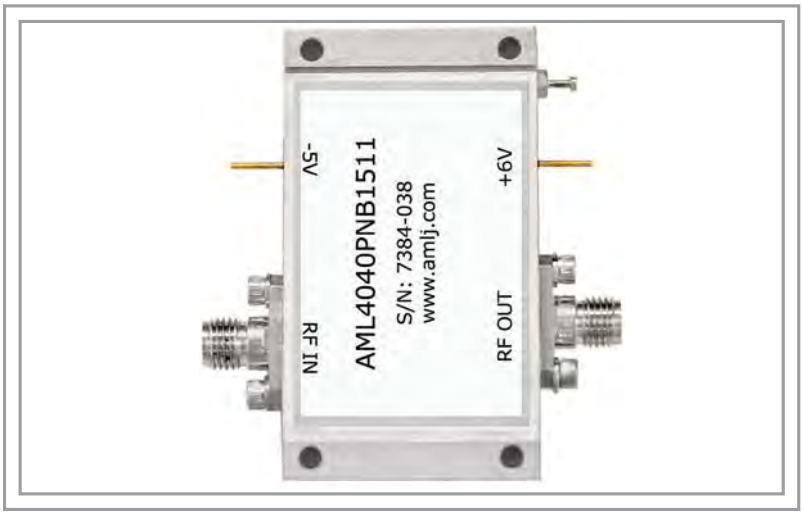
AML910P4215 is a 15 Watt X Band GaN Amplifier that delivers minimum 25% Power Added Efficiency. AML910P4215 operates over 9.9-10.7 GHz. Amplifier requires operating voltages of +32VDC and +12VDC. Amplifier has an integrated isolator at the output; TTL Controlled muting function with 1μs on/off speed; a second output coupled from the main line with +28dBm power; and a detector voltage output. Package Dimensions are 3.6" x 3.4" x 0.67". Operating temperature range is -30 to +60ºC.

X Band High Power Low Phase Noise Amplifier



Microsemi specializes in the design and supply of ultra low phase noise amplifiers. This low phase noise X Band high power amplifier, model AML812PND1511 operates in the frequency range of 8.0 to 12.0 GHz and provides output P1dB of +34dBm min (2.5 Watts). This amplifier delivers 1/f phase noise -155dBc/Hz @ 1KHz and -165dBc/Hz @ 100 KHz offset. Amplifier is in a hermetically sealed package with SMA (f) connectors. Internal voltage regulator is provided for +12 to +15 V operation.

40 GHz Ultra Low Phase Noise Amplifier



This low phase noise Ka band amplifier, model AML4040PNB1511 operates at 40.0 GHz and provides Psat of +27dBm typical. This amplifier delivers 1/f phase noise of -146dBc/Hz typical @ 1KHz offset.

Dimensions are 1.16”L x 2.10”W x 0.41”H. Amplifier is hermetically sealed and operates over -40°C to +85°C temperature range.

Low Noise Surface Mount Amplifier



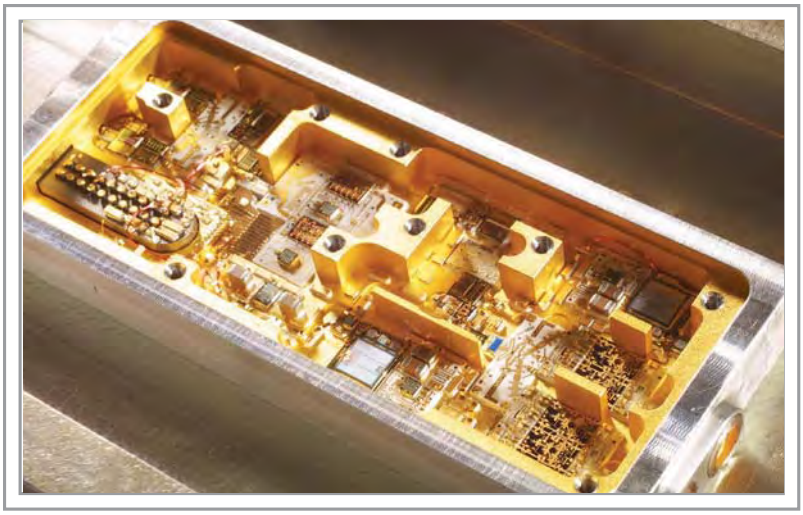
AML55L2511-S is a 5.4 - 5.9 GHz surface mount low noise amplifier with 25 dB gain and noise figure below <1dB. Flatness over frequency is ±0.2dB typical and output P1dB is +10dBm min. Amplifier is hermetically sealed with -54 to +85C operating temperature range. Package is SMT08 (0.45" x 0.45" x 0.17"). Amplifier operates with +5VDC and draws 90 mA nom current. Other frequency options are available up to 6 GHz with noise figure < 1dB.

Medium Power X Band Surface Mount Amplifier



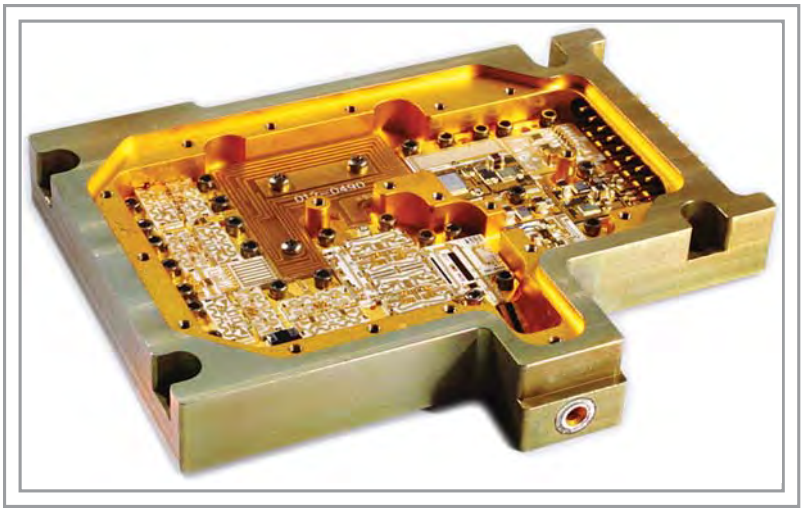
AML612P2011-S is a two-stage medium power amplifier from Microsemi's family of X band surface mount amplifiers. Small Signal Gain is 18 dB with flatness over frequency of ±1dB. Output P1dB is +27dBm min. In/Out VSWR is 1.8:1 nom. This amplifier operates with regulated +9VDC and draws 350 mA nom current. Package (SMTH2) is hermetically sealed for -54 to +85C operating temperature range. Dimensions are 0.73" x 0.56" x 0.18". Other gain, noise figure and power options are available up to 12 GHz.

Dual Input Dual Output High Power Assembly



Microsemi designs and manufactures this Integrated Multifunction Assembly (IMA) comprising of low noise and power amplifiers, digitally controlled phase shifters, filter, equalizer and variable attenuators. It is gain compensated over the full military temperature range. DC conditioning and TTL compatible control attributes are included. The functional elements are combined within a high-density package tailored to meet customer's exacting electrical and mechanical requirements. Product configurations are available covering the complete EW frequency spectrum.

S Band High Power Low Phase Noise Assembly



This Integrated Microwave Assembly is an example of Microsemi's capabilities to design, test and deliver physically small multi-functional assemblies. These application specific designs offer the system designer complex functions housed in a high density package. The illustrated product comprises of a 4-Watt low residual phase noise amplifier, a digitally controlled attenuator, detector, drain pulser switch function, power supply conditioning and gain temperature compensation. Performance characteristics of this design include fast rise/fall time(<50ns) and minimum pulse droop (<0.5dB). Product is hermetically sealed and fully supports wide temperature operation in military environments.

Surface Mount Amplifiers (0.1 - 18.0 GHz)

Low Noise and Medium Power Amplifiers (0.01 - 60.0 GHz)

- Narrow Band Amplifiers
- Octave Band Amplifiers
- Multi-Octave Band Amplifiers

Low Phase Noise Amplifiers (0.5 - 40.0 GHz)

Limiting Amplifiers (1.0 - 20.0 GHz)

Equalizer Amplifiers (2.0 - 18.0 GHz)

Multipliers (2.5 - 25.0 GHz)

Variable Gain Amplifiers (0.5 - 20.0 GHz)

High Dynamic Range Amplifiers (0.01 - 18.0 GHz)

High Power Amplifiers (0.02 - 40.0 GHz)

- Narrow Band Series up to 40 Watts
- Wide Band Series up to 60 Watts
- High Power Rack Mount & TWT Replacements up to 300 Watts
- Gallium Nitride (GaN) Amplifiers up to 100 Watts

Multi-Function Assemblies



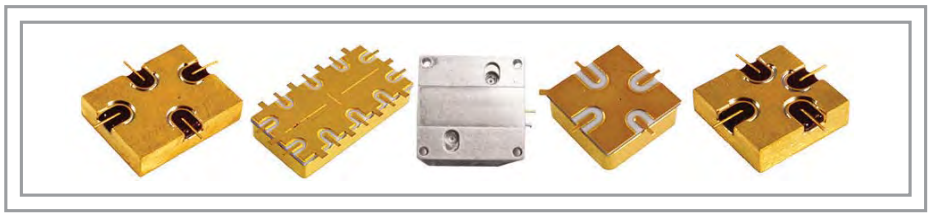
SMT and SMP Amplifiers

Microsemi's surface mount amplifiers support the need for physically smaller systems by eliminating cable interconnects and increasing packing densities. Low noise and medium power gain blocks can be conveniently cascaded in a microstrip transmission line environment. We also offer a unique approach to manage higher power and high frequency (up to 12 GHz) applications with our "SMP Plug-in" modules. Please contact the factory for your custom surface mount amplifier requirements.

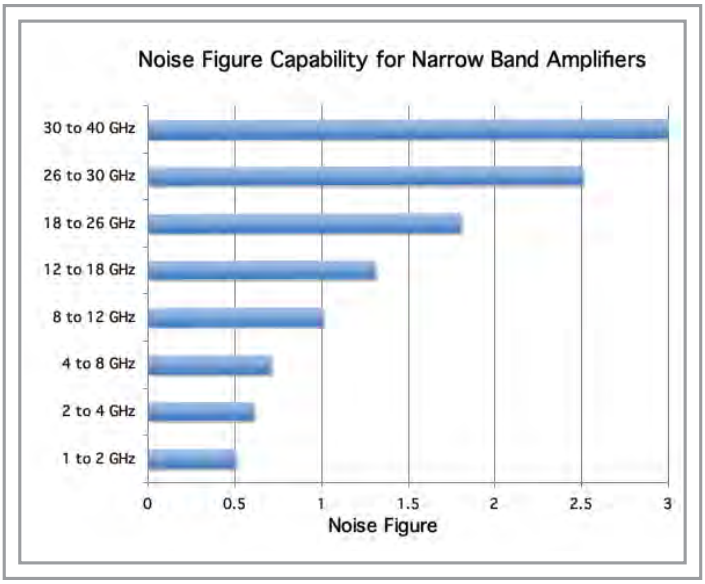
Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
0.1 to 2.0 GHz									
AML012L1411-S	0.1 - 2.0	14	0.5	1.5**	13	23	2.0:1	5V/60mA	SMT08
AML012L2811-S	0.1 - 2.0	28	0.8	1.5**	14	24	2.0:1	5V/150mA	SMT-2
AML012P1211-S	0.1 - 2.0	12	1	2.8**	21	36	2.0:1	9V/150mA	SMT08
AML012P2611-S	0.1 - 2.0	26	1	1.5**	21	36	2.0:1	9V/215mA	SMT-2
0.1 to 3.0 GHz									
AML013P1011-S	0.1 - 3.0	11	1	4.5**	24	38	1.8:1	12V/200mA*	SMT08
AML013P1812-S	0.1 - 3.0	18	1	5.0**	27	39	1.8:1	12V/320mA*	SMT08
0.5 to 6.0 GHz									
AML052P2011-S	0.5 - 2.0	22	1	4	22	36	2.0:1	9V/250mA	SMT08
AML052P2411-S	0.5 - 2.0	24	1.5	5	24	34	2.0:1	9V/320mA	SMT08
AML053P1811-S	0.5 - 3.0	18	1	5	17	27	2.2:1	12V/100mA*	SMT08
AML053P1012-S	0.5 - 3.0	11	1	5	27	40	1.8:1	12V/330mA*	SMT08
AML056L2811-S	0.5 - 6.0	28	1.5	2.3	5	12	2.0:1	5V/150mA	SMT08
AML056L2812-S	0.5 - 6.0	28	1.5	1.6	5	12	2.0:1	5V/150mA	SMT08
1.0 to 5.0 GHz									
AML12P1111-S	1.0 - 2.5	11	1	4	22	31	1.8:1	9V/150mA	SMT08
AML12P1112-S	1.0 - 2.5	11	1	5	26	35	1.8:1	9V/280mA	SMT08
AML11L2511-S	1.4 - 1.7	25	0.5	0.8	10	20	1.6:1	5V/90mA	SMT08
AML22L2511-S	2.3 - 2.5	25	0.5	0.8	10	20	1.6:1	5V/90mA	SMT08
AML23L2511-S	2.8 - 3.1	24	0.5	0.9	10	20	1.6:1	5V/90mA	SMT08
AML33L2511-S	3.1 - 3.7	24	0.75	1	10	20	1.6:1	5V/90mA	SMT08
AML34L2511-S	3.7 - 4.2	24	0.75	1	10	20	1.6:1	5V/90mA	SMT08
AML45L2511-S	4.4 - 5.0	24	0.75	1	10	20	1.6:1	5V/90mA	SMT08
AML55L2511-S	5.4 - 5.9	23	0.75	1.1	10	20	1.6:1	5V/90mA	SMT08

*Above 500MHz
**Includes internal voltage regulator
Products listed above without ** require regulated DC Supply

SMT and SMP Amplifiers



Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
2.0 to 6.0 GHz									
AML26L1411-S	2.0 - 6.0	14	1	2.5	10	20	1.6:1	5V/50mA	SMT-2
AML26L2811-S	2.0 - 6.0	27	1	2.5	10	20	1.6:1	5V/90mA	SMT08
AML26L1412-S	2.0 - 6.0	14	1	3	15	25	1.8:1	5V/70mA	SMT-2
AML26L2812-S	2.0 - 6.0	27	1	3	15	25	1.8:1	5V/100mA	SMT-2
AML26P1811-S	2.0 - 6.0	18	1	6	21	31	1.8:1	9V/350mA	SMT-2
AML26P1111-S	2.0 - 6.0	11	1	4	22	32	1.8:1	12V/120mA*	SMT-2
AML26P0811-S	2.0 - 6.0	8	1.5	6	23	32	1.8:1	9V/150mA	SMT08
AML26P1112-S	2.0 - 6.0	11	0.5	5	23	33	1.8:1	9V/150mA	SMT08
AML26P2411-S	2.0 - 6.0	24	1	3	24	33	1.8:1	9V/200mA	SMT-2
AML26P1711-S	2.0 - 6.0	17	1	6	25	33	1.8:1	9V/480mA	SMT-2
AML26P1211-S	2.0 - 6.0	11	1	6	26	36	1.8:1	12V/250mA*	SMT-2
6.0 to 12.0 GHz									
AML69L1212-S	6.0 - 9.0	10	0.5	2.5	15	25	1.8:1	5V/70mA	SMTH1
AML69P1011-S	6.0 - 9.0	10	0.5	5	25	35	1.8:1	9V/150mA	SMTH1
AML612L2211-S	6.0 - 12.0	22	1	3	10	20	1.8:1	5V/80mA	SMTH2
AML612L2212-S	6.0 - 12.0	20	1	3	15	25	1.8:1	5V/90mA	SMTH2
AML612P2211-S	6.0 - 12.0	21	1	3.5	20	30	1.8:1	9V/150mA	SMTH2
AML612P2311-S	6.0 - 12.0	20	1	3.5	25	35	1.8:1	9V/250mA	SMTH2
AML612P2011-S	6.0 - 12.0	18	1	5	27	37	1.8:1	9V/350mA	SMTH2
6.0 to 18.0 GHz									
AML618L1811-S	6.0 - 18.0	18	1	3	10	20	1.8:1	12V/120mA*	SMP2
AML618L1511-S	6.0 - 18.0	15	1	3.5	17	27	1.8:1	12V/150mA*	SMP2
AML618P1511-S	6.0 - 18.0	16	1	5.5	25	35	1.8:1	12V/230mA*	SMP2
AML618P1211-S	6.0 - 18.0	12	1	6.5	27	37	1.8:1	12V/450mA*	SMP2
AML618P1211-S	6.0 - 18.0	12	1	6.5	27	37	1.8:1	12V/450mA*	SMP2



Narrow Band

Connectorized Microwave Amplifiers

Microsemi's narrow band amplifier series exhibits outstanding performance when compared with alternate topologies implemented in octave or multi-octave amplifiers. Proven designs with noise figures below 0.5 dB, output P-1dB in excess of several watts and excellent linearity are offered, without compromising stability, VSWR or passband ripple.

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
0.5 - 1.1 GHz									
JCA01-2010	0.5 - 0.6	20	0.5	1	10	20	2.0:1	60	LCFB1
JCA01-3010	0.5 - 0.6	30	0.5	0.9	10	20	2.0:1	90	FB2
JCA01-2033	0.7 - 0.8	30	1	0.5	10	20	2.0:1	200	FB2
JCA01-3032	0.7 - 0.9	33	0.5	0.9	10	20	2.0:1	90	FB2
JCA01-3014	0.9 - 1.0	30	0.5	0.9	10	20	2.0:1	90	FB2
JCA12-3010	1.0 - 1.1	33	0.5	0.8	10	20	2.0:1	120	FB2
0.95 - 1.25 GHz									
AML091L1701	0.95 - 1.25	17	0.5	0.6	10	20	1.5:1	75	SPN1
AML11L1701	0.95 - 1.25	17	0.5	0.8	10	20	1.8:1	50	L2
AML091L2801	0.95 - 1.25	28	0.5	0.8	10	20	1.5:1	120	SPN1
AML11L3401	0.95 - 1.25	34	0.75	1	10	20	1.8:1	80	L3
AML11L5001	0.95 - 1.25	50	1	1.1	10	20	1.8:1	120	L4
AML091L2802	0.95 - 1.25	28	0.5	0.8	15	25	1.5:1	150	SPN1
AML11P3201	0.95 - 1.25	32	0.75	1	20	30	1.8:1	120	L3
AML11P5001	0.95 - 1.25	50	1	1	20	30	1.8:1	160	L4
BR1000124	1.0 - 1.2	24	0.5	5	22	40	2.0:1	300	C3
AML11P1501	0.95 - 1.25	15	0.5	3	25	35	1.8:1	150	L2
AML11P3202	0.95 - 1.25	32	1	1.3	25	35	1.8:1	200	L3
AML11P4801	0.95 - 1.25	48	1.5	1.3	25	35	1.8:1	280	L4
AML11P1502	0.95 - 1.25	15	0.5	3	27	37	1.8:1	300	L2
AML11P3203	0.95 - 1.25	32	1	1.5	27	37	1.8:1	360	L3

-Specifications are at +25°C
-Operating temperature range is -20 to +70°C
-Operational range of -54 to +85°C is available

-DC Voltage is +12 to +15 VDC unless stated otherwise
-Specifications are subject to change

† Gain specified as min to max
*Power specified as Psat

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AML11P4802	0.95 - 1.25	48	1.5	1.5	27	37	1.8:1	410	L4
AML11P1401	0.95 - 1.25	14	0.5	3.5	30	40	1.8:1	500	L2
AML11P3001	0.95 - 1.25	30	1	2	30	40	1.8:1	600	L3
AML11P4601	0.95 - 1.25	46	1.5	1.5	30	40	1.8:1	650	L4
1.2 - 1.4 GHz									
AML11L1705	1.2 - 1.4	17	0.5	0.7	10	20	1.5:1	75	LS2
AML11L1702	1.2 - 1.4	17	0.5	0.8	10	20	1.8:1	50	L2
AML11L2801	1.2 - 1.4	28	0.5	0.7	10	20	1.5:1	120	LS2
AML11L3402	1.2 - 1.4	34	0.75	0.8	10	20	1.8:1	80	L3
AML11L5002	1.2 - 1.4	50	1	0.8	10	20	1.8:1	120	L4
AML12L2901	1.2 - 1.4	28 - 30	0.25	1	10	20	1.5:1	120	L3
AML12L1901	1.2 - 1.3	19	0.25	1	15	25	1.8:1	70	L2
AML11L2802	1.2 - 1.4	28	0.5	0.7	15	25	1.5:1	150	LS2
AML11P3204	1.2 - 1.4	32	0.75	1	20	30	1.8:1	120	L3
AML11P5002	1.2 - 1.4	50	1	1	20	30	1.8:1	160	L4
AML11P1503	1.2 - 1.4	15	0.4	3	25	35	1.8:1	150	L2
AML11L3501	1.0 - 1.4	35	1	5	25	35	2.0:1	300	modK3
AML11L3502	1.0 - 1.4	35-40	1	5	25	35	1.7:1	250	L3
AML11P3205	1.2 - 1.4	32	0.75	1.3	25	35	1.8:1	200	L3
AML11P4803	1.2 - 1.4	48	1	1.3	25	35	1.8:1	280	L4
AML11P1504	1.2 - 1.4	15	0.4	3	27	37	1.8:1	300	L2
AML11P3206	1.2 - 1.4	32	0.75	1.5	27	37	1.8:1	360	L3
AML11P4804	1.2 - 1.4	48	1	1.5	27	37	1.8:1	410	L4
AML11P1402	1.2 - 1.4	14	0.5	3.5	30	40	1.8:1	500	L2
AML11P3002	1.2 - 1.4	30	0.75	2	30	40	1.8:1	600	L3
AML11P4602	1.2 - 1.4	46	1	1.5	30	40	1.8:1	650	L4
1.1 - 1.7 GHz									
JCA12-2052	1.0 - 1.5	24	0.5	0.9	10	20	2.0:1	60	LCFB1
JCA12-3052	1.0 - 1.5	35	0.5	0.8	10	20	2.0:1	90	FB2
AML11L6401	1.1 - 1.7	64	1	1.1	10	20	1.8:1	240	L5
AML11L6001	1.2 - 1.6	60	1	0.9	10	20	1.8:1	160	L5
AML12L3701	1.2 - 1.6	37	0.5	0.9	10	20	2.0:1	100	L3
JCA12-1110LN	1.2 - 1.6	25	0.5	1.1	10	20	2.0:1	100	LCFB1
JCA12-2006	1.0 - 1.5	20	1	5	33	41	2.0:1	1.3 A	FB4
JCA12-PR02	1.0 - 1.5	30	1	5	33	41	2.0:1	1.5 A	FB4 SPCL

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
1.4 - 1.7 GHz									
JCA12-4044	1.4 - 1.6	44	0.5	0.8	10	20	2.0:1	120	FB2
AML11L1706	1.4 - 1.7	17	0.5	0.7	10	20	1.5:1	75	LS2
AML11L2803	1.4 - 1.7	28	0.5	0.8	10	20	1.5:1	120	LS2
AML11L2804	1.4 - 1.7	28	0.5	1	15	25	1.8:1	150	LS2
AML11L5006	1.45 - 1.65	50	0.75	0.9	15	25	1.5:1	170	L4
1.5 - 1.7 GHz									
AML11L2201	1.5 - 1.7	22	0.5	0.9	10	20	1.8:1	80	LS2
JCA12-3035	1.5 - 1.7	33	0.5	0.8	10	20	2.0:1	90	FB2
JCA12-4045	1.5 - 1.7	44	0.5	0.8	10	20	2.0:1	120	FB2
1.6 - 1.7 GHz									
AML11L3405	1.6 - 1.7	34	0.5	1	10	20	1.8:1	80	L3
AML11L4503	1.6 - 1.7	45	0.5	1	10	20	1.8:1	120	L4
AML11L5005	1.6 - 1.7	52	0.5	1	10	20	1.8:1	120	L4
AML11L6201	1.6 - 1.7	60-62	1	1	10	20	1.5:1	200	L5
1.6 - 1.8 GHz									
AML11L1703	1.6 - 1.8	16	0.5	0.9	10	20	1.8:1	50	L2
AML11L3403	1.6 - 1.8	34	0.75	0.9	10	20	1.8:1	80	L3
AML11L5003	1.6 - 1.8	50	1	0.9	10	20	1.8:1	120	L4
AML11P3207	1.6 - 1.8	32	0.5	1.1	20	30	1.8:1	120	L3
AML11P5003	1.6 - 1.8	50	1	1	20	30	1.8:1	160	L4
AML11P1505	1.6 - 1.8	15	0.5	4	25	35	1.8:1	150	L2
AML11P3208	1.6 - 1.8	32	0.75	1.5	25	35	1.8:1	200	L3
AML11P4805	1.6 - 1.8	48	1	1.5	25	35	1.8:1	280	L4
AML11P1506	1.6 - 1.8	15	0.25	4	27	37	1.8:1	300	L2
AML11P3209	1.6 - 1.8	32	0.75	1.5	27	37	1.8:1	360	L3
AML11P4806	1.6 - 1.8	48	1	1.5	27	37	1.8:1	410	L4
AML11P1403	1.6 - 1.8	14	0.5	4	30	40	1.8:1	500	L2
AML11P3101	1.6 - 1.8	31	0.75	3	30	40	1.8:1	600	L3
AML11P4603	1.6 - 1.8	46	1	2	30	40	1.8:1	650	L4
1.85 - 1.95 GHz									
AML11L1704	1.85 - 1.95	16	0.5	0.9	10	20	1.5:1	50	L2
AML11L3404	1.85 - 1.95	34	0.75	0.9	10	20	1.5:1	80	L3
AML11L5004	1.85 - 1.95	50	1	0.9	10	20	1.5:1	120	L4

-Specifications are at +25°C
-Operating temperature range is -20 to +70°C
-Operational range of -54 to +85°C is available

-DC Voltage is +12 to +15 VDC unless stated otherwise
-Specifications are subject to change

† Gain specified as min to max
*Power specified as Psat

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AML11P5004	1.85 - 1.95	50	1	1	20	30	1.5:1	160	L3
AML11P1507	1.85 - 1.95	15	0.5	4	25	35	1.5:1	150	L2
AML11P4807	1.85 - 1.95	48	1	1.5	25	35	1.5:1	280	L4
AML11P1508	1.85 - 1.95	15	0.5	4	27	37	1.5:1	300	L2
AML11P4808	1.85 - 1.95	48	1	1.5	27	37	1.5:1	410	L4
AML11P1404	1.85 - 1.95	14	0.5	4	30	40	1.5:1	500	L2
AML11P3102	1.85 - 1.95	31	0.75	3	30	40	1.5:1	600	L3
AML11P4604	1.85 - 1.95	46	1	2	30	40	1.5:1	650	L4
1.4 - 2.4 GHz									
AML12L1501	1.4 - 2.4	15	0.5	1	10	20	1.8:1	50	L2
AML12L3001	1.4 - 2.4	30	1	1	10	20	1.8:1	80	L3
AML12L4501	1.4 - 2.4	45	1.5	1	10	20	1.8:1	120	L4
JCA12-4019	1.9 - 2.0	40	0.5	0.8	10	20	2.0:1	120	FB2
AML12L1502	1.4 - 2.4	15	0.5	1	15	23	1.8:1	60	L2
AML12L3002	1.4 - 2.4	30	1	1.3	15	23	1.8:1	100	L3
AML12L3501	1.4 - 2.4	35	1	1	15	24	2.0:1	90	L3
AML12L4502	1.4 - 2.4	45	1.5	1	15	23	1.8:1	140	L4
JCA12-4103	1.4 - 2.4	42	1	3	17	27	2.0:1	350	FB2
AML12P1402	1.4 - 2.4	12	0.5	3	18	28	1.8:1	100	L2
AML12P1201	1.4 - 2.4	12	0.5	3	20	30	1.8:1	90	L2
AML12P2601	1.4 - 2.4	26	1	1.2	20	30	1.8:1	130	L3
AML12P4101	1.4 - 2.4	41	1.5	1.2	20	30	1.8:1	170	L4
JCA12-3105	1.4 - 2.4	32	1	3.5	23	33	2.0:1	575	FB2
AML12P1503	1.4 - 2.4	15	0.5	3	25	35	1.8:1	150	L2
AML12P3001	1.4 - 2.4	30	1	1.6	25	35	1.8:1	200	L3
AML12P4501	1.4 - 2.4	45	1.5	1	25	35	1.8:1	250	L4
AML12P2702	1.4 - 2.4	26-28	0.5	4	26	34	1.5:1	400	L3
AML12P1403	1.4 - 2.4	14	0.5	3	28	38	1.8:1	300	L2
AML12P3002	1.4 - 2.4	30	1	1.6	28	38	1.8:1	400	L3
AML12P4502	1.4 - 2.4	45	1.5	1.3	28	38	1.8:1	450	L4
AML12P1202	1.4 - 2.4	12	0.5	3	30	40	1.8:1	500	L2
AML12P2701	1.4 - 2.4	27	1	2.5	30	40	1.8:1	650	L3
AML12P4201	1.4 - 2.4	42	1.5	1.5	30	40	1.8:1	700	L4
AML12P4402	1.9 - 2.4	44	±1.0	4	30	42	2.0:1	1000	L5
JCA12-PR022	1.5 - 2.0	30	1	5	33	41	2.0:1	1.5 A	FB5 SPCL

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
2.0 - 2.5 GHz									
JCA23-3020	2.0 - 2.2	34	0.5	0.8	10	20	2.0:1	90	FB2
JCA23-2052	2.0 - 2.5	24	0.5	0.9	10	20	2.0:1	100	LCFB1
ALN2520-28-10	2.0 - 2.5	28	0.5	1.5	10	20	2.0:1	175	STC-3
JCA23-3051	2.0 - 2.5	35	0.5	1	10	20	2.0:1	90	FB2
JCA23-3052	2.0 - 2.5	35	0.5	0.8	10	20	2.0:1	90	FB2
JCA23-4052	2.0 - 2.5	42	0.75	0.8	10	20	2.0:1	120	FB2
JCA23-501	2.2 - 2.3	50	0.5	0.8	10	20	2.0:1	200	FB2
ALN2224-15-10	2.2 - 2.4	15	0.5	1.5	10	20	1.8:1	80	STC-1
AML22L1701	2.2 - 2.4	16	0.5	0.7	10	20	1.5:1	75	LS2
AML22L1601	2.2 - 2.4	16	0.5	1	10	20	1.5:1	50	C2
AML22L2801	2.2 - 2.4	28	0.5	0.7	10	20	1.5:1	120	LS2
AML22L3201	2.2 - 2.4	32	0.75	1	10	20	1.5:1	80	C3
JCA23-3022	2.2 - 2.4	34	0.5	0.8	10	20	2.0:1	90	FB2
AML22L4601	2.2 - 2.4	46	1	1	10	20	1.5:1	120	C4
AML22L1602	2.2 - 2.4	16	0.5	1.2	15	23	1.5:1	60	C2
AML22L2802	2.2 - 2.4	28	0.5	0.7	15	25	1.5:1	150	LS2
AML22L3011	2.2 - 2.4	28	0.5	2	15	25	1.5:1	150	C3
AML22L3001	2.2 - 2.4	30	0.75	1	15	23	1.5:1	100	C3
AML22L4801	2.2 - 2.4	48	1	1	15	23	1.5:1	140	C4
AML22P1101	2.2 - 2.4	11	0.5	3	20	30	1.5:1	90	C2
AML22P2701	2.2 - 2.4	27	0.75	1.5	20	30	1.5:1	130	C3
AML22P4701	2.2 - 2.4	47	1	1.1	20	30	1.5:1	170	C4
AML22P1501	2.2 - 2.4	15	0.5	3	25	35	1.5:1	150	C2
AML22P3101	2.2 - 2.4	31	0.75	1.5	25	35	1.5:1	200	C3
AML22P4401	2.2 - 2.4	44	1	1.5	25	35	1.5:1	250	C4
AML22P1401	2.2 - 2.4	14	0.5	3	28	38	1.5:1	300	C2
AML22P3001	2.2 - 2.4	30	0.75	1.5	28	38	1.5:1	400	C3
AML22P4501	2.2 - 2.4	45	1	1.2	28	38	1.5:1	450	C4
JCA23-2107	2.1 - 3.5	23	0.5	3.8	30	40	2.0:1	600	C3
AML22P1201	2.2 - 2.4	12	0.5	4	30	40	1.5:1	500	C2
AML22P2702	2.2 - 2.4	27	0.75	3.5	30	40	1.5:1	650	C3
AML22P4201	2.2 - 2.4	42	1	1.5	30	40	1.5:1	700	C4
JCA23-PR02	2.0 - 2.5	30	1	5	33	41	2.0:1	1.6 A	C4

-Specifications are at +25°C
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† Gain specified as min to max
*Power specified as Psat

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
2.2 - 2.6 GHz									
AML22L3101	2.3 - 2.5	29-31	0.5	1	5	15	1.5:1	100	SP3
AML22L3502	2.2 - 2.4	35	0.5	1	10	20	1.8:1	100	L3
AML22L3503	2.2 - 2.4	35	0.5	3	10	20	1.8:1	100	L3
AML22L1701	2.3 - 2.5	15	0.5	0.7	10	20	1.5:1	75	LS2
AML22L2801	2.3 - 2.5	28	0.5	0.7	10	20	1.5:1	120	LS2
JCA23-3023	2.3 - 2.5	34	0.5	0.8	10	20	2.0:1	90	FB2
AML22L4401	2.3 - 2.5	45	0.75	0.7	10	20	1.5:1	150	LS3
AML22L2501	2.4 - 2.6	25	0.5	0.9	10	20	2.0:1	80	LS2
JCA23-3024	2.4 - 2.6	34	0.5	0.8	10	20	2.0:1	90	FB2
JCA23-4024	2.4 - 2.6	45	0.5	0.8	10	20	2.0:1	120	FB2
AML22L2802	2.3 - 2.5	28	0.75	0.7	15	25	1.5:1	150	LS2
AML22L3501	2.2 - 2.4	35	1	1	15	24	1.5:1	90	L3
AML22L5601	2.2 - 2.8	55-60	1.5	1.3	15	25	1:5:1	160	L4
AML22P3501	2.3 - 2.5	35	1	3	33	42	1.8:1	1130	C5
2.5 - 2.7 GHz									
AML22L1703	2.5 - 2.7	15	0.5	0.7	10	20	1.5:1	75	LS2
AML22L1501	2.5 - 2.7	15	0.5	1.2	10	20	1.5:1	50	C2
AML22L2805	2.5 - 2.7	28	0.5	0.7	10	20	1.5:1	120	LS2
AML22L3002	2.5 - 2.7	30	0.75	1.2	10	20	1.5:1	80	C3
AML22L4403	2.5 - 2.7	45	0.75	0.7	10	20	1.5:1	150	LS3
AML22L4501	2.5 - 2.7	45	1	1.2	10	20	1.5:1	120	C4
AML22L1502	2.5 - 2.7	15	0.5	1.3	15	23	1.5:1	60	C2
AML22L2806	2.5 - 2.7	28	0.75	0.7	15	25	1.5:1	150	LS2
AML22L3003	2.5 - 2.7	30	0.75	1.2	15	23	1.5:1	100	C3
AML22L4502	2.5 - 2.7	45	1	1.2	15	23	1.5:1	140	C4
AML22P1202	2.5 - 2.7	12	0.5	3	20	30	1.5:1	90	C2
AML22P2601	2.5 - 2.7	26	0.75	1.6	20	30	1.5:1	130	C3
AML22P4101	2.5 - 2.7	41	1	1.3	20	30	1.5:1	170	C4
AML22P1502	2.5 - 2.7	15	0.5	3	25	35	1.5:1	150	C2
AML22P3002	2.5 - 2.7	30	0.75	1.6	25	35	1.5:1	200	C3
AML22P4502	2.5 - 2.7	45	1	1.3	25	35	1.5:1	250	C4
AML22P1402	2.5 - 2.7	14	0.5	3	28	38	1.5:1	300	C2
AML22P3003	2.5 - 2.7	30	0.75	1.6	28	38	1.5:1	400	C3
AML22P4503	2.5 - 2.7	45	1	1.3	28	38	1.5:1	450	C4
AML22P1203	2.5 - 2.7	12	0.5	3	30	40	1.5:1	500	C2
AML22P2703	2.5 - 2.7	27	0.75	2.5	30	40	1.5:1	650	C3
AML22P4202	2.5 - 2.7	42	1	2	30	40	1.5:1	700	C4

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
2.6 - 3.2 GHz									
AML22L2203	2.7 - 2.9	24	0.5	0.7	10	20	1.5:1	75	LS2
JCA23-2001	2.7 - 2.9	28	0.5	0.5	10	20	2.0:1	150	FB2
JCA23-306	2.7 - 2.9	30	0.5	1.2	10	20	2.0:1	80	FB2
AML22L3603	2.7 - 2.9	36	0.5	0.7	10	20	1.5:1	130	LS2
AML22L4404	2.7 - 2.9	44	0.75	0.7	10	20	1.5:1	150	LS3
AML23L3001	2.7 - 3.1	30	0.5	1.1	10	20	1.5:1	100	C3
AML22L2202	2.8 - 3.1	22	0.5	0.7	10	20	1.5:1	75	LS2
AML22L3604	2.8 - 3.1	36	0.5	0.7	10	20	1.5:1	130	LS3
AML22L4405	2.8 - 3.1	44	1	0.7	10	20	1.5:1	150	LS3
AML22L3601	2.7 - 2.9	36	0.5	0.5	15	25	1.5:1	150	LS2
AML22L3602	2.7 - 2.9	36	0.5	0.7	15	25	1.5:1	150	LS2
AML22L3605	2.8 - 3.1	36	0.5	0.7	15	25	1.5:1	150	LS3
AML23L2802	2.9 - 3.6	28	1.5	0.6	15	25	1.5:1	120	B2
AML23P2701	2.7 - 3.1	27.5-29.5	0.5	1.3	21	31	1.5:1	160	C3
AML23P2501	2.6 - 3.1	25-27	0.25	4.5	24	35	1.7:1	300	C3
AML23P2801	2.8 - 3.2	28	1	3.5	30	40	1.8:1	550	C3
2.5 - 3.5 GHz									
JCA23-3054	2.5 - 3.0	35	0.5	1.1	10	20	2.0:1	90	FB2
AML23L3002	2.5 - 3.5	30	0.5	1.1	10	20	1.5:1	100	C3
AML23P1901	2.5 - 3.5	17.5-18.5	0.5	4.5	20	30	2.0:1	100	C2
JCA23-PR022	2.5 - 3.0	30	0.5	5	33	41	2.0:1	1.5	C4
JCA23-PR055	2.5 - 3.0	30	0.5	5	37	45	2.0:1	3.2	22421
3.1 - 3.4 GHz									
AML33L1601	3.1 - 3.4	16	1.25	0.6	8	18	2.2:1	100	C2
AML33L1501	3.1 - 3.4	15	0.5	1.4	10	20	1.5:1	50	C2
AML33L1701	3.1 - 3.6	17	0.5	1.5	10	20	1.5:1	50	C2
AML33L3001	3.1 - 3.4	30	0.75	1.4	10	20	1.5:1	80	C3
AML33L4501	3.1 - 3.4	45	1	1.4	10	20	1.5:1	120	C4
AML33L1502	3.1 - 3.4	15	0.5	1.5	15	23	1.5:1	60	C2
AML33L3002	3.1 - 3.4	30	0.75	1.4	15	23	1.5:1	100	C3
AML33L4502	3.1 - 3.4	45	1	1.4	15	23	1.5:1	140	C4
AML33L3201	3.1 - 3.4	32	1	0.6	18	28	1.8:1	150	C3
AML33P1101	3.1 - 3.4	12	0.5	3	20	30	1.5:1	90	C2

-Specifications are at +25°C
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-DC Voltage is +12 to +15 VDC unless stated otherwise
-Specifications are subject to change

† Gain specified as min to max
*Power specified as Psat

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AML33L4801	3.1 - 3.4	48	1.25	0.7	20	28	1.8:1	250	C4
AML33P2601	3.1 - 3.4	26	0.75	1.8	20	30	1.5:1	130	C3
AML33L4001	3.0 - 3.5	40	1.5	5	20	30	2.0:1	275	C3
AML33P4101	3.1 - 3.4	41	1	1.4	20	30	1.5:1	170	C4
AML33P1501	3.1 - 3.4	15	0.5	3	25	35	1.5:1	150	C2
AML33P3001	3.1 - 3.4	30	0.75	1.5	25	35	1.5:1	200	C3
AML33P4501	3.1 - 3.4	45	1	1.5	25	35	1.5:1	250	C4
AML33P1401	3.1 - 3.4	14	0.5	3	28	38	1.5:1	300	C2
AML33P3002	3.1 - 3.4	30	0.75	1.8	28	38	1.5:1	400	C3
AML33P4502	3.1 - 3.4	45	1	1.5	28	38	1.5:1	450	C4
AML33P1201	3.1 - 3.4	12	0.5	3.5	30	40	1.5:1	500	C2
AML33P2701	3.1 - 3.4	27	0.75	3	30	40	1.5:1	650	C3
AML33P4201	3.1 - 3.4	42	1	2.5	30	40	1.5:1	700	C4
3.4 - 4.2 GHz									
AML34L3001	3.4 - 4.2	30	0.75	0.8	10	20	1.5:1	120	LS2
AML34L4401	3.4 - 4.2	44	1	0.8	10	20	1.5:1	160	LS3
AML34L2101	3.4 - 4.2	20-22	0.4	1.3	10	20	1.4:1	120	K3
AML34P1402	3.4 - 4.2	14-16	0.5	2.5	23	33	1.5:1	230	C2
AML34P3002	3.4 - 4.2	31-33	0.5	2	33	43	1.4:1	1400	C5
3.7 - 4.2 GHz									
AML34L1403	3.7 - 4.2	14	0.5	0.8	10	20	1.5:1	75	LS2
AML34L1401	3.7 - 4.2	14	0.5	1.4	10	20	1.5:1	50	C2
AML34L3002	3.7 - 4.2	30	0.75	0.7	10	20	1.5:1	120	LS2
AML34L2801	3.7 - 4.2	28	1	1.4	10	20	1.5:1	90	C3
AML34L4402	3.7 - 4.2	44	1	0.7	10	20	1.5:1	150	LS3
AML34L4201	3.7 - 4.2	42	1.5	1.4	10	20	1.5:1	130	C4
AML34L1402	3.7 - 4.2	14	0.5	1.6	15	25	1.5:1	80	C2
AML34L3003	3.7 - 4.2	30	0.75	0.7	15	25	1.5:1	150	LS2
AML34L2802	3.7 - 4.2	28	1	1.4	15	25	1.5:1	120	C3
AML34L4301	3.7 - 4.2	43	1.5	1.4	15	25	1.5:1	150	C4
AML34L1101	3.7 - 4.2	11	0.5	2	20	30	1.5:1	90	C2
AML34L2501	3.7 - 4.2	25	1	1.5	20	30	1.5:1	130	C3
AML34L3901	3.7 - 4.2	39	1.5	1.3	20	30	1.5:1	170	C4
AML34P1401	3.7 - 4.2	14	0.5	3	25	35	1.5:1	150	C2
AML34P2801	3.7 - 4.2	28	1	1.6	25	35	1.5:1	200	C3
AML34P4202	3.7 - 4.2	42	1.5	1.4	25	35	1.5:1	250	C4
AML34P1301	3.7 - 4.2	13	0.5	2.2	28	38	1.5:1	300	C2

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AML34P2701	3.7 - 4.2	27	1	1.8	28	38	1.5:1	450	C3
AML34P4101	3.7 - 4.2	41	1.5	1.4	28	38	1.5:1	500	C4
AML34P1101	3.7 - 4.2	11	0.5	2.8	30	40	1.5:1	500	C2
AML34P2401	3.7 - 4.2	24	1	2	30	40	1.5:1	650	C3
AML34P3801	3.7 - 4.2	38	1.5	1.6	30	40	1.5:1	725	C5
3.0 - 5.9 GHz									
AML35L2002	3.0 - 5.0	20	1	2.2	10	20	2.0:1	100	modK3
JCA35-3103	3.4 - 5.9	34	1	2.5	17	27	2.0:1	275	C3
JCA35-3105	3.4 - 5.9	32	1	2.8	23	33	2.0:1	500	STC-4
4.4 - 5.0 GHz									
AML45L1401	4.4 - 5.0	14	0.5	1.6	10	20	1.5:1	50	C2
AML45L2802	4.4 - 5.0	28	1	0.7	10	18	2.0:1	100	C3
AML45L2801	4.4 - 5.0	28	0.75	1.6	10	20	1.5:1	90	C3
AML45L4201	4.4 - 5.0	42	1	1.6	10	20	1.5:1	130	C4
AML45L2202	4.4 - 5.0	20-23	0.5	1.5	13	25	1.5:1	130	C3
AML45L1301	4.4 - 5.0	13	0.5	1.9	15	25	1.5:1	80	C2
AML45L2201	4.4 - 5.0	20-23	0.5	1.6	15	25	1.5:1	130	C3
AML45L2701	4.4 - 5.0	27	0.75	1.6	15	25	1.5:1	120	C3
AML45L4001	4.0 - 5.0	40	0.75	1.6	15	25	1.5:1	170	C4
AML45L4101	4.4 - 5.0	41	1	1.6	15	25	1.5:1	150	C4
AML45L1101	4.4 - 5.0	11	0.5	2.5	20	30	1.5:1	90	C2
AML45L2401	4.4 - 5.0	24	0.75	1.6	20	30	1.5:1	130	C3
AML45L3801	4.4 - 5.0	38	1	1.6	20	30	1.5:1	170	C4
AML45P1301	4.4 - 5.0	13	0.5	2.5	25	35	1.5:1	150	C2
AML45P2701	4.4 - 5.0	27	0.75	1.7	25	35	1.5:1	200	C3
AML45P4101	4.4 - 5.0	41	1	1.6	25	35	1.5:1	250	C4
AML45P1202	4.4 - 5.0	12	0.5	2.6	28	37	1.5:1	300	C2
AML45P1201	4.4 - 5.0	12	0.5	2.6	28	38	1.5:1	300	C2
AML45P2601	4.4 - 5.0	26	0.75	1.9	28	38	1.5:1	450	C3
AML45P4001	4.4 - 5.0	40	1	1.7	28	38	1.5:1	500	C4
AML45P1001	4.4 - 5.0	10	0.5	3	30	40	1.5:1	500	C2
AML45P1801	4.4 - 5.0	21	0.5	3	30	39	1.5:1	600	C3
AML45P2201	4.4 - 5.0	22	0.75	2.5	30	40	1.5:1	650	C3
AML45P3601	4.4 - 5.0	36	1	2	30	40	1.5:1	725	C4

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† Gain specified as min to max
*Power specified as Psat

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
4.0 - 6.5 GHz									
AML45L2601	4.5 - 5.5	26	0.5	1.6	10	20	1.5:1	90	C3
AML45L2402-TC	4.3 - 4.7	23	0.5	2.5	15	25	1.5:1	150	C4
AML46P2508	4.0 - 6.0	23.4-26.5	0.7	3.1	19	30	1.5:1	200	C3
AML45L2001	4.0 - 5.0	20-23	0.75	2	20	30	1.5:1	160	C3
AML45P1401	4.0 - 5.0	14	1	4	24	34	1.5:1	130	C2
AML45P1701	4.0 - 5.0	16.5-18	0.5	4.25	27	37	1.8:1	380	C3
AML45P2301	4.0 - 5.0	22-23.5	0.5	3.5	27	37	1.5:1	380	C3
AML45P1801-1	4.0 - 5.0	18	0.5	3.5	30	39	1.5:1	600	C3
5.2 - 6.0 GHz									
AML55L2802	5.4 - 5.9	28	1	0.7	10	18	2.0:1	100	C3
AML55L1401	5.4 - 5.9	14	0.5	1.6	10	20	1.5:1	50	C2
AML55L2601	5.4 - 5.9	26	0.75	1	10	20	1.8:1	120	C2
AML55L2801	5.4 - 5.9	28	0.75	1.6	10	20	1.5:1	90	C3
JCA56-302	5.4 - 5.9	30	0.5	1	10	20	2.0:1	275	FB2
JCA56-402	5.4 - 5.9	35	0.5	1.3	10	20	2.0:1	200	FC2
JCA56-401	5.4 - 5.9	40	0.5	1.2	10	20	2.0:1	200	C3
AML55L4201	5.4 - 5.9	42	1	1.6	10	20	1.5:1	130	C4
AML55L1301	5.4 - 5.9	13	0.5	1.9	15	25	1.5:1	80	C2
AML55L2701	5.4 - 5.9	27	0.75	1.6	15	25	1.5:1	120	C3
AML55L4101	5.4 - 5.9	41	1	1.6	15	25	1.5:1	150	C4
AML55L1101	5.4 - 5.9	11	0.5	2.5	20	30	1.5:1	90	C2
JCA56-2104	5.4 - 6.4	23	0.5	3	20	30	2.0:1	295	C2
AML55L2401	5.4 - 5.9	24	0.75	1.6	20	30	1.5:1	130	C3
AML45L3802	4.4 - 5.0	38	1	1.6	20	30	1.5:1	170	C4
AML55L4002	5.2 – 5.7	40-45	1	5	23	33	1.7:1	275	C4
AML55P1301	5.4 - 5.9	13	0.5	2.5	25	35	1.5:1	150	C2
AML55P2701	5.4 - 5.9	27	0.75	1.7	25	35	1.5:1	200	C3
AML55P4101	5.4 - 5.9	41	1	1.6	25	35	1.5:1	250	C4
AML55P4101L	5.4 - 5.9	41	1	2.6	25	35	1.5:1	250	C5
AML55P1201	5.4 - 5.9	12	0.5	2.6	28	38	1.5:1	300	C2
AML55P2601	5.4 - 5.9	26	0.75	1.9	28	38	1.5:1	450	C3
AML55P4001	5.4 - 5.9	40	1	1.7	28	38	1.5:1	500	C4
AML55P1001	5.4 - 5.9	10	0.5	3	30	40	1.5:1	500	C2
AML55P2201	5.4 - 5.9	22	0.75	2.5	30	40	1.5:1	650	C3
ALS5459-28-30	5.4 - 5.9	28	0.5	3	30	40	2.0:1	850	SLC-3
JCA56-404	5.4 - 5.9	30	0.5	3	30	40	2.0:1	850	C4
AML55P3601	5.4 - 5.9	36	1	2	30	40	1.5:1	725	C4

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AML55P3301	5.4 - 5.9	30-35	1	3	30	38	1.5:1	700	C5
AML55P3001	5.45 - 5.85	30	0.5	3	33.5	42	1.5:1	1350	C5
5.9 - 6.4 GHz									
AML56L1401	5.9 - 6.4	14	0.5	1.6	10	20	1.5:1	50	C2
AML56L2802	5.9 - 6.4	28	1	0.7	10	18	2.0:1	100	C3
AML56L2801	5.9 - 6.4	28	0.75	1.6	10	20	1.5:1	90	C3
AML56L3001	5.6 - 6.7	30	1	1	10	20	1.8:1	120	C3
AML56L4201	5.9 - 6.4	42	1	1.6	10	20	1.5:1	130	C4
AML56L4501	5.85 - 6.264	45	0.75	1	10	20	1.5:1	150	C4
AML56L1301	5.9 - 6.4	13	0.5	1.9	15	25	1.5:1	80	C2
AML56L2701	5.9 - 6.4	27	0.75	1.6	15	25	1.5:1	120	C3
AML56L4101	5.9 - 6.4	41	1	1.6	15	25	1.5:1	150	C4
AML56L1101	5.9 - 6.4	11	0.5	2.5	20	30	1.5:1	90	C2
AML56L2401	5.9 - 6.4	24	0.75	1.6	20	30	1.5:1	130	C3
AML56L3801	5.9 - 6.4	38	1	1.6	20	30	1.5:1	170	C4
AML56P1301	5.9 - 6.4	13	0.5	2.5	25	35	1.5:1	150	C2
AML56P2701	5.9 - 6.4	27	0.75	1.7	25	35	1.5:1	200	C3
AML56P4101	5.9 - 6.4	41	1	1.6	25	35	1.5:1	250	C4
AML56P1201	5.9 - 6.4	12	0.5	2.6	28	38	1.5:1	300	C2
AML56P2601	5.9 - 6.4	26	0.75	1.9	28	38	1.5:1	450	C3
AML56P4001	5.9 - 6.4	40	1	1.7	28	38	1.5:1	500	C4
AML56P1001	5.9 - 6.4	10	0.5	3	30	40	1.5:1	500	C2
AML56P2201	5.9 - 6.4	22	0.75	2.5	30	40	1.5:1	650	C3
AML56P2202	5.9 - 6.4	22	0.75	3	30	40	1.8:1	650	C3
JCA56-408	5.9 - 6.4	30	0.5	3	30	40	2.0:1	950	C4
AML56P3601	5.9 - 6.4	36	1	2	30	40	1.5:1	725	C4
6.0 - 7.5 GHz									
AML67L4801	6.45 - 7.125	48	1	1	10	20	1.5:1	180	C4
AML66P2401	6.0 - 6.2	25	1.5	5	20	28	2.0:1	300	C3
AML67P2001	6.5 - 7.5	20	0.75	3	20	30	1.8:1	225	K3
AML66P2801	6.0 - 6.2	28	1.5	7	27	34	2.0:1	700	C6
7.2 - 8.5 GHz									
AML77L1301	7.2 - 7.8	13	0.5	1.6	10	20	1.5:1	50	C2
JCA78-203	7.9 - 8.4	18	0.5	2.5	10	20	2.0:1	110	XK2
AML712L2001	7.5 - 12.5	20	1	3	10	20	1.8:1	100	K3

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AML78L2401	7.7 - 8.5	24	0.5	2	10	20	1.5:1	100	K3
AML77L2601	7.60 - 7.65	26	0.5	1.8	10	20	1.5:1	100	C3
AML77L2802	7.2 - 7.8	28	0.5	1	10	20	1.5:1	120	C3
AML77L2801	7.2 - 7.8	28	0.75	1.6	10	20	1.5:1	90	C3
AML77L4202	7.2 - 7.8	42	1	1	10	20	1.5:1	150	C4
AML77L4201	7.2 - 7.8	42	1	1.6	10	20	1.5:1	130	C4
AML78L4201	7.9 - 8.4	42	1.5	1.2	10	20	1.5:1	200	K5
AML78L4801	7.75 - 8.5	48	±1.0	1	10	20	1.5:1	230	K5
JCA78-300	7.25 - 7.75	27	0.5	2.5	13	23	1.5:1	150	C3
ALA0712-75-18	7.0 - 12.4	75	0.75	6	14	-	2.0:1	700	STC-4
AML77L1302	7.2 - 7.8	13	0.5	1.9	15	25	1.5:1	80	C2
AML77L2701	7.2 - 7.8	27	0.75	1.6	15	25	1.5:1	120	C3
AML77L2803	7.2 - 7.8	28	0.5	1	15	25	1.5:1	150	C3
AML77L4101	7.2 - 7.8	41	1	1.6	15	25	1.5:1	150	C4
ALA0709-79-16	7.0 - 9.0	79	1.5	4	16	-	2.0:1	400	STC-4
AML77L1101	7.2 - 7.8	11	0.5	2.5	20	30	1.5:1	90	C2
AML77L2401	7.2 - 7.8	24	0.75	1.6	20	30	1.5:1	130	C3
AML77L3801	7.2 - 7.8	38	1	1.6	20	30	1.5:1	170	C4
AML78P4001	7.5 - 9.0	40	0.75	2	20	30	1.8:1	240	K5
AML77P1601	7.25 - 7.75	15-17	0.5	2.5	23	33	1.5:1	150	C2
AML77P3202	7.25 - 7.75	31-33	0.5	2	23	33	1.5:1	300	K3
AML77P1301	7.2 - 7.8	13	0.5	2.5	25	35	1.5:1	150	C2
AML78P2003	7.5 - 8.5	20	0.25	3	25	35	1.8:1	230	K3
AML77P2701	7.2 - 7.8	27	0.75	1.7	25	35	1.5:1	200	C3
AML77P4101	7.2 - 7.8	41	1	1.6	25	35	1.5:1	250	C4
AML77P1201	7.2 - 7.8	12	0.5	2.6	28	38	1.5:1	300	C2
AML77P2601	7.2 - 7.8	26	0.75	1.9	28	38	1.5:1	450	C3
AML77P4001	7.2 - 7.8	40	1	1.7	28	38	1.5:1	500	C4
AML77P1001	7.2 - 7.8	10	0.5	3	30	40	1.5:1	500	C2
AML77P2201	7.2 - 7.8	22	0.75	2.5	30	40	1.5:1	650	C3
AML78P3002	7.2 - 8.4	28	1.5	4	30	38	2.0:1	700	K5
AML77P3601	7.2 - 7.8	36	1	2	30	40	1.5:1	725	C5
AML78P4002	7.9 - 8.4	40	1.5	2	30	38	1.8:1	900	K6
AML78P2001	7.9 - 8.4	18	1	4	33	42	2.0:1	1050	C4
AML77P3201	7.25 - 7.75	31-33	0.5	2	33	43	1.5:1	1100	C5

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7.0 - 13.0 GHz									
AML713P2601	7.0 - 13.0	23	2	4	26	35	1.8:1	550	K6
AML712P4001-TC	7.8 - 12.2	40	2	3	26	35	1.8:1	550	K9
AML713P3501	7.5 - 13.0	35-39	1.5	3	30	37	1.8:1	1030	K7
8.0 - 11.0 GHz									
AML88L2201	8.4 - 8.5	22-23	0.5	1.5	5	10	1.5:1	100	K3
AML810L1501	8.0 - 10.5	15	1	3	7	17	1.8:1	100	K3
JCA910-201	9.0 - 9.5	18	0.5	1.7	10	20	2.0:1	100	XK2
JCA910-205	9.0 - 9.5	18	0.75	1.4	10	20	1.5:1	100	K2
AML89L2101	8.5 - 9.6	21	0.5	2	10	20	1.5:1	120	SP3
AML911L4002	9.0 - 11.0	40	1	1.5	10	20	1.8:1	220	K5
JCA910-400	9.0 - 9.5	36	0.5	2.2	13	23	1.5:1	200	XK4
JCA910-401	9.0 - 9.5	36	0.5	1.7	13	23	1.5:1	200	XK4
AML88L1502	8.0 - 8.5	15-16	1.5	2	15	25	1.5:1	80	C2
AML88P2001	8.45 - 8.8	21-24	0.5	8	19	30	2.0:1	170	439
AML910P3001	9.0 - 10.0	30	0.5	2	20	30	1.8:1	210	K4
AML810L5001	8.8 - 10.5	50	1.5	5	20	30	2.0:1	350	K6
AML810P1401	8.0 - 10.0	14	0.5	5	21	29	1.8:1	140	K3
AML910P1401	9.0 - 10.0	14	0.5	5	21	30	1.8:1	195	K3
AML89P1801	8.0 - 9.5	18	1	5	21	28	2.0:1	200	K3
JCA910-406	9.0 - 9.5	30	0.5	3	23	33	1.5:1	350	XK4
AML910P3801	9.0 - 10.5	38	1	2.4	23	33	1.8:1	250	K5
AML910P4601	9.0 - 10.5	46	1	2.4	23	33	1.8:1	250	K5
AML910P1201	9.2 - 10.0	11-13	1	6	23	33	1.8:1	140	K2
AML910P1801	9.2 - 10.0	16-22	1	6	23	33	1.8:1	260	K3
AML910P2002	9.5 - 10.0	20	0.25	4	27	37	1.5:1	350	K3
AML89P2801	8.0 - 9.5	28	1.5	5	28	34	2.0:1	850	K6
AML99P2601	9.2 - 9.6	23	1.5	6	30	38	2.0:1	1050	K5
AML910P3005	9.0 - 10.2	30	2	6	30	36	1.8:1	850	K6
AML810P3001	8.5 - 10.5	30	±0.5	4	33	42	2.0:1	1600	KP8
AML99P3001	9.2 - 9.6	30	2	5	33	38	2.0:1	1580	KP8
AML910P1501	9.5 - 10.5	15	0.5	6	30	40	1.8:1	750	K3
AML910P4002	9.0 - 10.5	40	1.75	4	37	42	2.0:1	1800	KP8

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9.5 - 10.5 GHz									
AML910L1201	9.5 - 10.5	12	0.5	2.2	10	20	1.8:1	50	K2
JCA910-202	9.5 - 10.0	18	0.5	2.2	10	20	1.5:1	100	XK2
AML910L2301	9.5 - 10.5	22	0.5	1.5	10	20	1.5:1	120	K3
AML910L2201	9.5 - 10.5	22	0.75	2.2	10	20	1.8:1	100	K3
AML910L3003	9.5 - 10.5	30	1	1.2	10	18	2.0:1	150	K3
AML911L3001L	9.0 - 11.0	30	1	2.5	10	20	2.0:1	180	K5
AML910L3301	9.5 - 10.5	33	0.75	1.5	10	20	1.5:1	150	K3
AML910L3401	9.5 - 10.5	34	1	2.2	10	20	1.8:1	150	K4
AML910L3404	9.5 - 10.5	34	1	2.2	10	22	1.8:1	170	K4
AML910L4601	9.5 - 10.5	46	1.5	2.2	10	20	1.8:1	210	K5
JCA910-303	9.5 - 10.0	27	0.5	1.7	13	23	1.5:1	120	K3
AML910L1202	9.5 - 10.5	12	0.5	2.5	15	25	1.8:1	70	K2
AML910L2202	9.5 - 10.5	22	0.75	2.5	15	25	1.8:1	120	K3
AML910L2202L	9.5 - 10.5	22	0.75	3.5	15	25	1.8:1	120	K4
AML910L3402	9.5 - 10.5	34	1	2.5	15	25	1.8:1	170	K4
AML910L4602	9.5 - 10.5	46	1.5	2.5	15	25	1.8:1	230	K5
AML910L1203	9.5 - 10.5	12	0.5	4	17	27	1.8:1	90	K2
AML910L2203	9.5 - 10.5	22	0.75	3	17	27	1.8:1	150	K3
AML910L3403	9.5 - 10.5	34	1	2.5	17	27	1.8:1	190	K4
AML910L4501	9.5 - 10.5	45	1.5	2.5	17	27	1.8:1	250	K5
AML910P1001	9.5 - 10.5	10	0.5	3.5	20	30	1.8:1	80	K2
AML910P2201	9.5 - 10.5	22	0.75	2.5	20	30	1.8:1	140	K3
AML910P3401	9.5 - 10.5	34	1	2.5	20	30	1.8:1	180	K4
AML910P4501	9.5 - 10.5	45	1.5	2.5	20	30	1.8:1	240	K5
JCA910-407	9.5 - 10.0	30	0.5	3	23	33	2.0:1	350	XK4
AML910P1101	9.5 - 10.5	11	0.5	5	25	35	1.8:1	150	K2
AML910P2301	9.5 - 10.5	23	0.75	2.5	25	35	1.8:1	200	K3
AML910P3501	9.5 - 10.5	35	1	2.5	25	35	1.8:1	250	K4
AML910P4502	9.5 - 10.5	45	1.5	2.5	25	35	1.8:1	300	K5
AML910P1002	9.5 - 10.5	10	0.5	5	27	37	1.8:1	300	K2
AML910P2001	9.5 - 10.5	20	0.75	4.5	27	37	1.8:1	350	K3
AML910P3201	9.5 - 10.5	32	1	2.5	27	37	1.8:1	400	K4
AML910P4401	9.5 - 10.5	44	1.5	2.5	27	37	1.8:1	450	K5
AML910P2202	9.5 - 10.5	22	0.75	5	30	40	1.8:1	850	K5
AML910P3202	9.5 - 10.5	32	1	2.5	30	38	1.8:1	900	K6
AML910P3203	9.5 - 10.5	32	1.5	2.5	30	36	1.8:1	900	K6
AML910P4201	9.5 - 10.5	42	1.5	2.5	30	40	1.8:1	940	K7
AML910P4001	9.5 - 10.5	40	1	3	33	45	1.5:1	2250	KP8

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
10.7 - 11.7 GHz									
AML1011L1201	10.7 - 11.7	12	0.5	2.2	10	20	1.8:1	50	K2
AML1011L2201	10.7 - 11.7	22	0.75	2.2	10	20	1.8:1	100	K3
AML1011L3002	10.7 - 11.7	30	1	1.2	10	18	2.0:1	150	K3
AML1011L3401	10.7 - 11.7	34	1	2.2	10	20	1.8:1	150	K4
AML1011L4601	10.7 - 11.7	46	1.5	2.2	10	20	1.8:1	210	K5
AML1011L1202	10.7 - 11.7	12	0.5	2.5	15	25	1.8:1	70	K2
AML1011L2202	10.7 - 11.7	22	0.75	2.5	15	25	1.8:1	120	K3
AML1011L3402	10.7 - 11.7	34	1	2.5	15	25	1.8:1	170	K4
AML1011L4602	10.7 - 11.7	46	1.5	2.5	15	25	1.8:1	230	K5
AML1011L1203	10.7 - 11.7	12	0.5	4	17	27	1.8:1	90	K2
AML1011L2203	10.7 - 11.7	22	0.75	3	17	27	1.8:1	150	K3
AML1011L3403	10.7 - 11.7	34	1	2.5	17	27	1.8:1	190	K4
AML1011L4501	10.7 - 11.7	45	1.5	2.5	17	27	1.8:1	250	K5
AML1011P1001	10.7 - 11.7	10	0.5	3.5	20	30	1.8:1	80	K2
AML1011P2201	10.7 - 11.7	22	0.75	2.5	20	30	1.8:1	140	K3
AML1011P3401	10.7 - 11.7	34	1	2.5	20	30	1.8:1	180	K4
AML1011P4501	10.7 - 11.7	45	1.5	2.5	20	30	1.8:1	240	K5
AML1011P1101	10.7 - 11.7	11	0.5	5	25	35	1.8:1	150	K2
AML1011P2301	10.7 - 11.7	23	0.75	2.5	25	35	1.8:1	200	K3
AML1011P3501	10.7 - 11.7	35	1	2.5	25	35	1.8:1	250	K4
AML1011P4502	10.7 - 11.7	45	1.5	2.5	25	35	1.8:1	300	K5
AML1011P1002	10.7 - 11.7	10	0.5	5	27	37	1.8:1	300	K2
AML1011P2001	10.7 - 11.7	20	0.75	4.5	27	37	1.8:1	350	K3
AML1011P3201	10.7 - 11.7	32	1	2.5	27	37	1.8:1	400	K4
AML1011P4401	10.7 - 11.7	44	1.5	2.5	27	37	1.8:1	450	K5
AML1011P1501	10.7 - 11.7	15	0.5	6	30	40	1.8:1	750	K3
AML1011P2202	10.7 - 11.7	22	0.75	5	30	40	1.8:1	850	K5
AML1011P3202	10.7 - 11.7	32	1	2.5	30	40	1.8:1	900	K6
AML1011P4201	10.7 - 11.7	42	1.5	2.5	30	40	1.8:1	940	K7
11.7 - 12.2 GHz									
AML1112L1001	11.7 - 12.2	10	0.3	2	10	20	1.5:1	50	K2
AML1112L2001	11.7 - 12.2	20	0.5	2.2	10	20	1.5:1	90	K3
AML1112L3002	11.7 - 12.2	30	1	1.3	10	18	2.0:1	150	K3
AML1112L3001	11.7 - 12.2	30	0.8	2.2	10	20	1.5:1	160	K4
AML1112L3801	11.7 - 12.2	38	1	2.2	10	20	1.5:1	210	K5
AML1112L1002	11.7 - 12.2	10	0.3	2.5	13	23	1.5:1	70	K2

-Specifications are at +25°C
-Operating temperature range is -20 to +70°C
-Operational range of -54 to +85°C is available

-DC Voltage is +12 to +15 VDC unless stated otherwise
-Specifications are subject to change

† Gain specified as min to max
*Power specified as Psat

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AML1112L1802	11.7 - 12.2	18	0.5	2.2	13	25	1.5:1	110	K3
AML1112L2701	11.7 - 12.2	27	0.8	2.2	13	23	1.5:1	180	K4
AML1112L3601	11.7 - 12.2	36	1	2.2	13	23	1.5:1	230	K5
AML1112P1601	11.7 - 12.2	16	0.5	2.5	20	30	1.5:1	130	K3
AML1112P2701	11.7 - 12.2	27	0.8	2.2	20	30	1.5:1	200	K4
AML1112P3601	11.7 - 12.2	36	1	2.2	20	30	1.5:1	250	K5
AML1112L1501	11.7 - 12.2	15	0.5	2.5	20	30	1.5:1	120	K3
AML1112P2501	11.7 - 12.2	25	0.8	2.2	20	30	1.5:1	210	K4
AML1112P3501	11.7 - 12.2	35	1	2.2	20	30	1.5:1	260	K5
AML1112P4501	11.7 - 12.2	45	1.3	2.2	20	30	1.5:1	310	K6
AML1112P1602	11.7 - 12.2	16	0.5	4	25	35	1.5:1	250	K3
AML1112P2502	11.7 - 12.2	25	0.8	2.5	25	35	1.5:1	300	K4
AML1112P3502	11.7 - 12.2	35	1	2.5	25	35	1.5:1	350	K5
AML1112P4502	11.7 - 12.2	45	1.3	2.2	25	35	1.5:1	400	K6
AML1112P1502	11.7 - 12.2	15	0.5	5	28	38	1.5:1	450	K3
AML1112P2503	11.7 - 12.2	25	0.8	4	28	38	1.5:1	520	K4
AML1112P3503	11.7 - 12.2	35	1	2.5	28	38	1.5:1	580	K5
AML1112P4503	11.7 - 12.2	45	1.3	2.2	28	38	1.5:1	630	K6
AML1112P1201	11.7 - 12.2	12	0.5	6	28	38	1.5:1	800	K3
AML1112P2001	11.7 - 12.2	20	0.8	5	30	40	1.5:1	950	K5
AML1112P2801	11.7 - 12.2	28	1	4.5	30	40	1.5:1	1050	K6
AML1112P3801	11.7 - 12.2	38	1.3	2.5	30	40	1.5:1	1100	K7
12.2 - 13.2 GHz									
AML1213L1001	12.2 - 13.2	10	0.3	2	10	20	1.5:1	50	K2
AML1213L2001	12.2 - 13.2	20	0.5	2.2	10	20	1.5:1	90	K3
AML1213L3002	12.2 - 13.2	30	1	1.3	10	18	2.0:1	150	K3
AML1213L3001	12.2 - 13.2	30	0.8	2.2	10	20	1.5:1	160	K4
AML1213L3801	12.2 - 13.2	38	1	2.2	10	20	1.5:1	210	K5
AML1213L1002	12.2 - 13.2	10	0.3	2.5	13	23	1.5:1	70	K2
AML1213L1802	12.2 - 13.2	18	0.5	2.2	13	25	1.5:1	110	K3
AML1213L2701	12.2 - 13.2	27	0.8	2.2	13	23	1.5:1	180	K4
AML1212L3101	12.3 - 12.7	31	1	1.5	15	25	1.5:1	175	K4
AML1213L3601	12.2 - 13.2	36	1	2.2	13	23	1.5:1	230	K5
AML1213P1601	12.2 - 13.2	16	0.5	2.5	20	30	1.5:1	130	K3
AML1213P2701	12.2 - 13.2	27	0.8	2.2	20	30	1.5:1	200	K4
AML1213P3601	12.2 - 13.2	36	1	2.2	20	30	1.5:1	250	K5
AML1213L1501	12.2 - 13.2	15	0.5	2.5	20	30	1.5:1	120	K3
AML1213P2501	12.2 - 13.2	25	0.8	2.2	20	30	1.5:1	210	K4

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AML1213P3501	12.2 - 13.2	35	1	2.2	20	30	1.5:1	260	K5
AML1213P4501	12.2 - 13.2	45	1.3	2.2	20	30	1.5:1	310	K6
AML1213P1602	12.2 - 13.2	16	0.5	4	25	35	1.5:1	250	K3
AML1213P2502	12.2 - 13.2	25	0.8	2.5	25	35	1.5:1	300	K4
AML1213P3502	12.2 - 13.2	35	1	2.5	25	35	1.5:1	350	K5
AML1213P4502	12.2 - 13.2	45	1.3	2.2	25	35	1.5:1	400	K6
AML1213P1502	12.2 - 13.2	15	0.5	5	28	38	1.5:1	450	K3
AML1213P2503	12.2 - 13.2	25	0.8	4	28	38	1.5:1	520	K4
AML1213P3503	12.2 - 13.2	35	1	2.5	28	38	1.5:1	580	K5
AML1213P4503	12.2 - 13.2	45	1.3	2.2	28	38	1.5:1	630	K6
AML1213P1201	12.2 - 13.2	12	0.5	6	30	38	1.5:1	800	K3
AML1213P2001	12.2 - 13.2	20	0.8	5	30	40	1.5:1	950	K5
AML1213P2801	12.2 - 13.2	28	1	4.5	30	40	1.5:1	1050	K6
AML1213P3801	12.2 - 13.2	38	1.3	2.5	30	40	1.5:1	1100	K7
10.7 - 11.7 GHz									
AML1012L2103	10.7-12.75	20	0.2*	1.5:1	10	20	1.5:1	190	K3
AML1012L2002	10.7 - 12.7	20	1	2	5	15	2.0:1	100	K3
AML1012L2101	10.7 - 12.75	20	0.4	1.5	10	20	1.3:1	120	K3
AML1012L2801	10.7 - 12.75	28	1	2	10	20	1.8:1	160	K4
AML1012L4001	10.7 - 12.75	40	1.5	2	10	20	1.8:1	210	K5
AML1011P3203	10.7 - 11.7	32	0.5	2.5	25	35	1.8:1	250	K4
10.7 - 13.7 GHz									
AML1013L0901	10.7 - 13.7	9	0.5	1.8	10	20	1.5:1	50	K2
AML1013L1801	10.7 - 13.7	18	0.5	1.8	10	20	1.5:1	90	K3
AML1013L2701	10.7 - 13.7	27	0.75	1.8	10	20	1.5:1	130	K4
AML1013L1802	10.7 - 13.7	18	0.5	1.8	15	25	1.5:1	90	K3
AML1013L2702	10.7 - 13.7	27	0.75	1.8	15	25	1.5:1	130	K4
12.4 - 14.5 GHz									
AML1313L4501	13.0 - 13.25	45	1	1.3	10	20	1.5:1	250	K5
AML1214L1001	12.75 - 14.5	10	0.5	2.5	10	20	1.8:1	50	K2
AML1214L2001	12.75 - 14.5	20	1	2.5	10	20	1.8:1	90	K3
AML1214L2002	12.75 - 14.5	20	1	4	13	23	2.0:1	130	K3
AML1213L1502	12.5 - 13.2	15-17	1	3	18	28	2.0:1	150	K3
AML1213P3001	12.7 - 13.5	28.5-31.5	0.5	5	20	30	1.8:1	220	K4
AML1213P0701	12.4 - 13.0	7	1	6	21	31	2.0:1	200	K2
JCA1214-3018	12.0 - 14.0	34	1	5	27	37	2.0:1	600	K6

-Specifications are at +25°C
-Operating temperature range is -20 to +70°C
-Operational range of -54 to +85°C is available

-DC Voltage is +12 to +15 VDC unless stated otherwise
-Specifications are subject to change

† Gain specified as min to max
*Power specified as Psat

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
13.8 - 18.0 GHz									
AML1416L2802	14.5 - 16.5	28	0.75	2	10	20	1.8:1	180	K4
AML1314L3002	13.0 - 14.5	30	0.75	1.5	10	20	1.5:1	130	K4
AML1314L3101	13.8 - 14.2	31	1	1.5	15	25	1.5:1	175	K2
AML1414P1001	14.0 - 14.5	10	0.5	4	20	30	1.8:1	110	K2
AML1314P2501	13.0 - 14.5	25	0.5	3	25	35	1.8:1	270	K4
AML1316P4001	13.0 - 16.0	40	3	3	28	40	2.0:1	900	KP8
AML1318P3501	13.0 - 18.0	35	3	3.5	34	40	1.8:1	1800	KP8
AML1318P3502	13.0 - 18.0	30	3	5	36	40	1.8:1	3000	KP8
AML1318P3503	13.0 - 18.0	30	3	5	38	40	1.8:1	6000	KP8
14.0 - 14.8 GHz									
AML1414L0801	14.0 - 14.5	8	0.5	1.5	10	20	1.5:1	50	K2
AML1414L1001	14.0 - 14.5	10	0.3	1.8	10	20	1.5:1	50	K2
AML1414L1601	14.0 - 14.5	16	0.5	1.5	10	20	1.5:1	90	K3
AML1414L2001	14.0 - 14.5	20	0.5	2	10	20	1.5:1	90	K3
AML1414L2401	14.0 - 14.5	24	0.75	1.5	10	20	1.5:1	130	K4
AML1414L3001	14.0 - 14.5	30	0.8	2	10	20	1.5:1	160	K4
AML1414L3003	14.0 - 14.5	30	1	1.3	10	18	2.0:1	150	K3
AML1414L3301	14.0 - 14.5	33	1	1.5	10	20	1.5:1	180	K5
AML1414L3801	14.0 - 14.5	38	1	2	10	20	1.5:1	210	K5
AML1414L1002	14.0 - 14.5	10	0.3	2.5	13	23	1.5:1	70	K2
AML1414L1801	14.0 - 14.5	18	0.5	2	13	25	1.5:1	110	K3
AML1414L1802-TC	14.3 - 14.7	18	0.5	3	13	23	1.5:1	150	K4
AML1414L2501	14.3 - 14.8	25	1	1.5	13	23	1.5:1	160	K4
AML1414L2701	14.0 - 14.5	27	0.8	2	13	23	1.5:1	180	K4
AML1414L3602	14.0 - 14.5	36	1	2	13	23	1.5:1	230	K5
AML1414L1602	14.0 - 14.5	16	0.5	1.5	15	25	1.5:1	120	K3
AML1414L2402	14.0 - 14.5	24	0.75	1.5	15	25	1.5:1	160	K4
AML1414L1501	14.0 - 14.5	15	0.5	2.5	20	30	1.5:1	120	K3
AML1414P1601	14.0 - 14.5	16	0.5	2.5	20	30	1.5:1	130	K3
AML1414P2501	14.0 - 14.5	25	0.8	2.2	20	30	1.5:1	210	K4
AML1414P2701	14.0 - 14.5	27	0.8	2.2	20	30	1.5:1	200	K4
JCA1415-604	14.0 - 14.5	32	0.5	3	20	30	2.0:1	350	K6
AML1414P3501	14.0 - 14.5	35	1	2.2	20	30	1.5:1	260	K5
AML1414P3601	14.0 - 14.5	36	1	2.2	20	30	1.5:1	250	K5
AML1414P4501	14.0 - 14.5	45	1.3	2.2	20	30	1.5:1	310	K6
AML1414P1602	14.0 - 14.5	16	0.5	4	25	35	1.5:1	250	K3
AML1414P2502	14.0 - 14.5	25	0.8	2.5	25	35	1.5:1	300	K4

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AML1414P3502	14.0 - 14.5	35	1	2.5	25	35	1.5:1	350	K5
AML1414P4502	14.0 - 14.5	45	1.3	2.2	25	35	1.5:1	400	K6
AML1414P1201	14.0 - 14.5	12	0.5	6	28	38	1.5:1	800	K3
AML1414P1502	14.0 - 14.5	15	0.5	5	28	38	1.5:1	450	K3
AML1414P2503	14.0 - 14.5	25	0.8	4	28	38	1.5:1	520	K4
AML1414P3503	14.0 - 14.5	35	1	2.5	28	38	1.5:1	580	K5
AML1414P4503	14.0 - 14.5	45	1.3	2.2	28	38	1.5:1	630	K6
AML1414P2001	14.0 - 14.5	20	0.8	5	30	40	1.5:1	950	K5
AML1414P2801	14.0 - 14.5	28	1	4.5	30	40	1.5:1	1050	K6
AML1414P3801	14.0 - 14.5	38	1.3	2.5	30	40	1.5:1	1100	K7
10.0 - 15.0 GHz									
AML1015L1001	10.0 - 15.0	10-13	0.5	3	12	22	1.8:1	100	K2
AML1015P2802	10.0 - 15.0	28	2	5.5	32	39	1.8:1	2000	KP8
14.0 - 19.0 GHz									
AML1518L2801L	15.3-18.3	27-33	1.2	3.5	8	18	2.0:1	175	K4
AML1617L3001L	16.9 - 17.1	30	0.8	3.3	10	20	1.5:1	160	K4
AML1516L2001	15.0 - 16.0	20	1	2.4	17	27	1.8:1	180	K3
AML1515L2001	15.5 - 15.7	20	1	2.5	18	28	1.8:1	180	K3
AML1518P1601	15.0 - 18.0	16	0.5	2.3	20	30	1.5:1	130	K3
AML1518P3001	15.0 - 18.0	30	0.75	3	20	30	1.8:1	180	K4
AML1519P3001	15.0 - 19.0	30	2	3	20	30	2.0:1	350	K5
AML1516L6001	15.7 - 16.8	60	1.5	5	20	30	2.0:1	500	K6
AML1417P2501	14.0 - 17.0	25	0.5	4	25	35	1.5:1	500	K4
AML1515P1801	15.5 - 15.8	18	1.5	8	30	40	2.0:1	950	K5
15.0 - 20.0 GHz									
AML1520L1601	15.0 - 20.0	16	1	3	10	20	2.0:1	100	K3
AML1520L2501	15.0 - 20.0	24	1.25	3	10	20	1.8:1	150	K4
AML1520L3401	15.0 - 20.0	32	1.5	3	10	20	1.8:1	200	K5
AML1520L1002	15.0 - 20.0	8	0.5	3.5	13	23	2.0:1	70	K2
AML1520L1602	15.0 - 20.0	16	1	3.5	13	23	2.0:1	110	K3
AML1520L2502	15.0 - 20.0	24	1.25	3.5	13	23	2.0:1	160	K4
AML1520L3402	15.0 - 20.0	32	1.75	3.5	13	23	2.0:1	200	K5
AML1520P1501	15.0 - 20.0	14	1	3.5	18	28	2.0:1	140	K3
AML1520P2301	15.0 - 20.0	22	1.5	3.5	18	28	2.0:1	190	K4
AML1520P3001	15.0 - 20.0	30	2	3.5	18	28	2.0:1	240	K5

-Specifications are at +25°C
-Operating temperature range is -20 to +70°C
-Operational range of -54 to +85°C is available

-DC Voltage is +12 to +15 VDC unless stated otherwise
-Specifications are subject to change

† Gain specified as min to max
*Power specified as Psat

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AML1520P2401	15.0 - 20.0	23	1.5	4	24	30	2.0:1	250	K4
AML1520P3301	15.0 - 20.0	32	2	4	24	30	2.0:1	320	K5
AML1520P2803	15.0 - 20.0	28	2	4	27	37	1.8:1	500	K6
AML1520P3601	15.0 - 20.0	36	3	4	27	33	2.0:1	575	K7
AML1520P2802	15.0 - 20.0	28	2	5	30	37	2.0:1	1400	KP8
AML1520P2801	15.0 - 20.0	28	2	5	33	38	2.0:1	2000	KP8
16.0 - 17.0 GHz									
AML1617L1001	16.0 - 17.0	10	0.3	2	10	20	1.5:1	50	K2
AML1617L2001	16.0 - 17.0	20	0.5	2.2	10	20	1.5:1	90	K3
AML1617L3002	16.0 - 17.0	30	1	1.4	10	18	2.0:1	150	K3
AML1617L3001	16.0 - 17.0	30	0.8	2.2	10	20	1.5:1	160	K4
AML1617L3801	16.0 - 17.0	38	1	2.2	10	20	1.5:1	210	K5
AML1617L1002	16.0 - 17.0	10	0.3	2.5	13	23	1.5:1	70	K2
AML1617L1802	16.0 - 17.0	18	0.5	2.2	13	25	1.5:1	110	K3
AML1617L2701	16.0 - 17.0	27	0.8	2.2	13	23	1.5:1	180	K4
AML1617L3601	16.0 - 17.0	36	1	2.2	13	23	1.5:1	230	K5
AML1617P1601	16.0 - 17.0	16	0.5	2.5	20	30	1.5:1	130	K3
AML1617P2701	16.0 - 17.0	27	0.8	2.2	20	30	1.5:1	200	K4
AML1617P3601	16.0 - 17.0	36	1	2.2	20	30	1.5:1	250	K5
AML1617L1501	16.0 - 17.0	15	0.5	2.5	20	30	1.5:1	120	K3
AML1617P2501	16.0 - 17.0	25	0.8	2.2	20	30	1.5:1	210	K4
AML1617P3504	16.0 - 17.0	35	1	2.2	20	30	1.5:1	260	K5
AML1617P4501	16.0 - 17.0	45	1.3	2.2	20	30	1.5:1	310	K6
AML1617P1602	16.0 - 17.0	16	0.5	4	25	33	1.5:1	250	K3
AML1617P2502	16.0 - 17.0	25	0.8	2.5	25	33	1.5:1	300	K4
AML1617P3502	16.0 - 17.0	35	1	2.5	25	33	1.5:1	350	K5
AML1617P4502	16.0 - 17.0	45	1.3	2.2	25	33	1.5:1	400	K6
AML1617P1502	16.0 - 17.0	15	0.5	5	28	34	1.5:1	450	K3
AML1617P2503	16.0 - 17.0	25	0.8	4	28	34	1.5:1	520	K4
AML1617P3503	16.0 - 17.0	35	1	2.5	28	34	1.5:1	580	K5
AML1617P4503	16.0 - 17.0	45	1.3	2.2	28	34	1.5:1	630	K6
AML1617P1201	16.0 - 17.0	12	0.5	6	28	34	1.5:1	800	K3
AML1617P2001	16.0 - 17.0	20	0.8	5	30	35	1.5:1	950	K5
AML1617P2801	16.0 - 17.0	28	1	4.5	30	35	1.5:1	1050	K6
AML1617P3801	16.0 - 17.0	38	1.3	2.5	30	35	1.5:1	1100	K7
AML1617P3501	16.7 - 17.2	35	0.5	4	33	38	1.5:1	1800	KP8

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
16.0 - 28.0 GHz									
AML1826L1601	18.0 - 26.5	16	1.5	3	9	17	2.0:1	110	B2
AML1826L4002	18.0 - 26.0	40	2.75	3	9	19	2.0:1	250	B5
AML1818L1801	18.2 - 18.9	18	0.5	2.5	10	20	1.8:1	100	K3
AML1826L2401	18.0 - 26.5	24	2	3	10	18	2.0:1	160	B3
ALN1719-27-10	17.7 - 18.9	27	0.5	2.8	10	20	2.0:1	200	STC-3
AML1820L3202	18.3 - 20.2	30-36	2	1.4	10	18	1.3:1	180	K3
AML1826L3201	18.0 - 26.5	32	2.5	3	10	18	2.0:1	200	B4
AML1721L2801	17.0 - 21.0	25-30	1	2.5	10	20	1.8:1	150	B3
JCA1826-600	18.0 - 26.0	30	2	5	10	20	2.0:1	240	KM2
JCA1826-503	18.0 - 26.0	32	2.5	6	12	22	2.0:1	290	KM4
AML1826L2402	18.0 - 26.5	23	2	3.5	13	20	2.0:1	180	B3
JCA1721-2102	17.7 - 21.2	24	1.5	4.5	13	23	2.0:1	185	Q4
AML1826L3202	18.0 - 26.5	30	2.5	3.5	13	20	2.0:1	220	B4
AML1826L4003	18.0 - 26.5	38	3	3.5	13	20	2.0:1	270	B5
JCA1920-203	19.2 - 20.2	15	0.5	3.8	15	25	2.0:1	200	KM2
AML1722P2501	17.0 - 22.0	24-27	0.25	4.5	18	26	1.5:1	225	K4
AML1821P2501	18.0 - 21.0	25	2	3.5	19	27	1.8:1	120	BP3
AML1920P1801	19.0 - 20.0	18	1	3.5	20	28	1.8:1	180	K3
JCA1721-2106	17.7 - 21.2	21	1.5	6	21	31	2.0:1	350	KM4
AML1927P3001	19.0 - 27.0	28	3	5	21	30	2.0:1	350	BP3
AML1826P2201	18.0 - 26.5	22	1.5	4.5	22	30	2.0:1	350	002-0744
AML1826P2401	18.0 - 26.5	24	2	4.5	22	30	2.0:1	300	KA2
AML1826P3201	18.0 - 26.5	31	2.5	4	22	30	2.0:1	350	KA3
AML1826P4001	18.0 - 26.5	38	3	4	22	30	2.0:1	400	KA4
AML1724P3001	17.0 - 24.0	30	3	6	23	30	2.5:1	900	BP3
AML1921P4001	19.0 - 21.0	40	2	4.5	23	33	1.5:1	620	K6
AML1722P3401	17.0 - 22.0	34 - 35	0.25	5	23	31	1.5:1	300	K5
JCA1721-2107	17.7 - 21.2	20	1.5	6	24	34	2.0:1	400	KM4
AML1826P2402	18.0 - 26.5	23	2	4.5	24	32	2.0:1	550	KA2
AML1826P3202	18.0 - 26.5	31	2.5	4	24	32	2.0:1	650	KA3
AML1826P4002	18.0 - 26.5	38	3	4	24	32	2.0:1	700	KA4
AML1824P3201	18.0 - 24.0	32	3	6	27	35	1.8:1	950	BP3
AML1624P3501	16.0 - 24.0	35	2.5	5	27	35	2.0:1	600	K6
AML1721P3201	17.0 - 21.0	32	2	5.5	28	41	1.8:1	1500	KP8
AML1826P3204	18.0 - 26.5	36	2.5	6	28	35	2.0:1	950	BP3
AML1624P3502	16.0 - 24.0	35	2.5	5	29	36	2.0:1	1050	K8

-Specifications are at +25°C
-Operating temperature range is -20 to +70°C
-Operational range of -54 to +85°C is available

-DC Voltage is +12 to +15 VDC unless stated otherwise
-Specifications are subject to change

† Gain specified as min to max
*Power specified as Psat

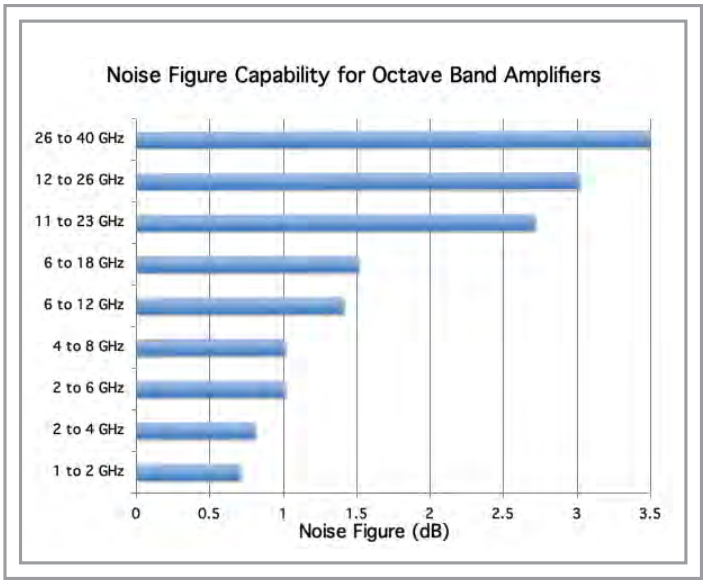
Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AML1919P3001	19.5 - 19.7	30	1	5	30	38	2.0:1	1000	KP8
AML1721P3202	17.0 - 21.0	31	2.5	5.5	30	41	1.8:1	1500	KP8
AML1719P3001	17.0 - 19.0	30 - 36	2	6	30	38	1.8:1	1000	K7
AML1826P3203	18.0 - 26.5	35	3	5	31	37	1.8:1	1500*	KP8
20.0 - 26.0 GHz									
AML2424L1801	24.05 - 24.25	18	1	2.5	5	13	1.8:1	40	M1
AML2124L2001	21.0 - 24.0	20	2.5	3	5	13	2.0:1	40	M1
AML2226L2201	22.0 - 26.0	21	1	3.3	5	13	1.5:1	75	KA2
AML2122L2201	21.5 - 22.5	22	1.5	2.8	5	13	2.0:1	40	M1
AML2426L1601	24.0 - 26.0	16	2.5	3	5	13	2.0:1	40	M1
AML2226L2301	22.0 - 26.5	23	1.5	4	8	16	2.0:1	60	KA2
AML2424L3001	24.0 - 24.3	30	0.5	3	10	20	1.8:1	150	B2
AML2426L2501	24.0 - 26.0	25	1.5	3.5	15	23	2.0:1	150	B2
JCA2324-406	23.2 - 24.6	30	1	5	20	30	2.0:1	575	Q6
AML2222P2201	22.6 - 23.0	22	2	5	22	30	2.0:1	400	K5
JCA2021-605	20.2 - 21.2	28	1	5	23	33	2.0:1	400	Q6
AML2020P2801	20.4 - 20.5	28	1.5	6	27	35	2.0:1	580	K6
24.0 - 35.0 GHz									
AML2632L2001	26.0 - 32.0	19	2	3.5	7	15	2.0:1	80	M1
AML2734L1801	27.0 - 34.0	18	2	3.8	8	16	2.0:1	60	KA2
AML2734L3601	27.0 - 34.0	35	3	3.8	8	16	2.0:1	120	KA2
AML3035P3001	30.0 - 35.0	30	2.5	5	20	34	1.8:1	550	KA2
AML2531P1801	25.0 - 31.0	18	2	9	25	32	2.0:1	800	KA2
AML2430P3001	24.0 - 30.0	30	3	6	27	36	2.0:1	850	KA2
AML3031P3001	30.0 - 31.0	30	3	6	28	36	2.0:1	600	KA3
APA2731-30-28	27.0 - 31.0	30	1	N/A	28	36	2.0:1	1000	STK-6 O/L
AML2731P3501	27.0 - 31.0	35	3.5	5	31	37	2.0:1	1000	KA4
30.0 - 40.0 GHz									
AML3740L2001	37.0 - 40.0	20	2	4	8	15	2.0:1	12V, 55	K2
AML3640L4501	36.0 - 40.0	45	2	4.5	8	18	2.5:1	12V, 220	B2
AML3640P3501	36.0 - 40.0	35	3.5	6	26	36	2.0:1	12V, 1250	KA3
ALS3238-20-12	32.0 - 38.0	20	1	5	12	22	2.2:1	350	STK-4

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
30.0 - 50.0 GHz									
ALS3050-40-08	30.0 - 50.0	40	2.5	8	8	18	2.5:1	525	STV-6
ALS3350-20-16	33.0 - 50.0	20	3	9	16*	N/A	2.5:1	600	STV-6
					*Psat				
40.0 - 60.0 GHz									
ALS4060-26-5	40.0 - 60.0	26	3	7	5	13	3.0:1	575	STV-6
ALS4060-20-10	40.0 - 60.0	20	3	9.5	10	20	3.0:1	600	STV
ALS4060-26-10	40.0 - 60.0	26	3	9.5	10	20	3.0:1	650	STV
ALS4060-30-10	40.0 - 60.0	30	3	9.5	10	20	3.0:1	725	STV
ALS4060-25-14	40.0 - 60.0	25	3	9.5	14	20	3.0:1	950	STV
APA3943-30-29	40.0 - 42.7	30	1	-	28.5	37	2.0:1	3000	STK-6 O/L

-Specifications are at +25°C
-Operating temperature range is -20 to +70°C
-Operational range of -54 to +85°C is available

-DC Voltage is +12 to +15 VDC unless stated otherwise
-Specifications are subject to change

† Gain specified as min to max
*Power specified as Psat



Octave Band

Connectorized Microwave Amplifiers

Octave band amplifiers take advantage of balanced topology circuitry that provides good input/output VSWR, stability and high reliability. All units incorporate modularized gain stages optimized for best gain, noise figure and power. These modular stages ensure quick time-to-market for custom specifications.

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
1.0 to 2.0 GHz									
AML12L1701	1.0 - 2.0	17	0.5	1	10	20	1.8:1	50	L2
JCA12-F01	1.0 - 2.0	22	1	1.2	10	20	2.0:1	150	LCFB1
AML12L3201	1.0 - 2.0	32	1.5	0.6	10	20	2.0:1	100	L3
AML12L3401	1.0 - 2.0	34	1	1	10	20	1.8:1	100	L3
AML12L3408	1.0 - 2.0	34	1	3	10	20	1.8:1	120	L3
AML12L4801	1.0 - 2.0	48	1.5	0.6	10	20	2.0:1	150	L3
AML12L5001	1.0 - 2.0	50	1.5	1.2	10	20	1.8:1	150	L4
AML12L7001	1.0 - 2.0	68	2	2.5	10	20	1.8:1	150	L5
AML12L2401	1.0 - 2.0	22-25	1	2	10	20	2.0:1	120	L2
AML12L3003	1.0 - 2.0	30-32	1	1	10	20	1.8:1	100	L3
AML12L3403	1.0 - 2.0	33-37	0.75	1.3	10	20	1.8:1	100	L3
AML12L1702	1.0 - 2.0	17	0.5	1.2	13	23	1.8:1	70	L2
AML12L3402	1.0 - 2.0	34	1	1.2	13	23	1.8:1	120	L3
AML12L5002	1.0 - 2.0	50	1.5	1.2	13	23	1.8:1	170	L4
JCA12-2003	1.0 - 2.0	20	1	1.9	15	25	2.0:1	125	LCFB1
JCA12-3003	1.0 - 2.0	30	1	1	15	25	2.0:1	175	FB2
AML12L1401	1.0 - 2.0	14	0.5	2.5	17	27	1.8:1	90	L2
AML12L3101	1.0 - 2.0	31	1	1.2	17	27	1.8:1	150	L3
AML12L4701	1.0 - 2.0	47	1.5	1.2	17	27	1.8:1	200	L4
JCA12-1005	1.0 - 2.0	10	1	2	20	30	2.0:1	150	LCFB1
AML12P1401	1.0 - 2.0	14	0.5	3	20	30	1.8:1	90	L2
JCA12-2005	1.0 - 2.0	20	1	1.8	20	30	2.0:1	185	LCFB1

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
JCA12-3005	1.0 - 2.0	30	1	1	20	30	2.0:1	150	FB2
AML12P3101	1.0 - 2.0	31	1	1.5	20	30	1.8:1	130	L3
AML12P2301	1.0 - 2.0	21-24	1	1.6	21	31	1.8:1	220	modK4
JCA12-307	1.0 - 2.0	27	1.5	2.5	23	33	2.0:1	400	FB2
AML12P1701	1.0 - 2.0	17	0.5	4	25	35	1.8:1	150	L2
AML12P3401	1.0 - 2.0	34	1	1.5	25	35	1.8:1	200	L3
AML12P3404	1.0 - 2.0	34	1	2.5	25	37	1.8:1	200	L3
AML12P5001	1.0 - 2.0	50	1.5	1.5	25	35	1.8:1	280	L4
AML12P1601	1.0 - 2.0	16	0.5	4	27	37	1.8:1	300	L2
AML12P1602	1.0 - 2.0	16	0.5	5	27	37	1.8:1	300	L2
AML12P3402	1.0 - 2.0	34	1	1.5	27	37	1.8:1	360	L3
AML12P4002	1.0 - 2.0	40-45	1	5	27	40	2.0:1	700	L5
AML12P5002	1.0 - 2.0	50	1.5	1.5	27	37	1.8:1	410	L4
AML12P4001	1.0 - 2.0	38-42	1	5	27	37	2.0:1	700	L5
AML12P1502	1.0 - 2.0	15	0.5	4	30	40	1.8:1	500	L2
BR1000222	1.0 - 2.0	22	1	5	30	44	2.0:1	700	OL37
BR1000230	1.0 - 2.0	30	1.1	6	30	42	2.0:1	900	OL39
AML12P3201	1.0 - 2.0	32	1	3	30	40	1.8:1	600	L3
JCA12-4009	1.0 - 2.0	40	1	1.7	30	38	2.0:1	900	FB2
AML12P4801	1.0 - 2.0	48	1.5	2	30	40	1.8:1	650	L5
BR1000209	1.0 - 2.0	9	1	5	31	43	2.0:1	600	OL35
AML12P2601-2W	1.0 - 2.0	26	1.5	5	33	42	1.8:1	900	L4
AML12P3501	1.0 - 2.0	35	2	5	33	43	1.8:1	1100	L5
AML12P4202	1.0 - 2.0	42	2	3	33	42	1.8:1	960	L5
AML12P2602	1.0 - 2.0	26	1.5	5	36	44	2.0:1	1650	LP4
2.0 to 4.0 GHz									
AML24L3004	2.0 - 4.0	30	1.5	0.7	7	17	2.0:1	100	C3
ALS0204-14-10	2.0 - 4.0	14	1	2	10	20	2.0:1	70	STC-1
AML24L1601	2.0 - 4.0	16	0.5	1.3	10	20	1.8:1	50	C2
JCA24-308	2.0 - 4.0	30	1	1.5	10	20	2.0:1	150	FB2
ALS0204-30-10	2.0 - 4.0	30	1	2	10	20	2.0:1	150	STC-2
AML24L3201	2.0 - 4.0	32	1	1.4	10	20	1.8:1	100	C3
AML24L3203	2.0 - 4.0	32	0.75*	2	10	20	1.8:1	100	C3
AML24L3204	2.0 - 4.0	32	1.5	1.2	10	20	2.0:1	100	C3
AML24L3205	2.0 - 4.0	32	1.5	1	10	20	2.0:1	100	C3
JCA24-400	2.0 - 4.0	42	1.5	1.4	10	20	2.0:1	200	FB2

-Specifications are at +25°C
-Operating temperature range is -20 to +70°C
-Operational range of -54 to +85°C is available

-DC Voltage is +12 to +15 VDC unless stated otherwise
-Specifications are subject to change

† Gain specified as min to max
*Power specified as Psat

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AML24L4401	2.0 - 4.0	44	1.5	0.8	10	20	2.0:1	150	C4
AML24L4801	2.0 - 4.0	48	1.5	1.3	10	20	1.8:1	150	C4
JCA24-600	2.0 - 4.0	54	1.5	1.4	10	20	2.0:1	300	C6P
JCA24-201	2.0 - 4.0	22	1	2	13	23	2.0:1	100	C2
JCA24-401	2.0 - 4.0	42	1.5	2	13	23	2.0:1	200	C4
AML24L1602	2.0 - 4.0	16	0.5	1.7	15	25	1.8:1	80	C2
ALS0204-24-15	2.0 - 4.0	24	1	2.2	15	25	2.0:1	140	STC-2
ALS0204-30-15	2.0 - 4.0	30	2	2.2	15	25	2.0:1	200	STC-2
AML24L3202	2.0 - 4.0	32	1	1.4	15	25	1.8:1	120	C3
JCA24-3000	2.0 - 4.0	40	1.5	0.9	15	25	2.0:1	250	FB2
AML24L4802	2.0 - 4.0	48	1.5	1.4	15	25	1.8:1	170	C4
JCA24-302	2.0 - 4.0	32	1	2	16	26	2.0:1	190	C3
JCA24-503	2.0 - 4.0	45	1.5	2	16	26	2.0:1	300	C6
AML24L1501	2.0 - 4.0	15	0.5	2.5	17	27	1.8:1	90	C2
JCA24-202	2.0 - 4.0	22	1	2	17	27	2.0:1	140	C2
AML24L3001	2.0 - 4.0	30	1	1.4	17	27	1.8:1	150	C3
AML24L4501	2.0 - 4.0	45	1.5	1.3	17	27	1.8:1	200	C4
AML24P1002	2.0 - 4.0	9	0.5	3.5	19	35	1.8:1	100	C2
AML24P1001	2.0 - 4.0	10	0.5	3	20	30	1.8:1	80	C2
AML24P1201	2.0 - 4.0	12	0.5	3	20	30	1.8:1	80	C2
AML24P1503	2.0 - 4.0	15-17	0.5	5	20	33	1.7:1	225	C2
AML24P2101	2.0 - 4.0	19	0.5	3.5	20	35	1.8:1	100	C2
ALS0204-20-20	2.0 - 4.0	20	1	2.5	20	30	2.0:1	220	STC-2
AML24P2801	2.0 - 4.0	28	1	1.5	20	30	1.8:1	150	C3
ALS0204-32-20	2.0 - 4.0	32	1	2.5	20	30	2.0:1	250	STC-2
AML24P4601	2.0 - 4.0	46	1.5	1.5	20	30	1.8:1	200	C4
ALS0204-50-20	2.0 - 4.0	50	1	2.5	20	30	2.0:1	300	STC-4
JCA24-204	2.0 - 4.0	20	1.5	3	23	33	2.0:1	350	C2
JCA24-304	2.0 - 4.0	30	1	2	23	33	2.0:1	300	C3
JCA24-505	2.0 - 4.0	44	1.5	2	23	33	2.0:1	480	C4
AML24P1501	2.0 - 4.0	15	0.5	3	25	35	1.8:1	150	C2
AML24P3001	2.0 - 4.0	30	1	2	25	35	1.8:1	200	C3
AML24P4602	2.0 - 4.0	46	1.5	1.5	25	35	1.8:1	250	C4
AML24P1203L	2.0 - 4.0	10-12	0.5	5	27	37	1.5:1	300	C3
AML24P1401	2.0 - 4.0	14	0.5	3	27	37	1.8:1	300	C2
AML24P3002	2.0 - 4.0	30	1	2	27	37	1.8:1	350	C3
AML24P4603	2.0 - 4.0	46	1.5	1.5	27	37	1.8:1	450	C4
AML24P3801	2.0 - 4.0	38	1.5	2	28	40	2.0:1	700	C4
AML24P1202	2.0 - 4.0	12	0.5	4	30	40	1.8:1	500	C2

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AML24P2501	2.0 - 4.0	25	1	3.5	30	40	1.8:1	580	C3
AML24P3802	2.0 - 4.0	33-40	1	4	30	40	1.8:1	575	C4
AML24P4001	2.0 - 4.0	40	1.5	2	30	40	1.8:1	650	C4
AML24P2001-2W	2.0 - 4.0	20	1	6	33	42	1.8:1	1050	C4
AML24P3501-2W	2.0 - 4.0	35	1.5	3.5	33	42	1.8:1	1130	C5
AML24P4002	2.0 - 4.0	40	2	3	33	43	2.0:1	1200	C6
AML24P5001	2.0 - 4.0	50	2	3	33	42	1.8:1	1180	C6
2.0 - 5.0 GHz									
AML25L2201	2.5 - 5.0	22	1	4	10	20	2.0:1	100	modK3
AML25P1401	2.0 - 5.0	14	0.25	4	20	30	1.5:1	100	SC2
2.0 - 6.0 GHz									
AML26L1401	2.0 - 6.0	14	0.5	2.5	10	20	1.8:1	50	SC2
AML26L2801	2.0 - 6.0	28	1	2.5	10	20	1.8:1	90	SC2
AML26L4201	2.0 - 6.0	42	1.5	3	10	20	1.8:1	130	SC3
AML26L3501	2.0 - 6.0	35-40	1	1.3	10	20	2.0:1	215	AFS4
AML26L1001	2.0 - 6.0	9-12	1	3.5	12	22	2.0:1	70	SC2
JCA26-401	2.0 - 6.0	36	1.5	4	13	23	2.0:1	250	XK4
AML26L1402	2.0 - 6.0	14	0.5	3	15	25	1.8:1	70	SC2
AML26L2802	2.0 - 6.0	28	1	3	15	25	1.8:1	110	SC2
ALS0206-30-15	2.0 - 6.0	30	1	3	15	22	2.0:1	140	STC-2
JCA26-3001	2.0 - 6.0	40	2	1.2	15	25	2.0:1	250	FB3
AML26L4202	2.0 - 6.0	42	1.5	3	15	25	1.8:1	150	SC3
ALA0206-71-17	2.0 - 6.0	70	N/A	4.5	15	N/A	2.0:1	550	STC-3
JCA26-4001	2.0 - 6.0	50	2	1.2	15	25	2.0:1	300	FB3
AML26L1301	2.0 - 6.0	13	0.5	3	17	27	1.8:1	80	SC2
AML26L2803	2.0 - 6.0	28	1	3	17	27	1.8:1	120	SC2
AML26L4203	2.0 - 6.0	42	1.5	3	17	27	1.8:1	160	SC3
AML26P1301	2.0 - 6.0	13	0.5	4	20	30	1.8:1	100	SC2
AML26P1403	2.0 - 6.0	14-18	2	4	20	30	2.0:1	200	SC2
AML26P2101	2.0 - 6.0	21-23	0.5	5	20	30	1.8:1	275	modK3
AML26P2801	2.0 - 6.0	28	1	3	20	30	1.8:1	140	SC2
AML26P2802	2.0 - 6.0	28	1	2	20	30	1.8:1	140	SC2
AML26P4201	2.0 - 6.0	42	1.5	3	20	30	1.8:1	180	SC3
AML26P2803	2.0 - 6.0	28-30	0.5	5	22	32	2.0:1	180	SC2
AML26P1101	2.0 - 6.0	11	0.5	4	23	33	1.8:1	150	SC2
AML26P2401	2.0 - 6.0	24	1	3	23	33	1.8:1	190	SC2

-Specifications are at +25°C
-Operating temperature range is -20 to +70°C
-Operational range of -54 to +85°C is available

-DC Voltage is +12 to +15 VDC unless stated otherwise
-Specifications are subject to change

† Gain specified as min to max
*Power specified as Psat

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AML26P2403	2.0 - 6.0	24	1	3	23	35	1.8:1	220	SC2
AML26P3801	2.0 - 6.0	38	1.5	3	23	33	1.8:1	240	SC3
AML26P1302	2.0 - 6.0	13.5-15.0	0.5	4	23	33	1.8:1	150	SC2
JCA26-406	2.0 - 6.0	31	1	4.5	25	35	2.0:1	675	C4
JCA26-506	2.0 - 6.0	39	1	4.5	25	35	2.0:1	800	C6
AML26P3301	2.0 - 6.0	33-35	0.75	5	26	33	1.8:1	550	modK4
AML26P1401	2.9 - 6.1	14	0.5	5.5	27	35	2.0:1	450	modK3
AML26P2402	2.9 - 6.1	24	1	4.5	27	35	2.0:1	525	modK4
AML26P2804	2.0 - 6.0	26	1	3	27	37	1.8:1	280	SC2
AML26P3501	2.0 - 6.0	35	2	3.5	29	39	1.8:1	1000	
AML26P0801	2.0 - 6.0	8	1	7	30	38	1.8:1	750	SC2
AML26P1801	2.0 - 6.0	18	1.5	7	30	38	1.8:1	1020	SCP2
AML26P2001	2.0 - 6.0	18 - 22	1.5	9	30	40	1.8:1	800	SCP2
AML26P3201	2.0 - 6.0	32	2	4	30	38	1.8:1	1150	SCP4
JCA26-509	2.0 - 6.0	35	1.5	7.5	31	41	2.0:1	1.3 A	C4
AML26P1802	2.0 - 6.0	18	2	7	33	38	1.8:1	1060	SCP3
AML26P3001-2W	2.0 - 6.0	28	2.5	6	33	38	1.8:1	1200	SCP5
APA0206-35-33	2.0 - 6.0	35	2	6	33	43	2.0:1	1800	SPC
AML26P4301	2.0 - 6.0	43	3	6	33	40	2.0:1	2000	SCP6
4.0 to 8.0 GHz									
AML37L2401	3.4 - 7.75	24-26	1	2.5	8	18	1.8:1	100	C3
AML48L1401	4.0 - 8.0	14	0.5	1.6	10	20	1.8:1	50	C2
JCA48-200	4.0 - 8.0	20	1	2	10	20	2.0:1	120	C2
AML48L2701	4.0 - 8.0	27	1	1.6	10	20	1.8:1	100	C3
AML48L2801	4.0 - 8.0	28	1.5	0.8	10	18	2.0:1	100	C3
AML48L3001	4.0 - 8.0	30	1	1.2	10	20	1.8:1	100	C3
AML48L3002	4.0 - 8.0	30	1	1	10	20	1.8:1	100	C3
JCA48-310	4.0 - 8.0	30	1	1.6	10	20	2.0:1	150	C3
AML48L4003	4.0 - 8.0	38	0.5	2	10	20	2.0:1	150	C4
AML48L4001	4.0 - 8.0	40	1.5	1.6	10	20	1.8:1	150	C4
AML48L4201	4.0 - 8.0	42	2	0.8	10	18	2.0:1	150	C3
JCA48-600	4.0 - 8.0	52	2	1.6	10	20	2.0:1	400	C6/P
AML48L5001	4.0 - 8.0	58	2	1.6	10	20	1.8:1	210	C5
AML48L2502	4.0 - 8.0	23-26	0.5	1.7	10	20	1.8:1	150	C3
AML48L2703	4.0 - 8.0	27-35	1	1.5	10	20	2.0:1	100	C3
AML48L1402	4.0 - 8.0	14	0.5	2	15	25	1.8:1	70	C2
AML48L2702	4.0 - 8.0	27	1	1.7	15	25	1.8:1	120	C3

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
JCA48-407	4.0 - 8.0	35	1.5	2	15	25	2.0:1	225	C4
AML48L4002	4.0 - 8.0	40	1	1.6	15	25	1.8:1	170	C4
AML48L5002	4.0 - 8.0	50	2	1.7	15	25	1.8:1	230	C5
AML48L2704	4.0 - 8.0	27-32	1	1.7	15	25	1.8:1	120	C3
JCA48-202	4.0 - 8.0	18	1	2.5	16	26	2.0:1	150	C2
AML48L1201	4.0 - 8.0	12	0.5	3	17	27	1.8:1	90	C2
AML48L2501	4.0 - 8.0	25	1	1.8	17	27	1.8:1	120	C3
AML48L3801	4.0 - 8.0	38	1.5	1.7	17	27	1.8:1	200	C4
AML48L5003	4.0 - 8.0	50	2	1.7	17	27	1.8:1	250	C5
AML48L3301	4.0 - 8.0	31-34	1	1.7	17	27	1.8:1	150	C3
ALS0408-30-18	4.0 - 8.0	30	0.5	2.5	18	28	2.0:1	230	STC-4
JCA48-203	4.0 - 8.0	18	1	3	19	29	2.0:1	200	C2
JCA48-303	4.0 - 8.0	27	1	2.5	19	29	2.0:1	250	C3
JCA48-403	4.0 - 8.0	36	1.5	2.5	19	29	2.0:1	300	C4
AML48P1001	4.0 - 8.0	10	0.5	3.5	20	30	1.8:1	80	C2
AML48P2501	4.0 - 8.0	25	1	2	20	30	1.8:1	155	C3
AML48P4001	4.0 - 8.0	40	1.5	2	20	30	1.8:1	150	C4
JCA48-504	4.0 - 8.0	44	1.5	2.5	22	32	2.0:1	400	C6
JCA48-105	4.0 - 8.0	14	1	5	23	33	2.0:1	200	C2
JCA48-4000	4.0 - 8.0	35	1.5	2.2	24	40	1.8:1	550	K4
AML48P1301	4.0 - 8.0	13	0.5	3.5	25	35	1.8:1	150	C2
AML48P2501L	4.0 - 8.0	25	1	3.2	25	35	1.8:1	185	C3
AML48P2601	4.0 - 8.0	26	1	2	25	35	1.8:1	300	C3
AML48P4002	4.0 - 8.0	40	1.5	2	25	35	1.8:1	275	C4
AML48P1201	4.0 - 8.0	12	0.5	3	27	37	1.8:1	300	C2
AML48P2301	4.0 - 8.0	23	1	4	27	37	1.8:1	450	C3
JCA48-306	4.0 - 8.0	24	1	3	27	37	2.0:1	700	C3
AML48P3601	4.0 - 8.0	36	1.5	2	27	37	1.8:1	450	C4
AML48P3502	4.0 - 8.0	32	1.5	5.5	28	42	2.0:1	900	C4
AML48P2201	4.0 - 8.0	21	1	4	30	40	1.8:1	550	C3
JCA48-209	4.0 - 8.0	24	1	6	30	38	2.0:1	1.0 A	C3
AML48P3501	4.0 - 8.0	35	1.5	2	30	40	1.8:1	700	C4
AML48P3503	4.0 - 8.0	33-40	1.25	3	30	37	1.8:1	750	C4
AML38P3501	3.7 - 8.4	35-38	1.25	3	30	38	1.8:1	675	C6
JCA48-409	4.0 - 8.0	38	1.5	6	30	38	2.0:1	825	C4
JCA48-509	4.0 - 8.0	44	1.5	6	30	38	2.0:1	1.0 A	C6
AML48P1601	4.0 - 8.0	16	1	6.5	33	42	2.0:1	1020	C4

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-Operational range of -54 to +85°C is available

-DC Voltage is +12 to +15 VDC unless stated otherwise
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† Gain specified as min to max
*Power specified as Psat

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AML48P2801	4.0 - 8.0	28	1.5	4.5	33	42	2.0:1	1150	C5
AML48P4201-2W	4.0 - 8.0	42	2	3	33	42	2.0:1	1200	C6
AML48P3001	4.0 - 8.0	30	2.5	5	36	44	2.0:1	2200	CP7
AML48P3004-4W	4.0 - 8.0	30	2.5	5	36*	44	2.0:1	2500	CP7
AML48P4201-4W	4.0 - 8.0	42	3	3	36	44	2.0:1	2260	CP7
5.0 - 13.0 GHz									
ALS0513-10-10	5.0 - 13.0	10	1	2.2	10	20	2.0:1	75	STC-2
ALS0513-20-10	5.0 - 13.0	20	1	2.5	10	20	2.0:1	100	STC-1
ALS0513-30-10	5.0 - 13.0	30	1.5	2.2	10	20	2.0:1	180	STC-2
ALS0513-20-15	5.0 - 13.0	20	1.5	2.2	15	25	2.0:1	150	STC-2
ALS0513-30-15	5.0 - 13.0	30	1.5	2.2	15	25	2.0:1	190	STC-3
ALS0513-40-15	5.0 - 13.0	40	1.5	2.2	15	20	2.0:1	240	STC-3
ALS0513-18-20	5.0 - 13.0	18	1.5	3	20	30	2.0:1	180	STC-2
ALS0513-27-20	5.0 - 13.0	27	1.5	3.5	20	30	2.0:1	200	STC-2
ALT0513-31-20	5.0 - 13.0	31	1.5	3.5	20	30	2.0:1	350	STC-5
JCA514-502	5.85 - 14.5	39	1.5	6	20	30	2.0:1	450	K6
ALS0513-46-20	5.0 - 13.0	46	1.5	3	20	30	2.0:1	290	STC-3
ALS0513-16-25	5.0 - 13.0	16	1.5	3.5	25	35	2.0:1	250	STC-2
ALS0513-25-25	5.0 - 13.0	25	1.5	4	25	35	2.0:1	400	STC-3
ALS0513-31-25	5.0 - 13.0	31	1.5	4	25	35	2.0:1	460	STC-4
ALS0513-39-25	5.0 - 13.0	39	1.5	4	25	35	2.0:1	520	STC-4
ALS0513-30-27	5.0 - 13.0	30	1.5	5	27	37	2.0:1	1150	STC-4
ALS0513-30-30	5.0 - 13.0	30	1.5	5	30	40	2.0:1	1200	SLC-3
6.0 – 12.0 GHz									
AML612L1401	6.0 - 12.0	17	2	2	0	10	2.0:1	80	K2
ALS0612-20-08	6.0 - 12.0	20	1	2.5	8	18	2.0:1	140	STC-2
AML612L1201	6.0 - 12.0	11.5	0.5	2	10	20	1.8:1	50	K2
AML612L2201	6.0 - 12.0	22	1	2	10	20	1.8:1	100	K3
AML612L3001	6.0 - 12.0	30	1.5	1.4	10	18	2.0:1	150	K3
AML612L3401	6.0 - 12.0	34	1.5	2	10	20	1.8:1	150	K4
AML612L4001	6.0 - 12.0	40	2	1.4	10	18	2.0:1	200	K4
AML612L4601	6.0 - 12.0	45	2	2	10	20	1.8:1	210	K5
ALS0612-50-10	6.0 - 12.0	50	1.5	2.5	10	20	2.0:1	295	STC-4
AML612L1202	6.0 - 12.0	10.5	0.5	2.3	15	25	1.8:1	70	K2
AML612L2202	6.0 - 12.0	20	1	2.3	15	25	1.8:1	120	K3

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
ALS0612-20-15	6.0 - 12.0	20	1	2.5	15	25	2.0:1	120	STC-2
ALS0612-29-15	6.0 - 12.0	29	1.5	2.5	15	25	2.0:1	160	STC-3
AML612L3402	6.0 - 12.0	30	1.5	2.3	15	25	1.8:1	170	K4
ALS0612-40-15	6.0 - 12.0	40	1.5	2.5	15	25	2.0:1	225	STC-2
AML612L4602	6.0 - 12.0	41	2	2.3	15	25	1.8:1	230	K5
AML612P4602	6.0 - 12.0	46	2	2.5	15	25	1.8:1	230	K5
AML612L1203	6.0 - 12.0	8	0.5	4	17	27	1.8:1	90	K2
AML612L2203	6.0 - 12.0	18	1	3	17	27	1.8:1	150	K3
AML612L3403	6.0 - 12.0	28	1.5	2.5	17	27	1.8:1	190	K4
AML612L4501	6.0 - 12.0	38.5	2	2.5	17	27	1.8:1	250	K5
AML612P1001	6.0 - 12.0	10	0.5	3.5	20	30	1.8:1	80	K2
AML612P2201	6.0 - 12.0	21	1	2.5	20	30	1.8:1	190	K3
AML612P2801	6.0 - 12.0	28	2	1.6	20	30	2.0:1	200	K4
AML612P3401	6.0 - 12.0	31	1.5	2.5	20	30	1.8:1	180	K4
AML612P4501	6.0 - 12.0	42	2	2.5	20	30	1.8:1	240	K5
AML612P2401	6.0 - 12.0	24-26	0.5	3	20	30	1.5:1	250	K4
ALT0612-24-23	6.0 - 12.0	24	1.5	4	23	30	2.0:1	400	STC-4
ALT0612-41-23	6.0 - 12.0	41	1.5	4	23	30	2.0:1	525	STC-5
AML612P1101	6.0 - 12.0	11	0.5	5	25	35	1.8:1	150	K2
AML612P2301	6.0 - 12.0	20	1	2.5	25	35	1.8:1	290	K3
AML613P2301	6.0 - 13.0	20	1	2.5	25	35	1.8:1	290	K3
AML612P3501	6.0 - 12.0	31	1.5	2.5	25	35	1.8:1	250	K4
AML612P4502	6.0 - 12.0	42	2	2.5	25	35	1.8:1	300	K5
AML612P1002	6.0 - 12.0	9	0.5	5	27	37	1.8:1	300	K2
AML612P2001	6.0 - 12.0	19	1	4.5	27	37	1.8:1	350	K3
AML612P3201	6.0 - 12.0	30	1.5	2.5	27	37	1.8:1	400	K4
AML612P4401	6.0 - 12.0	40	2	2.5	27	37	1.8:1	450	K5
AML612P1501	6.0 - 12.0	15	1	6	30	39	1.8:1	750	K3
AML612P2202	6.0 - 12.0	22	1.5	5	30	39	1.8:1	850	K4
APA0612-30-30	6.0 - 12.0	30	2	5	30	37	2.0:1	850	SLC-2
AML612P3202	6.0 - 12.0	35	2	3	30	39	1.8:1	900	K6
AML612P4201	6.0 - 12.0	42	2.2	3	30	39	1.8:1	940	K7
AML612P2002	6.0 - 12.0	20	2	5.5	33	41	2.0:1	1500	KP8
AML612P3001	6.0 - 12.0	30	2.5	4	33	41	2.0:1	1580	KP8
APA0612-30-33	6.0 - 12.0	30	1.5	5	33	43	2.0:1	1800	SPC
AML612P3502	6.0 - 12.0	35	2.5	4	33	41	2.0:1	1850	KP8

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-Operational range of -54 to +85°C is available

-DC Voltage is +12 to +15 VDC unless stated otherwise
-Specifications are subject to change

† Gain specified as min to max
*Power specified as Psat

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
6.0 - 18.0 GHz									
AML618L1001	6.0 - 18.0	10	0.75	2.2	10	20	1.8:1	60	K2
AML617L1801	6.0 - 17.0	16-20	1.5	2.3	10	20	2.0:1	100	K3
AML618L1801	6.0 - 18.0	18	1	2.5	10	20	1.8:1	120	K3
AML618L1803	6.0 - 18.0	18	1	2.5	10	20	1.8:1	130	K3
AML618L2801	6.0 - 18.0	28	1.5	2.5	10	20	1.8:1	180	K4
AML618L2803	6.0 - 18.0	28	2.5	2.2	10	20	1.8:1	180	K4
AML618L3001	6.0 - 18.0	30	2	2.2	10	20	1.8:1	175	K4
AML618L3003	6.0 - 18.0	30	2	3	10	20	2.0:1	175	K4
AML618L3601	6.0 - 18.0	36	2	2.6	10	20	1.8:1	230	K5
AML618L4501	6.0 - 18.0	43	2.2	2.2	10	20	2.0:1	250	K5
AML618L4401	6.0 - 18.0	46	2.5	2.6	10	20	1.8:1	290	K5
AML618L1002	6.0 - 18.0	9	1	2.2	13	23	1.8:1	75	K2
AML618L1003	6.0 - 18.0	9	0.5	3	13	23	1.8:1	75	K2
AML618L1802	6.0 - 18.0	18	1	2.5	13	23	1.8:1	120	K3
AML618L1804	6.0 - 18.0	18-23	1	2	13	23	1.8:1	120	K3
AML618L2701	6.0 - 18.0	27	1.5	2.5	13	23	1.8:1	180	K4
AML618L2502-TC	6.0 - 18.0	30	1.5	2.5	13	23	1.8:1	280	K6
AML618L3602	6.0 - 18.0	36	2	2.5	13	23	1.8:1	230	K5
AML618L3601-TC	6.0 - 18.0	36-39	2	2.5	13	23	1.8:1	280	K5
ALS0618-28-15	6.0 - 18.0	28	1.5	3.2	15	25	2.0:1	200	STC
ALS0618-32-15	6.0 - 18.0	32	1.5	3.2	15	25	2.0:1	275	STC
AML618L3604	6.0 - 18.0	32-38	1.5	5	15	25	2:1	320	K5
ALS0618-38-15	6.0 - 18.0	38	1.5	3	15	25	2.0:1	350	STC
ALS0618-44-15	6.0 - 18.0	44	1.5	3	15	25	2.0:1	420	STC
ALS0618-28-16	6.0 - 18.0	28	1.5	3.2	16	26	2.0:1	200	STC-3
AML618L1501	6.0 - 18.0	15	1	2.8	17	27	1.8:1	150	K3
AML618L2802	6.0 - 18.0	25	1.5	2.8	17	27	1.8:1	200	K4
AML618L2501-TC	6.0 - 18.0	25	1.5	2.8	17	27	1.8:1	225	K5
AML618L3603	6.0 - 18.0	35	2	2.5	17	27	1.8:1	250	K5
AML618L3605	6.0 - 18.0	35	3	3.5	17	28	2.0:1	125	K2
AML618L1701	6.0 - 18.0	17-20	1	2.8	17	27	1.8:1	150	K3
AML618L1702	6.0 - 18.0	16-19	0.5*	6	18	28	2.0:1	220	K3
AML618P0801	6.0 - 18.0	8	0.75	4	20	30	2.0:1	200	K2
AML618P1503	6.0 - 18.0	15-20	2	4	20	30	2.0:1	200	K3
AML618P2401	6.0 - 18.0	25	1.5	3	20	30	2.0:1	250	K4
ALS0618-30-20	6.0 - 18.0	30	1.5	3.5	20	30	2.0:1	370	STC
ALS0618-38-20	6.0 - 18.0	38	1.5	3.5	20	30	2.0:1	450	STC

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
ALN0618-42-20	6.0 - 18.0	42	1.5	2.5	20	30	2.0:1	350	STC-4
ALS0618-20-22	6.0 - 18.0	20	2	4.5	22	32	2.0:1	250	SLC
AML618P1501	6.0 - 18.0	16	1	5	25	35	1.8:1	230	K3
AML618P2501	6.0 - 18.0	25	1.5	3	25	35	1.8:1	280	K4
AML618P3401	6.0 - 18.0	35	2	3	25	35	1.8:1	330	K5
AML618P4501	6.0 - 18.0	45	2.5	3	25	35	1.8:1	390	K6
AML618P1804	6.0 - 18.0	16-20	1	5	25	33	2.0:1	230	K3
AML618P3201-TC	6.0 - 18.0	29-34	1.5	3.5	25	34	1.8:1	385	K6
ALS0618-30-25	6.0 - 18.0	30	1.5	5	25	35	2.0:1	650	STC
ALS0618-39-25	6.0 - 18.0	39	1.5	5	25	35	2.0:1	475	STC
AML618P4201-TC	6.0 - 18.0	39-45	2	3.5	25	33	1.8:1	500	K8
AML618P1201	6.0 - 18.0	11	1	6	27	37	1.8:1	450	K3
AML618P2001	6.0 - 18.0	19	1.5	5	27	37	1.8:1	530	K4
AML618P2801	6.0 - 18.0	28	2	3	27	37	1.8:1	580	K5
APA0618-30-27	6.0 - 18.0	30	2	7.5	27	37	2.0:1	950	SLC
AML618P3801	6.0 - 18.0	38	2.5	3	27	37	1.8:1	620	K6
AML618P3202	6.0 - 18.0	32	2.5	3.5	29	37	1.8:1	1200	KP8
AML618P1001	6.0 - 18.0	10	1	7	30	38	1.8:1	780	K3
AML618P1802	6.0 - 18.0	18	1.5	6	30	37	1.8:1	1050	K5
AML618P1801	6.0 - 18.0	18	1.5	6	30	37	1.8:1	910	K4
AML618P3001	6.0 - 18.0	28	1.5	5	30	36	2.0:1	950	K6
AML618P2601	6.0 - 18.0	28	1.5	6	30	37	1.8:1	990	K6
AML618P3005	6.0 - 18.0	30	2	8	30	35	2.0:1	1050	K9
AML618P3006	6.0 - 18.0	30	1.25	8	30	35	2.0:1	1550	K9
AML618P3301	6.0 - 18.0	33	2	3.3	30	37	1.8:1	1040	K7
AML618P4001	6.0 - 18.0	42	2.5	3	30	37	1.8:1	1080	K8
AML618P2301	6.0 - 18.0	22-26	1.5	7	30	37	2.0:1	1075	SP10
AML618P3004	6.0 - 18.0	30 - 36	2	6	30	37	1.8:1	1000	K7
AML618P3501	6.0 - 18.0	33-36	1.5	6	30	35	2.0:1	1150	K7
AML618P3601	6.0 - 18.0	34	3.5	5	32	38	2.5:1	1500	KP8
AML618P2002	6.0 - 18.0	20	1.5	7	33	40	2.0:1	1650	KP8
AML618P2802	6.0 - 18.0	28	2	6	33	40	2.0:1	1750	KP8
AML618P3002	6.0 - 18.0	30	2.25	5	33	38	2.2:1	2250	KP8
AML618P3502	6.0 - 18.0	35	2.5	4	33	40	2.0:1	2300	KP8
JCA618-4001	6.0 - 18.0	40	1.5	5	33	40	2.0:1	1900	21925
AML618P4202	6.0 - 18.0	42	2.5	3	34	42	1.8:1	2200	KP8

-Specifications are at +25°C
-Operating temperature range is -20 to +70°C
-Operational range of -54 to +85°C is available

-DC Voltage is +12 to +15 VDC unless stated otherwise
-Specifications are subject to change

† Gain specified as min to max
*Power specified as Psat

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
7.0 - 14.0 GHz									
JCA714-303	7.0 - 14.0	23	1.5	4	15	25	2.0:1	170	K3
JCA714-503	7.0 - 14.0	34	1.5	4	15	25	2.0:1	295	K6
8.0 - 12.0 GHz									
AML812L2301	8.0 - 12.0	23	3	4	5	15	2.0:1	110	K2
AML812L1101	8.0 - 12.0	11	0.25	2.2	10	20	1.8:1	50	K2
JCA812-200	8.0 - 12.0	16	1	2.5	10	20	2.0:1	100	K2
AML812L2201	8.0 - 12.0	22	0.5	2.2	10	20	1.8:1	100	K3
AML812L3003	8.0 - 12.0	30	1.5	1.3	10	18	2.0:1	150	K3
AML812L3301	8.0 - 12.0	33	1	2.2	10	20	1.8:1	150	K4
AML812L4401	8.0 - 12.0	44	1.25	2.2	10	20	1.8:1	190	K5
AML812L2203	8.0 - 12.0	21-23	0.5	2	10	20	1.8:1	100	K3
JCA812-600	8.0 - 12.0	48	2	2.2	10	20	2.0:1	300	XK6/P
AML812L1102	8.0 - 12.0	10.5	0.25	2.3	15	25	1.8:1	80	K2
AML812L2202	8.0 - 12.0	21	0.5	2.2	15	25	1.8:1	120	K3
AML812L3302	8.0 - 12.0	32	1	2.2	15	25	1.8:1	160	K4
AML812L4402	8.0 - 12.0	43	1.25	2.2	15	25	1.8:1	200	K5
AML812L4503	8.0 - 12.0	45	1.5	2.2	15	25	1.8:1	300	K6
AML812L0801	8.0 - 12.0	8	0.25	4	17	27	1.8:1	100	K2
AML812L1801	8.0 - 12.0	19	0.5	2.4	17	27	1.8:1	140	K3
AML812L3001	8.0 - 12.0	30	1	2.4	17	27	1.8:1	180	K4
AML812L3002	8.0 - 12.0	30	1	3	17	27	1.8:1	180	K4
AML812L4101	8.0 - 12.0	41	1.25	2.4	17	27	1.8:1	220	K5
AML812P1101	8.0 - 12.0	11	0.25	4	20	30	1.8:1	110	K2
AML812P2101	8.0 - 12.0	21	0.5	2.5	20	30	1.8:1	170	K3
AML812P2801	8.0 - 12.0	28	1.5	1.5	20	30	2.0:1	200	K4
AML812P3201	8.0 - 12.0	32	1	2.5	20	30	1.8:1	210	K4
AML812P4001	8.0 - 12.0	40	2	1.4	20	30	2.0:1	230	K4
AML812P4201	8.0 - 12.0	43	1.25	2.5	20	30	1.8:1	250	K5
AML812P3204	8.0 - 12.0	32	1	3	23	33	1.8:1	240	K4
AML812P1102	8.0 - 12.0	11	0.25	5	25	35	1.8:1	150	K2
AML812P2102	8.0 - 12.0	21	0.5	2.8	25	35	1.8:1	200	K3
AML812P2103	8.0 - 12.0	21	1.5	3.5	25	35	1.8:1	300	K3
AML812P3202	8.0 - 12.0	32	1.25	2.5	25	35	1.8:1	240	K4
AML812P4202	8.0 - 12.0	42	1.5	2.5	25	35	1.8:1	280	K5
AML812P4204	8.0 - 12.0	42	1.5	3	25	35	1.8:1	280	K5
AML812P2701	8.0 - 12.0	25 - 28	0.5	4	26	36	1.4:1	500	K4
AML812P2703	8.0 - 12.0	25-30	0.5		26	35	1.5:1	500	K4
AML812P1001	8.0 - 12.0	9	0.25	5	27	37	1.8:1	320	K2

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AML812P2001	8.0 - 12.0	20	0.5	4.5	27	37	1.8:1	400	K3
AML812P3102	8.0 - 12.0	28	0.5	5	27	36	1.6:1	500	
AML812P3101	8.0 - 12.0	31	1.25	2.5	27	37	1.8:1	440	K4
AML812P4203	8.0 - 12.0	42	1.5	2.5	27	37	1.8:1	480	K5
AML812P1501	8.0 - 12.0	15	0.75	5.5	30	39	1.8:1	780	K3
AML812P2601	8.0 - 12.0	26	1	4.5	30	39	1.8:1	860	K5
AML812P2602	8.0 - 12.0	26	1.5	4.5	30	36	1.8:1	860	K5
AML812P3203	8.0 - 12.0	32	1.5	5	30	38	2.0:1	950	K6
AML812P3701	8.0 - 12.0	37	1.25	3	30	39	1.8:1	920	K6
AML812P4801	8.0 - 12.0	48	1.5	3	30	39	1.8:1	960	K7
AML812P2001-2W	8.0 - 12.0	20	2	5.5	33	41	2.0:1	1500	KP4
AML812P3001	8.0 - 12.0	30	2.5	4	33	41	2.0:1	1580	KP8
AML812P3501	8.0 - 12.0	35	2.5	4	33	41	2.0:1	1850	KP8
8.0 – 18.0 GHz									
AML818L1001	8.0 - 18.0	10	0.5	2.2	10	20	1.8:1	50	K2
AML818L1801	8.0 - 18.0	18	1	2.2	10	20	1.8:1	90	K3
AML818L2801	8.0 - 18.0	28	1.5	2.2	10	20	1.8:1	160	K4
AML818L3001	8.0 - 18.0	30	1.5	2.2	10	20	1.8:1	160	K4
AML818L3601	8.0 - 18.0	36	2	2.2	10	20	1.8:1	210	K5
AML818L2003	8.0 - 18.0	20-27	1.5	2.5	10	20	1.8:1	120	K3
AML818L1002	8.0 - 18.0	10	0.5	3	13	23	1.8:1	70	K2
AML818L1802	8.0 - 18.0	18	1.5	2.2	13	20	1.8:1	110	K3
AML818L2701	8.0 - 18.0	27	1.5	2.2	13	23	1.8:1	180	K4
JCA818-603	8.0 - 18.0	30	1.5	6	15	25	2.0:1	375	K6
AML818L1501	8.0 - 18.0	18	1	2.8	17	27	1.8:1	180	K3
AML818L2802	8.0 - 18.0	27	1.3	2.7	17	27	1.8:1	200	K4
AML818L3602	8.0 - 18.0	36	1.5	2.2	17	27	1.8:1	230	K5
AML818L3603	8.0 - 18.0	40	2.2	2.5	17	27	1.8:1	200	K5
AML818P1501	8.0 - 18.0	17	1.2	3	20	30	1.8:1	175	K3
AML818P2504	8.0 - 18.0	25	1.5	2.5	20	30	1.8:1	260	K4
AML818P3501	8.0 - 18.0	35	2	2.5	20	30	1.8:1	300	K5
AML818P4501	8.0 - 18.0	45	2.5	2.8	20	30	1.8:1	330	K6
AML818P4401	8.0 - 18.0	44	1.5	3.5	23	33	2.0:1	350	K6
AML818P0801	8.0 - 18.0	8	0.5	4.5	25	35	1.8:1	150	K2
AML818P1601	8.0 - 18.0	16	1	4.5	25	35	1.8:1	250	K3
AML818P2503	8.0 - 18.0	25	1.5	2.5	25	35	1.8:1	300	K4
AML818P2501	8.0 - 18.0	25	1.5	2.5	25	35	1.8:1	300	K4

-Specifications are at +25°C
-Operating temperature range is -20 to +70°C
-Operational range of -54 to +85°C is available

-DC Voltage is +12 to +15 VDC unless stated otherwise
-Specifications are subject to change

† Gain specified as min to max
*Power specified as Psat

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AML818P3502	8.0 - 18.0	35	2	2.5	25	35	1.8:1	350	K5
AML818P4502	8.0 - 18.0	45	2.5	2.5	25	35	1.8:1	400	K6
AML818P1003	8.0 - 18.0	10-15	2	5	27	34	2.0:1	475	K3
AML818P1502	8.0 - 18.0	15	1	6	27	37	1.8:1	450	K3
AML818P2502	8.0 - 18.0	25	1.5	3.5	27	37	1.8:1	520	K4
AML818P3503	8.0 - 18.0	35	2	2.5	27	37	1.8:1	580	K5
AML818P4503	8.0 - 18.0	45	2.5	2.5	27	37	1.8:1	630	K6
AML818P3201	8.0 - 18.0	32	2	6	28	38	2.0:1	990	K7
AML818P1201	8.0 - 18.0	10	1	7	30	38	1.8:1	800	K3
AML818P2001	8.0 - 18.0	18	1.5	6	30	38	1.8:1	950	K4
AML818P2801	8.0 - 18.0	26	2	6	30	38	1.8:1	1050	K6
AML818P3801	8.0 - 18.0	36	2.5	3	30	38	1.8:1	1100	K7
AML818P3802	8.0 - 18.0	36	2.5	3	30*	35	1.8:1	1100	K7
AML818P3803	8.0 - 18.0	33-40	1.5	3.5	30	37	2.0:1	1150	K7
AML818P3202	8.5 - 18.5	32	2	6	31	38	2.0:1	1100	K7
AML818P2002	8.0 - 18.0	20	1.5	7	33	41	2.0:1	1650	KP8
AML818P2802	8.0 - 18.0	28	2	6	33	42	2.0:1	1750	KP8
AML818P3504	8.0 - 18.0	35	2.5	4	33	41	2.0:1	1850	KP8
AML818P4003	8.0 - 18.0	40	2.5	4	33	41	2.0:1	2150	KP8
10.0 - 20.0 GHz									
AML1020L1001	10.0 - 20.0	9	0.5	4	9	19	2.0:1	60	K2
AML1020L1801	10.0 - 20.0	18	1	4	9	19	2.0:1	100	K3
AML1020L2703	10.0 - 20.0	27	1.25	4	9	19	2.0:1	150	K4
AML1020L3601	10.0 - 20.0	36	1.5	4	9	19	2.0:1	200	K5
JCA1020-300	10.0 - 20.0	18	2.5	3.5	10	20	2.0:1	120	KM4
JCA1020-500	10.0 - 20.0	30	2.5	3.5	10	20	2.0:1	200	KM4
AML1020L1002	10.0 - 20.0	9	0.5	4	13	23	2.0:1	80	K2
AML1020L1802	10.0 - 20.0	18	1	4	13	23	2.0:1	120	K3
AML1020L2702	10.0 - 20.0	27	1.25	4	13	23	2.0:1	170	K4
AML1020L3602	10.0 - 20.0	36	1.5	4	13	23	2.0:1	230	K5
AML1020L2701	10.0 - 20.5	27-31	1	4.5	17	27	2.0:1	220	K5
AML1018P1601	10.0 - 18.0	16	1.5	6	20	32	1.8:1	200	K2
AML1020P1801	10.0 - 20.0	18	1	4	20	30	2.0:1	170	K3
AML1020P2002	10.0 - 20.0	20	2	8	20	28	2.0:1	330	K4
AML1020P2701	10.0 - 20.0	27	1.25	4	20	30	2.0:1	210	K4
AML1020P3601	10.0 - 20.0	36	1.5	4	20	30	2.0:1	250	K5
AML1020P1802	10.0 - 20.0	18	1	5.5	24	34	2.0:1	220	K3
AML1020P2302	10.0 - 20.0	23	1.5	5	24	30	2.0:1	350	K4

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AML1020P2702	10.0 - 20.0	27	1.25	4	24	34	2.0:1	260	K4
AML1020P3602	10.0 - 20.0	36	1.5	4	24	34	2.0:1	350	K5
AML1020P1501	10.0 - 20.0	15	2	7	27	36	2.0:1	800	K4
11.0 - 20.0 GHz									
JCA1118-302	11.0 - 18.0	24	1.5	4.7	13	23	2.0:1	180	K3
AML1120P4501-TC	11.8 - 20.2	45	2	5	25	32	2.0:1	650	K9
AML1120P2801	11.0 - 20.0	28	2.5	5	28	33	2.0:1	850	K6
11.0 - 23.0 GHz									
AML1123L1002	11.0 - 23.0	8	0.5	3.5	13	23	2.0:1	70	K2
AML1123L1602	11.0 - 23.0	16	1	4	13	23	2.0:1	110	K3
AML1123L2502	11.0 - 23.0	24	1.25	4	13	23	2.0:1	160	K4
AML1123L3402	11.0 - 23.0	32	1.5	4	13	23	2.0:1	200	K5
AML1123P1501	11.0 - 23.0	14	1	4	18	28	2.0:1	140	K3
AML1123P2301	11.0 - 23.0	22	1.5	4	18	28	2.0:1	190	K4
AML1123P3001	11.0 - 23.0	30	2	4	18	28	2.0:1	240	K5
AML1123P3601-TC	11.0 - 23.0	34-40	2	5	20	28	2.0:1	400	K8
AML1124P2501-TC	11.5 - 24.0	25	2.2	5	21	29	1.8:1	300	K7
AML1123P2401	11.0 - 23.0	24	1.5	4	24	30	2.0:1	250	K4
AML1123P3301	11.0 - 23.0	33	2	4	24	30	2.0:1	320	K5
12.0 - 18.0 GHz									
AML1218L1001	12.0 - 18.0	10	1	2.2	10	20	1.8:1	50	K2
AML1218L2003	12.0 - 18.0	20	1.5	1.8	10	20	1.8:1	130	K3
JCA1218-300	12.0 - 18.0	20	1	2.8	10	20	2.0:1	120	K4
JCA1218-400	12.0 - 18.0	28	1.5	2.8	10	20	2.0:1	160	K4
ALS1218-28-10	12.0 - 18.0	28	1.5	2.2	10	20	2.0:1	150	STC
JCA1218-500	12.0 - 18.0	35	1.5	2.8	10	20	2.0:1	200	K6
JCA1218-600	12.0 - 18.0	42	2	2.8	10	20	2.0:1	240	K4
JCA1218-801	12.0 - 18.0	42	2	4	10	20	2.0:1	400	K6
AML1218L4401	12.0 - 18.0	45	2	2.5	10	20	1.8:1	230	K5
JCA1218-700	12.0 - 18.0	48	2.5	2.8	10	20	2.0:1	450	K6
JCA1218-5001	12.0 - 18.0	48	1.5	1.9	10	20	2.0:1	250	K4
AML1218L4001	12.0 - 18.0	40	1.5	2	11	21	1.8:1	160	K5
ALT1218-20-12S	12.0 - 18.0	20	1	4.3	12	22	2.0:1	290	SLC-2
AML1218L2501	12.0 - 18.0	25	2	2.5	12	20	1.8:1	130	K3
ALS1218-25-13	12.0 - 18.0	25	1.5	2	13	23	2.0:1	190	STC

-Specifications are at +25°C
-Operating temperature range is -20 to +70°C
-Operational range of -54 to +85°C is available

-DC Voltage is +12 to +15 VDC unless stated otherwise
-Specifications are subject to change

† Gain specified as min to max
*Power specified as Psat

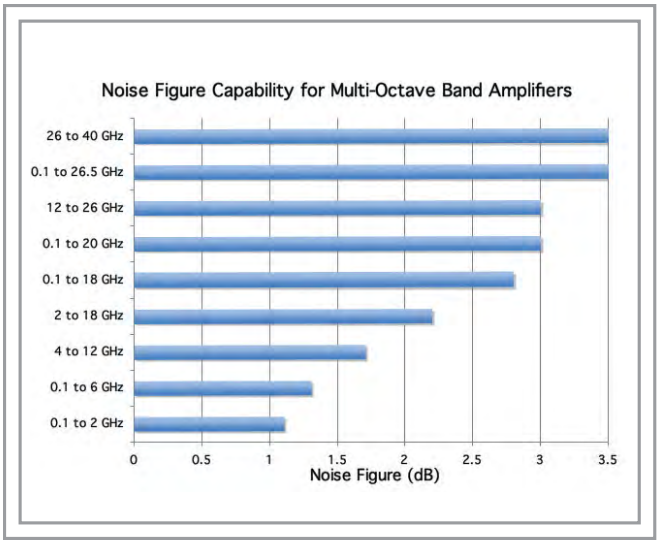
Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
ALS1218-38-15	12.0 - 18.0	38	1.5	2.2	15	25	2.0:1	350	STC
ALS1218-44-15	12.0 - 18.0	44	1.5	2.2	15	25	2.0:1	420	STC
AML1218P2601	12.0 - 18.0	26-28	0.5	3.5	20	31	1.5:1	275	K4
ALS1218-30-20	12.0 - 18.0	30	1.5	2.5	20	30	2.0:1	370	STC
JCA1218-804	12.0 - 18.0	39	2	5	20	30	2.0:1	600	K6
JCA1218-305	12.0 - 18.0	15	1.5	4.5	23	33	2.0:1	350	K4
AML1218P2504	12.0 - 18.0	23.5-26.5	1	5.5	23	33	1.8:1	300	K4
JCA1218-505	12.0 - 18.0	24	1.5	4	23	33	2.0:1	600	K4
JCA1218-406	12.0 - 18.0	18	1.5	4	25	35	2.0:1	650	K4
JCA1218-506	12.0 - 18.0	22	1.5	4	25	35	2.0:1	700	K4
AML1218P2701	12.0 - 18.0	27	2	6	25	34	2.0:1	300	K4
JCA1218-606	12.0 - 18.0	27	2	5	25	35	2.0:1	750	K4
ALS1218-30-25	12.0 - 18.0	30	1.5	5	25	35	2.0:1	650	STC
JCA1218-806	12.0 - 18.0	35	2	4	25	35	2.0:1	850	K6
AML1218P3201	12.0 - 18.0	32	1	7	27	35	2.0:1	580	K6
AML1218P3202	12.0 - 18.4	30-34	1.5	5	27	35	2.0:1	580	K6
AML1216P3801	12.0 - 16.0	38	3	6	28	40	2.0:1	1250	K5
AML1218P3001	12.0 - 18.0	30	2	6	30	35	2.0:1	1000	K6
AML1218P3601	12.0 - 18.0	34	3.5	5	32	38	2.5:1	1500	KP8
AML1218P3602	12.0 - 18.0	36	3.5	5	35	40	2.0:1	3000	KP8
12.0 - 26.0 GHz									
AML1226L3301	12.0 - 26.5	33	2	3	8	16	2.5:1	200	B4
AML1328P2401	13.3 - 27.0	24	2	5	15	25	2.0:1	320	KA5
AML1226P2701	12.5 - 26.5	27	2.5	6	23	27	2.0:1	450	KA2
AML1220P2201	12.0 - 20.0	22	1.5	3.5	23	30	2.0:1	300	K4
AML1226P2702	12.5 - 26.5	26	2.5	6	26	30	2.0:1	750	KA3
AML1220P1801-TC	11.8 - 20.2	16-22	1.75	8	26	34	2.0:1	500	K6
14.0 - 28.0 GHz									
AML1424L1601	14.0 - 24.0	16	1	3.5	10	18	1.8:1	100	K3
AML1428L1601	14.0 - 28.0	16	2	4	10	17	1.8:1	100	K2
AML1424L2401	14.0 - 24.0	24	1.25	4	10	18	1.8:1	150	K3
AML1424L1602	14.0 - 24.0	16	1	4	13	20	1.8:1	120	K2
AML1424L2402	14.0 - 24.0	24	1.25	4	13	20	1.8:1	170	K3
AML1525L2501	15.0 - 25.0	30	2	2.8	13	20	2.0:1	180	B3
AML1424P2201	14.0 - 24.0	22	1.25	4.5	20	30	1.8:1	240	K4
AML1524P3002L	15.0 - 24.0	28	2.5	6	20	28	2.0:1	280	
AML1424P3001	14.0 - 24.0	30	1.5	4	20	30	1.8:1	300	K5

Model Number	Frequency Range (GHz)	Gain (dB min)	Flatness (± dB max)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AML1424P2202	14.0 - 24.0	22	1.25	4.5	23	30	1.8:1	340	K4
AML1424P3002	14.0 - 24.0	30	1.5	4	23	30	1.8:1	400	K5
AML1524P2002	15.0 - 24.0	20	1.25	6	24	31	2.0:1	300	K4
AML1727P3001	17.0 - 27.0	30	2.5	8	27	33	2.0:1	1800	KA3
18.0 - 32.0 GHz									
AML1832L2001	18.0 - 32.0	20	1.5	4	8	15	1.8:1	120	K2
AML1832L4001	18.0 - 32.0	40	2.5	4	8	15	1.8:1	240	K3
AML1832L2002	18.0 - 32.0	18	2	3	10	14	2.0:1	80	K2
ALS1826-22-10	18.0 - 26.5	22	1.25	4.5	10	20	2.2:1	200	STK
ALS1826-27-10	18.0 - 26.5	27	1.25	4.5	10	20	2.2:1	300	STK
ALS1826-28-12	18.0 - 26.5	28	1.5	4.5	12	22	2.2:1	260	STK
ALS1826-35-12	18.0 - 26.5	35	1.75	4.5	12	22	2.2:1	310	STK
ALS1826-41-12	18.0 - 26.5	41	2	4.5	12	22	2.2:1	390	STK
ALS1826-20-15	18.0 - 26.0	20	1.5	4.5	15	25	2.2:1	350	STK-3
ALS1826-25-15	18.0 - 26.5	25	1.25	4.5	15	25	2.0:1	375	STK
AML1832L2801	18.0 - 32.0	28	2.5	4	15	22	1.8:1	330	KA3
ALS1826-31-15	18.0 - 26.5	31	1.75	4.5	15	25	2.2:1	500	STK
ALS1826-30-20	18.0 - 26.5	30	2	6	20	30	2.2:1	675	SLK
ALS1826-27-23	18.0 - 26.5	27	1.75	5.5	23	33	2.2:1	825	STK
ALS1826-20-25	18.0 - 26.5	20	1.75	7.5	25	35	2.2:1	775	STK
ALS1826-25-25	18.0 - 26.5	25	1.75	7.5	25	35	2.2:1	850	STK
ALS1826-27-25	18.0 - 26.5	27	1.75	7	25	35	2.2:1	1450	STK
ALS1826-27-27	18.0 - 26.5	27	1.75	7	27	37	2.2:1	2700	STK-6P
ALS1826-30-27	18.0 - 26.0	30	2	7.5	27	35	2.2:1	1800	STK-6 O/L
APA1826-30-29	18.0 - 26.0	30	2	8	29	39	2.2:1	2500	STK-6P
24.0 - 40.0 GHz									
AML2640L3501	26.0 - 40.0	35	3	5	7	14	2.0:1	250	KA3
AML2640L3201	26.0 - 40.0	30	2	4.5	10	17	2.0:1	160	KA3
JCA2640-4000	26.0 - 40.0	37	3.5	3	10	20	2.5:1	275	KM4-K
ALS2640-41-10	26.5 - 40.0	41	2	5	10	20	2.5:1	540	STK
ALS2640-20-14	26.5 - 40.0	20	2.5	7	14	24	2.5:1	550	STK
ALS2640-26-14	26.5 - 40.0	26	2.5	7	14	24	2.5:1	625	STK
AML2640L1802	26.0 - 40.0	18	1.5	5.5	15	25	2.0:1	220	002-0803
AML2440P3002	24.0 - 40.0	28	2.5	5	19	27	2.0:1	400	002-0846
AML2640P4501	26.0 - 40.0	48	3	5.5	19	28	2.0:1	460	KA4

-Specifications are at +25°C
-Operating temperature range is -20 to +70°C
-Operational range of -54 to +85°C is available

-DC Voltage is +12 to +15 VDC unless stated otherwise
-Specifications are subject to change

† Gain specified as min to max
*Power specified as Psat



Multi-Octave

Connectorized Microwave Amplifiers

Multi-octave distributed amplifiers provide the highest gain-bandwidth product, by making use of the additive amplification process inside two reactive transmission lines. All designs involve a careful choice of devices, the number of devices and their location in the circuit. Particular attention is given to integrate all parasitic reactive components of active devices into the transmission lines that support them in order to offset any bandwidth limiting effects. Outstanding performances have been achieved regarding gain flatness, noise figure and output power.

Model Number	Freq. Range (GHz)	Gain (dB min)	Flat. (± dB max)	NF (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
0.010 - 6.0 GHz									
JCA006-201	0.01 - 6.0	32	2	5	0	10	2.0:1	310	K3
AML0013L3001	0.01 - 3.0	28	1.5	4.0*	10	20	2.0:1	210	modK4
AML0016L0901	0.01 - 6.0	9	0.5	3.5*	12	24	2.0:1	80	B2
AML0016L1801	0.01 - 6.0	18	1	3.5*	12	24	2.0:1	140	B2
AML0016L2801	0.01 - 6.0	28	1.5	3.5*	12	24	2.0:1	180	B3
AML0016L3801	0.01 - 6.0	38	2	3.5*	12	24	2.0:1	220	B4
JCA001-205	0.01 - 1.0	30	1.5	5	15	25	2.0:1	350	K2
JCA0103-207	0.1 - 3.0	21	1.5	5	20	30	2.0:1	390	K2
AML0012P2001	0.01 - 2.0	21	1	3.2*	23*	36	2.0:1	480	modK4
AML0013P2001	0.01 - 3.0	21	1	3.2*	23**	34	2.0:1	480	modK4
AML0016P1501	0.01 - 6.0	15	1.7	5.5*	23*	30	2.0:1	400	modK3
AML0016P2001	0.01 - 6.0	21	1	3.2*	23*	34	2.0:1	480	modK4
AML0016P0901	0.01 - 6.0	9	1*	7.5*	25*	34	2.0:1	320	C2
0.02 - 0.5 GHz									
BR0502011	0.02 - 0.5	13	0.5	5	22	40	2.0:1	200	C2
0.02 - 2.5 GHz									
AML0022L1201	0.02 - 2.5	11	0.5	2.0*	10	20	2.0:1	60	B2
AML0022L2401	0.02 - 2.5	22	0.5	2.0*	10	20	2.0:1	125	B3
AML0022L3601	0.02 - 2.5	33	0.75	2.0*	10	20	2.0:1	170	B4
AML0022L4801	0.02 - 2.5	44	1	2.0*	10	20	2.0:1	220	B5

Model Number	Freq. Range (GHz)	Gain (dB min)	Flat. (± dB max)	NF (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AML0022L2101	0.02 - 2.5	22	0.5	2.0*	13	23	2.0:1	140	B3
AML0022L3401	0.02 - 2.5	33	0.75	2.0*	13	23	2.0:1	190	B4
AML0022L4601	0.02 - 2.5	44	1	2.0*	13	23	2.0:1	240	B5
AML0022P2401	0.02 - 2.5	22	0.5	2.0*	20	30	2.0:1	300	B3
AML0022P3601	0.02 - 2.5	34	0.75	2.0*	20	30	2.0:1	350	B4
AML0022P4601	0.02 - 2.5	46	1	2.0*	20	30	2.0:1	400	B5
0.050 - 8.0 GHz									
AML0056P1501	0.05 - 6.5	15	0.5	4.0*	20	30	2.0:1	330	modK3
AML50M3P0901	0.05 - 3.2	9	0.75	6.5*	24	35	2.0:1	300	C2
AML0058P3801-TC*	0.05 - 8.0	38	1.8	3.5	24	32	2.0:1	650	modK6
*Temperature compensation included. Coefficient of gain variation over temperature -0.015dB/degC									
0.1 - 2.0 GHz									
AML012L1401	0.1 - 2.0	14	0.5	1.2*	13	23	2.0:1	80	modK2
AML012L1501	0.1 - 2.0	14	0.5	1.5*	13	23	2.0:1	80	modK2
AML012L1502	0.1 - 2.0	14-17	0.5	1.5*	13	23	2.0:1	80	modK2
AML012L2201	0.1 - 2.0	20-23	±1.0	2.0*	13	2	2.0:1	200	modK3
AML012L3001	0.1 - 2.0	28	1	1.5*	13	23	2.0:1	150	modK3
AML012L4501	0.1 - 2.0	42	1.5	1.5*	13	23	2.0:1	220	modK4
AML012L3803	0.1 - 2.0	38	±1.0	1.5*	15	25	2.0:1	220	modK4
AML012P1201	0.1 - 2.0	12	0.5	3.0*	20	33	2.0:1	180	C2
JCA0101-207	0.1 - 1.0	21	1.5	5	20	30	2.0:1	390	LCFB1
AML012P2701	0.1 - 2.0	27	1	1.5*	20	33	2.0:1	230	modK3
AML012L3801	0.1 - 2.0	38	1.5	1.5*	20	33	2.0:1	290	modK4
AML012P4201	0.1 - 2.0	42	1.5	1.2*	20	33	2.0:1	300	mod K4
AML012P2301	0.1 - 2.0	23	1	4.2	26	36	2.0:1	430	modK3
AML012P3801	0.1 - 2.0	38	1.5	2.4	26	36	2.0:1	490	modK4
AML012P0901	0.1 - 2.0	9	1	7	30	40	2.0:1	750	OL35
AML012P2202	0.1 - 2.0	22	1.5	4.6	30	40	2.0:1	800	OL37
AML012P3202	0.1 - 2.0	32	2	4	30	40	2.0:1	1050	OL39
0.1 - 6.0 GHz									
AML016L2802	0.1 - 6.0	28	1.25	1.3*	7	15	2.0:1	190	AFS4
AML016L2801	0.1 - 6.0	28	1.25	2.0*	10	18	2.0:1	190	AFS4
AML016L1001	0.1 - 6.0	10	0.5	2.7	12	22	2.0:1	90	modK2
AML016L2001	0.1 - 6.0	20	1	3	12	22	2.0:1	140	modK3
AML016L3001	0.1 - 6.0	30	1.5	2.0*	12	22	2.0:1	190	modK4

† Gain specified as min to max
* Power specified as Psat
**Above 500 MHz
Noise Figure up to 36.5GHz. 5.5dB max @ 40GHz

-Specifications are at +25°C
-Operating temperature range is -20 to +70°C
-Operational range of -54 to +85°C is available

-DC Voltage is +12 to +15 VDC unless stated otherwise
-Specifications are subject to change

Model Number	Freq. Range (GHz)	Gain (dB min)	Flat. (± dB max)	NF (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AML016L4001	0.1 - 6.0	40	2	3	12	22	2.0:1	230	modK5
AML016P2001	0.1 - 6.0	20	1	3.0*	20	30	2.0:1	240	modK3
AML016P3001	0.1 - 6.0	30	1.5	3.5	20	30	2.0:1	290	modK4
AML016P4001	0.1 - 6.0	40	2	3.5	20	30	2.0:1	350	modK5
AML016P4202	0.1 - 6.0	42	2.5	4.5*	20	30	2.0:1	375	modK5
AML016P4401	0.1 - 6.0	44	2.5	4.5*	20	30	2.0:1	375	modK5
AML016P1801	0.1 - 6.0	18	1	6	24	34	2.0:1	450	modK3
AML016P2801	0.1 - 6.0	28	1.5	3.5	24	34	2.0:1	500	modK4
AML016P3801	0.1 - 6.0	38	2	3.5	24	34	2.0:1	550	modK5
AML016P2802	0.1 - 6.0	28	2.5	4*	26	38	2.0:1	15V, 600	
0.1 - 8.0 GHz									
AML018L0901	0.1 - 8.0	9	0.5	2*	9	18	2.0:1	70	modK2
AML018L1001	0.1 - 8.0	10	0.5	3.5	12	22	2.0:1	80	modK2
AML018L2001	0.1 - 8.0	18	1	3.8	12	22	2.0:1	140	modK3
AML018L3001	0.1 - 8.0	30	1.5	3*	12	22	2.0:1	200	modK4
AML018L3001-TC	0.1 - 8.0	30	1.5	4	12	22	2.0:1	200	modK5
AML018L4001	0.1 - 8.0	40	2	4	12	22	2.0:1	250	modK5
AML098P2001	0.9 - 8.0	18	1.5	5	20	30	2.0:1	300	modK3
AML018P2001	0.1 - 8.0	20	1.2	3*	20	30	2.0:1	240	modK3
AML018P3001	0.1 - 8.0	30	1.5	3*	20	30	2.0:1	300	modK4
AML018P4001	0.1 - 8.0	40	2	3*	20	30	2.0:1	340	modK5
AML018P1801	0.1 - 8.0	18	1	6	24	34	2.0:1	450	modK3
AML018P2801	0.1 - 8.0	28	1.5	3*	24	34	2.0:1	500	modK4
AML018P3801	0.1 - 8.0	38	1.75	3*	24	34	2.0:1	550	modK5
AML018P3801-TC	0.1 - 8.0	38	1.75	3.5	24	32	2.0:1	550	modK6
0.1 - 15.0 GHz									
JCA007-203	0.01 - 7.0	31	2	5	10	20	2.0:1	330	K3
JCA0010-301	0.01 - 10.0	34	2.5	5	0	10	2.0:1	300	K3
JCA0014-202	0.01 - 14.0	31	2.5	5	5	15	2.0:1	320	K3
AML0112L1801	0.1 - 12.5	18	1	5*	10	20	2.0:1	100	B2
JCA0010-303	0.01 - 10.0	30	2.5	5	10	20	2.0:1	350	K3
AML50M10L3201-TC	0.05 - 10.0	30-36	2	4	12	22	1.8:1	280	B5
AML0212P4501	0.2 - 12.0	45-50	2	5	15	25	2.0:1	520	B5
JCA0014-205	0.01 - 14.0	30	2.5	5	15	25	2.0:1	350	K3
AML0113L1501	0.1 - 13.0	15	1.5	4.5	17	25	2.0:1	175	B2

Model Number	Freq. Range (GHz)	Gain (dB min)	Flat. (± dB max)	NF (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AML00110P1801	0.1 - 10.0	18	1.5	4*	20	30	2.0:1	280	modK3
AML0115P2401	0.1 - 15.0	24	2	6*	23	30	2.0:1	500	B3
AML0110P2701	0.1 - 10.0	27	2	6	24	34	2.0:1	400	modK4
0.01 - 18.0 GHz									
AML0118L3402	0.1 - 18.0	35	2	2.8*	5	15	2.2:1	220	B4
AML0118L1201	0.1 - 18.0	12 - 16	1	3.0*	8	18	2.0:1	100	B2
AML0118L3501	0.1 - 18.0	35	1	3.0*	8	18	2.0:1	110	B2
AML0118L2002	0.1 - 18.0	20	1.5	3.0*	10	20	2.0:1	160	B3
AML0118L2501	0.1 - 18.0	25	1.5	3.0*	10	20	2.0:1	150	B3
JCA0018-203	0.01 - 18.0	31	2.5	5	10	20	2.0:1	330	K3
AML0118L3502	0.1 -18.0	35	2.5	3.5*	10	20	2.2:1	220	B4
AML0118L3001	0.1 - 18.0	30	2.5	2.8*	10	20	2.2:1	220	B4
JCA0018-205	0.01 - 18.0	30	2.5	5	15	25	2.0:1	350	K3
AML0118L2001	0.1 - 18.0	20	2.25	7.0*	18	25	2.0:1	340	B4
AML0118P2001	0.1 - 18.0	20	1.75	6	20	27	2.0:1	300	B3
AML0118P3203	0.1 - 18.0	33	2	2.8*	20	27	2.2:1	450	BP6
AML0118P4001	0.1 - 18.0	40	2.25	2.8*	20	27	2.2:1	500	B6
AML0118P3204	0.1 - 18.0	33	2	3.0*	22	30	2.2:1	500	BP6
AML0118P4002	0.1 - 18.0	40	2.25	3.0*	22	30	2.2:1	550	BP6
AML0118P3201	0.1 - 18.0	32	3	3.5*	26*	32*	2.5:1	15, 750	BP6
0.1 - 20.0 GHz									
AML0120L1501	0.1 - 20.0	16	1	3.0*	8	18	2.0:1	110	B2
AML0120L1501-J	0.1 - 20.0	15	1.5	4.5*	10	18	2.2:1	110	B2
AML0120L2401	0.1 - 20.0	24	1.5	3.0*	8	18	2.0:1	150	B3
AML0120L2401-J	0.1 - 20.0	23	2	4.5*	10	20	2.2:1	160	B3
AML0120L3401	0.1 - 20.0	34	2	3.0*	8	18	2.0:1	195	B4
AML0120L3401-J	0.1 - 20.0	32	3	4.5*	10	20	2.2:1	205	B4
AML0120L4401	0.1 - 20.0	42	2.5	3.0*	8	18	2.0:1	230	B5
AML0120L4401-J	0.1 - 20.0	42	3.5	4.5*	10	18	2.2:1	230	B5
AML0120L3403	0.1 - 20.0	32	2	3.5*	15	25	2.0:1	300	B4
AML0120L3403-J	0.1 - 20.0	32	2.5	5.0*	15	25	2.0:1	300	B4
AML0120L3413	0.1 - 20.0	32	2.3	3.0*	15	22	2.0:1	300	B4
AML0120L1601	0.1 - 20.0	16	1.5	3.5*	17	25	2.0:1	220	B2
AML0120L2403	0.1 - 20.0	24	1.5	3.5*	17	27	2.0:1	250	B3
AML0120L2403-J	0.1 - 20.0	24	2.0	5.5*	17	27	2.0:1	250	B3
AML0120P3001	0.1 - 20.0	30	2.5	4.0*	20	28	2.0:1	450	B4

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Model Number	Freq. Range (GHz)	Gain (dB min)	Flat. (± dB max)	NF (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AML0120P3801	0.1 - 20.0	38	2.5	4.0*	20	28	2.0:1	500	B5
AML0120P1401	0.1 - 20.0	14	2	5.0*	19	28	2.0:1	220	B2
AML0120P1402	0.1 - 20.0	14	2	6.0*	22	28	2.0:1	375	B2
AML0120P3202	0.1 - 20.0	32	3	4.5*	24	32	2.5:1	650	002-0954
AML0120P3201	0.1 - 20.0	32	3	3.5*	26	33	2.0:1	750	002-0954
0.05 - 20.25 GHz									
AML50M20L2201	0.05 - 20.25	20-24	2	6.0*	15	26	2.0:1	195	B3
0.1 - 23.0 GHz									
AML0123L0701	0.1 - 23.0	7	0.5	4.0*	8	16	2.0:1	70	M1
AML0123L1401	0.1 - 23.0	14	1	4.0*	8	16	2.0:1	120	B2
AML0123L2101	0.1 - 23.0	21	1.5	4.0*	8	16	2.0:1	170	B3
AML0123L2901	0.1 - 23.0	29	2	4.0*	8	16	2.0:1	220	B4
AML0123L3701	0.1 - 23.0	37	2.5	4.0*	8	16	2.0:1	260	B5
AML0122L0801	0.1 - 22.0	8	2.25	6.5	10	18	2.0:1	110	M1
AML0123L1402	0.1 - 23.0	14	1	4.0*	13	20	2.0:1	140	B2
AML0123L2102	0.1 - 23.0	21	1.5	4.0*	13	20	2.0:1	190	B3
AML0123L2501	0.1 - 23.0	25	1.5	4.0*	13	20	2.0:1	180	B3
AML0123L2902	0.1 - 23.0	29	2	4.0*	13	20	2.0:1	230	B4
AML0123L3702	0.1 - 23.0	37	2.5	4.0*	13	20	2.0:1	270	B5
AML0123L3001	0.1 - 23.0	30	3	4.0*	17	24	2.0:1	300	KA3
AML0123P3001	0.1 - 23.0	30	3	4.0*	19	26	2.0:1	450	KA3
AML0123P3201	0.1 - 23.0	30	3	5.0*	2-18: 26; 18-23: 24;	30	2.0:1	650	KA3
0.1 - 26.5 GHz									
AML0126L2301	0.1 - 26.5	23	2.5	3.7*	8	16	2.2:1	180	B3
AML0126L0701	0.1 - 26.5	7.5	0.75	4*	9	17	2.2:1	70	M1
AML0126L1501	0.1 - 26.5	15	1.5	4*	9	17	2.2:1	120	B2
AML0126L2201	0.1 - 26.5	22	2.25	4*	9	17	2.2:1	170	B3
AML0126L3001	0.1 - 26.5	30	2.5	4*	9	17	2.2:1	220	B4
AML0126L3801	0.1 - 26.5	38	2.75	4*	9	17	2.2:1	260	B5
AML0126P1401	0.1 - 26.5	14	2	6.0*	19	26	2.0:1	220	KA2
AML0126P3001	0.1 - 26.5	30	3.5	5.0*	19	26	2.0:1	400	KA3
AML0126P3002	0.1 - 26.5	30	3	6.0*	2-18: 26; 18-24: 24; 24-26.5: 22	30	2.0:1	600	KA3

Model Number	Freq. Range (GHz)	Gain (dB min)	Flat. (± dB max)	NF (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
0.1 - 40.0 GHz									
AML0132P2801	0.1 - 32.0	28	3	6.0*	0.1-18GHz: 20dBm; 18-32GHz: 18dBm	26	2.2:1	450	KA3
AML0140P2801	0.1 - 40.0	26	3.5	2-30GHz: 6dB; 30-40GHz: 8dB	2-30GHz: 19dBm; 30-40GHz: 15dBm	2-30: 27; 30-40: 25		450	
0.5 - 2.0 GHz									
ALA0520-45-08	0.5 - 2.0	40	1	3.5	4	N/A	2.0:1	250	STC-3
AML052L3401	0.5 - 2.0	34	1.5	3	10	20	2.0:1	180	C4
AUL0502-10-12	0.5 - 2.0	10	1	1.5	12	23	2.0:1	75	STC-1
ALS0502-12-12	0.5 - 2.0	12	0.75	2.2	12	22	2.0:1	100	STC-2
JCA02-2002	0.5 - 2.0	17	0.8	4	16	24	2.4:1	180	K2
AML052L1401	0.5 - 2.0	14	0.4	1.3	14	24	2.0:1	90	modK2
AML052L2801	0.5 - 2.0	28	0.8	1.4	14	24	2.0:1	155	modK3
AML052L4201	0.5 - 2.0	42	1.25	1.4	14	24	2.0:1	215	modK4
ALS0502-25-15	0.5 - 2.0	25	1.5	1.5	15	25	2.0:1	110	STC-2
AUL0503-30-15	0.5 - 3.0	30	1	1.5	15	25	2.0:1	150	STC-2
AUL0502-30-15	0.5 - 2.0	30	1	1.5	15	27	2.0:1	150	STC-2
ALS0502-42-15	0.5 - 2.0	42	1.5	1.7	15	25	2.0:1	185	STC-3
AML052L2201	0.5 - 2.0	15.5-18.5	1	4.4	18	30	2.0:1	200	modK3
ALS0502-34-18	0.5 - 2.0	34	1	2	18	28	2.0:1	220	STC-2
AML052P1201	0.5 - 2.0	12	0.25	3	20	35	2.0:1	150	C2
AML051P1201	0.5 - 1.5	12	0.25	3	20	34	2.0:1	220	C2
AML052P2601	0.5 - 2.0	26	1	1.5	20	35	2.0:1	215	modK3
JCA02-302	0.5 - 2.0	28	1.5	3	20	30	2.0:1	250	FB2
AML052P4001	0.5 - 2.0	40	1.25	1.5	20	35	2.0:1	280	modK4
AML052P1202	0.5 - 2.0	11-13	0.75	3.5	20	30	2.0:1	150	C2
AML052P2001	0.5 - 2.0	23-27	1	2	20	30	2.0:1	200	modK3
ALS0502-25-20	0.5 - 2.0	25	1.5	1.5	20	28	2.0:1	125	STC-2
ALS0502-42-20	0.5 - 2.0	42	1.5	2.5	20	30	2.0:1	280	STC-3
AML052P2501	0.5 - 2.5	23.5-26.5	1	2	22	30	2.0:1	215	modK3
JCA02-332	0.5 - 2.0	26	2	5	23	33	2.0:1	400	FB2
ALS0502-30-25	0.5 - 2.0	30	2	3	25	35	2.0:1	430	STC-3
AML052P2201	0.5 - 2.0	22	1	3.6	26	36	2.0:1	420	modK3

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Model Number	Freq. Range (GHz)	Gain (dB min)	Flat. (± dB max)	NF (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AML052P3601	0.5 - 2.0	36	1.25	1.8	26	36	2.0:1	465	modK4
AML052P5001	0.5 - 2.0	50	1.5	1.8	26	36	2.0:1	525	modK5
ALS0502-32-27	0.5 - 2.0	32	1.5	3	27	35	2.0:1	800	SLC-1
AML052P0901	0.5 - 2.0	9	1	7	30	40	2.0:1	750	OL35
AML052P2202	0.5 - 2.0	22	1.25	4.6	30	40	2.0:1	950	OL37
AML052P3201	0.5 - 2.0	32	1.5	4	30	40	2.0:1	1050	OL39
APA0502-40-30	0.5 - 2.0	40	2	3	30	38	2.0:1	580	SLC-2
AML052P4002	0.5 - 2.0	40	1.5	4	30	42	2.0:1	1150	OL40
APA0502-30-33	0.5 - 2.0	30	2	6	33	43	2.0:1	1900	SPC
APA0502-45-33	0.5 - 2.0	45	2	6	33	43	2.0:1	1900	SPC
0.5 - 8.0 GHz									
JCA06-215	0.5 - 6.0	18	1	3.5	10	20	2.0:1	120	K2
JCA04-300	0.5 - 4.0	21	1	3	10	20	2.0:1	150	XK3
JCA08-415	0.5 - 8.0	36	2	3.5	10	20	2.0:1	200	K2
AML056P4002	0.5 - 6.5	40	1	4.5	15	25	1.8:1	300	mod-DK4
AML054L2702	0.5 - 4.0	27	1.5	3.5	17	27	2.0:1	240	modK4
AML054P2001	0.5 - 4.0	20	1	8	21	29	2.0:1	275	modK3
AML058P0901	0.5 - 8.0	9	1	5.4	22	32	2.0:1	200	modK2
AML056P1901	0.5 - 6.5	19	0.6	4.5	24	32	1.8:1	470	modK3
0.5 - 10.0 GHz									
AML0510L0901	0.5 - 10.0	9	1	2.5	5	15	2.2:1	45	M1
AML0510L1001	0.5 - 10.0	9	0.5	5	9	19	2.0:1	70	modK2
AML0510L1601	0.5 - 10.0	16	1	3	8	18	2.0:1	110	B2
AML0510L1801	0.5 - 10.0	18	1	5.4	9	19	2.0:1	120	modK3
AML0510L2401	0.5 - 10.0	24	1.5	3	9	18	2.0:1	150	B3
AML0510L2801	0.5 - 10.0	28	1	5.4	9	19	2.0:1	170	modK4
AML0510L3201	0.5 - 10.0	32	2	3	9	18	2.0:1	195	B4
AML0510L3801	0.5 - 10.0	38	1.25	5.4	9	19	2.0:1	220	modK5
AML0510L1002	0.5 - 10.0	9	0.5	5.2	13	23	2.0:1	90	modK2
AML0510L1802	0.5 - 10.0	18	1	5.4	13	23	2.0:1	140	modK3
AML0510L2402	0.5 - 10.0	24	1.25	3.2	13	21	2.0:1	180	B3
AML0510L2802	0.5 - 10.0	27	1	5.4	13	23	2.0:1	190	modK4
AML0510L3202	0.5 - 10.0	32	2	3.2	13	23	2.0:1	220	B4
AML0510L3802	0.5 - 10.0	36	1.25	5.4	13	23	2.0:1	240	modK5
AML0510L1803	0.5 - 10.0	18	1	5.5	17	27	2.0:1	200	modK3
AML0510L2803	0.5 - 10.0	27	1	4.5	17	27	2.0:1	240	modK4

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AML0510L3203	0.5 - 10.0	32	1.5	3.5	17	27	2.0:1	245	B4
AML0510L3803	0.5 - 10.0	36	1.25	4.5	17	27	2.0:1	290	modK5
AML0510L4203	0.5 - 10.0	42	1.25	4.5	17	25	2.0:1	290	modK6
AML0510P1801	0.5 - 10.0	18	2	6	24	34	2.2:1	450	modK3
AML0510P2801	0.5 - 10.0	27	1	5.8	24	34	2.0:1	500	modK4
AML0510P3801	0.5 - 10.0	36	1.25	5.8	24	34	2.0:1	550	modK5
AML0510P3601	0.5 - 10.0	35	2	3.5	27*	36	2.0:1	750	B5
0.5 - 12.0 GHz									
AWB0512-26-08	0.5 - 12.0	26	2	4.5	8	18	2.0:1	240	STC
AWB0512-34-08	0.5 - 12.0	34	2	4.5	8	18	2.0:1	300	STC
AWB0512-17-15	0.5 - 12.0	17	2	5.5	15	25	2.0:1	170	STC
AWB0512-34-15	0.5 - 12.0	33	2	5	15	25	2.0:1	290	STC
AWB0512-25-20	0.5 - 12.0	25	2	5.5	20	30	2.0:1	320	STC
0.5 - 18.0 GHz									
JCA018-401	0.5 - 18.0	35	3	4	3	13	2.0:1	370	K4
AML0518L0901	0.5 - 18.0	9	1	2.4	5	15	2.2:1	45	M1
AML0418L0902	0.4 - 18.0	9	1	2.5	8	15	2.2:1	55	M1
AML0518L1601-J	0.5 - 18.0	15	1.5	4.5	8	18	2.2:1	110	B2
AML0518L1601-LN	0.5 - 18.0	16	1	2.7	8	18	2.2:1	100	B2
AML0518L1601	0.5 - 18.0	16	1	3	8	18	2.0:1	110	B2
AWB0518-20-08	0.5 - 18.0	20	2	3.5	8	18	2.0:1	150	STC
AML0518L2401-J	0.5 - 18.0	23	2	5	8	18	2.2:1	150	B3
AML0518L2401	0.5 - 18.0	24	1.5	3	8	18	2.0:1	150	B3
AML0518L3401	0.5 - 18.0	32	2	3	8	18	2.0:1	195	B4
AML0518L3401-J	0.5 - 18.0	34	2.5	5	8	18	2.2:1	195	B4
AWB0518-35-08	0.5 - 18.0	35	2	5	8	18	2.0:1	275	STC
AML0518L4501-J	0.5 - 18.0	42	3.25	5	8	18	2.2:1	245	B5
AML0518L4501	0.5 - 18.0	45	2.5	4	8	18	2.0:1	245	B5
AML0518L3401L	0.5 - 18.0	30	1.5	4	10	20	2.0:1	195	B5
AML0518L3601	0.5 - 18.0	36	2	2.8	10	18	2.0:1	250	B4
AML0518L1602-J	0.5 - 18.0	15	1.5	5.5	13	23	2.2:1	130	B2
AML0518L1602	0.5 - 18.0	16	1	3.5	13	23	2.0:1	130	B2
AML0518L2402-J	0.5 - 18.0	23	2	5	13	23	2.2:1	180	B3
AML0518L2402	0.5 - 18.0	24	1.5	3.2	13	23	2.0:1	180	B3
AML0518L3202	0.5 - 18.0	32	2	3.2	13	23	2.0:1	220	B4
AML0518L3202-J	0.5 - 18.0	32	2.5	5	13	23	2.2:1	220	B4

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Model Number	Freq. Range (GHz)	Gain (dB min)	Flat. (± dB max)	NF (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AML0518L4202	0.5 - 18.0	42	2.5	3.2	13	23	2.0:1	260	B5
AML0518L4202-J	0.5 - 18.0	42	3.25	5	13	23	2.2:1	260	B5
AML0518L1603	0.5 - 18.0	16	1	4	17	27	2.0:1	165	B2
AML0518L1603-J	0.5 - 18.0	16	1.5	5.5	17	27	2.2:1	165	B2
AML0518L2403	0.5 - 18.0	24	1.5	3.5	17	27	2.0:1	205	B3
AML0518L2403-J	0.5 - 18.0	24	2	5.5	17	27	2.2:1	205	B3
AML0518L3203	0.5 - 18.0	32	2	3.5	17	27	2.0:1	245	B4
AML0518L3203-J	0.5 - 18.0	32	2.5	5	17	27	2.2:1	245	B4
AML0518L4203	0.5 - 18.0	42	2.5	3.5	17	27	2.0:1	295	B5
AML0518L4203-J	0.5 - 18.0	42	3	5	17	27	2.2:1	295	B5
AML0518P0801	0.5 - 18.0	8	1	6.5	18	28	2.0:1	150	M1
AML0518P1601	0.5 - 18.0	16	1	5	20	30	2.0:1	180	B2
AML0518P2401	0.5 - 18.0	24	2	4	20	30	2.0:1	230	B3
AML0518P2401-J	0.5 - 18.0	24	2	6	20	30	2.2:1	230	B3
AWB0518-30-20	0.5 - 18.0	30	2	5	20	27	2.2:1	350	STC-3
AML0518P3201	0.5 - 18.0	32	2	3.5	20	30	2.0:1	270	B4
AML0518P3201-J	0.5 - 18.0	32	2.5	5	20	30	2.0:1	270	B4
AML0518P4201	0.5 - 18.0	42	2.5	3.5	20	30	2.0:1	400	B5
AML0518P4201-J	0.5 - 18.0	42	3	5	20	30	2.2:1	400	B5
AML0518P4206	0.5 - 18.0	42	2.5	3	20	28	2.0:1	400	B5
AML0518P2701	0.5 - 18.0	25-29	1.5	4	22	32	2.0:1	420	B3
AML0518P1602	0.5 - 18.0	16	1.5	6	22	32	2.0:1	350	B2
AML0518P2402	0.5 - 18.0	24	1.5	4	22	32	2.0:1	420	B3
AML0518P2402-J	0.5 - 18.0	24	2	6	22	32	2.0:1	320	B3
AML0518P3202	0.5 - 18.0	32	2	3.5	22	30	2.0:1	360	B4
AML0518P3202-J	0.5 - 18.0	32	2.5	5.5	22	30	2.0:1	360	B4
AWB0518-35-22	0.5 - 18.0	35	2	5	22	27	2.2:1	775	STC-4
AML0518P4202	0.5 - 18.0	42	2.5	3.5	22	30	2.0:1	400	B5
AML0518P4202-J	0.5 - 18.0	42	3	5	22	30	2.0:1	400	B5
AML0518P1605	0.5 - 18.0	14-17	1.5	6	22	30	2.0:1	230	B2
AML0518P2407	0.5 - 18.0	24-29	2	4	23	30	2.0:1	350	B3
AML0518P2501	0.5 - 18.0	25	2	4.5	24	32	2.0:1	550	B3
AML0518P3205	0.5 - 18.0	32	2.5	5	24	34	2.0:1	750	B5
AML0518P2703	0.5 - 18.0	27	2.5	5	25	32	2.0:1	550	B3
AML0518P3204	0.5 - 18.0	32	2.5	3.5	25	32	2.0:1	750	B5
AML0518P1606	0.5 - 18.0	16	2	6	0.5-2GHz: 26dBm; 2-12GHz: 27dBm; 12-18GHz: 25dBm	35	2.0:1	450**	B2

Model Number	Freq. Range (GHz)	Gain (dB min)	Flat. (± dB max)	NF (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AML0518P1701	0.5 - 18.0	16	2	7.5	0.5-1GHz: 26dBm; 1-12GHz: 27dBm; 14-18GHz: 25dBm	34	2.5:1	600**	B2
0.5 - 20.0 GHz									
AML0520L0801	0.5 - 20.0	8	1	4.5	8	18	2.0:1	100	M1
AML0520L1101	0.5 - 20.0	11	1.25	5	12	20	2.2:1	100	B2
AML0520L1701	0.5 - 20.0	17 - 21	1.5	6	17	25	2.2:1	170	B2
AML0520P3201	0.5 - 20.0	32	3	3.5	24	32	2.0:1	750	B5
1.0 - 8.0 GHz									
AML14L2001	1.0 - 4.0	20	1	3	10	20	2.0:1	100	modK3
JCA13-300	1.5 - 3.0	24	1.5	2.5	10	20	2.0:1	120	LCFB1
JCA14-2001	1.0 - 4.0	30	2	0.9	10	20	2.5:1	200	FB3
JCA14-401	1.0 -4.0	40	2	0.9	10	20	2.0:1	300	SMH1
AML16L2801	1.0 - 6.0	25	1	1.5	10	20	2.2:1	150	SP3
AML16L2201	1.0 - 6.0	22	1.2	2.2	12	22	2.0:1	150	modK3
AML18L3001	1.0 - 8.0	30	2	1.8	13	22	1.8:1	12V, 110	
AML110L3001	1.0 - 10.0	30	3	2.2	12	22	1.8:1	12V, 110	
AML18L4001	1.0 - 8.0	40	2	2	13	23	2.0:1	270	modK5
JCA14-3001	1.0 - 4.0	40	2	0.9	15	25	2.5:1	250	FB3
JCA14-4001	1.0 - 4.0	50	2	0.9	15	25	2.5:1	300	FB3
AML16P1401*	1.5 - 6.0	14	1	5	20	31	2	250	K2
AML13P2601	1.0 - 3.5	26	1	3	25	35	2.0:1	480	modK4
AML14P3501	1.8 - 4.2	35-38	1.25	3	30	38	2.0:1	675	C4
1.0 - 18.0 GHz									
JCA118-200	1.0 - 18.0	23	2.5	4	3	13	2.0:1	165	K2
AML118L3201	1.0 - 18.0	32	2	2.8	8	18	2.0:1	200	B4
AWB0118-35-08	1.0 - 18.0	35	2	5	8	18	2.5:1	235	STC-3
AML118L2501	1.0 - 18.0	25-30	2	2.7	10	20	2.0:1	150	B3
AML118L3401	1.0 - 18.0	34	2	3	10	20	2.0:1	200	B4
AML118L3402	1.0 - 18.0	34	0.5*	3	10	20	2.0:1	200	B4
AML118L3801	1.0 - 18.0	38	2	5	10	20	2.0:1	260	B4
AML118L2202	1.0 - 18.0	20-27	1.5	4.5	10	20	2.0:1	160	B3
AWB0118-30-10	1.0 - 18.0	30	2	4	10	20	2.0:1	200	STC

† Gain specified as min to max
* Power specified as Psat
**Above 500 MHz
Noise Figure up to 36.5GHz. 5.5dB max @ 40GHz
◊ Across any 40 MHz

-Specifications are at +25ºC
-Operating temperature range is -20 to +70ºC
-Operational range of -54 to +85ºC is available

-DC Voltage is +12 to +15 VDC unless stated otherwise
-Specifications are subject to change

Model Number	Freq. Range (GHz)	Gain (dB min)	Flat. (± dB max)	NF (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AWB1019-35-10	1.0 - 19.0	35	2.5	5.5	10	20	2.0:1	320	STC
JCA118-503	1.0 - 18.0	41	2.5	5	10	20	2.0:1	450	K2/K3
JCA118-404	1.0 - 18.0	32	2.5	5.5	12	22	2.0:1	495	K2/K2
ALN0118-22-20	1.0 - 18.0	22	1.5	4	20	27	2.0:1	300	STC-3
AML118P2601	1.0 - 18.0	25	1.5	6	20	28	2.0:1	200	B3
AML118P1601	1.0 - 18.0	16	1	5.5	21	28	2.0:1	260	B2
AML118P3201	1.0 - 18.0	32	2	2.8	22	30	2.2:1	450	B4
AML118P2201	1.0 - 18.0	22	1.5	4	22	30	2.0:1	400	B3
AML118P2801	1.0 - 18.0	27-31	2	4	25	34	2.2:1	550	B3
AML118P2703	1.0 - 18.0	27	2	4	27*	34	2.0:1	525**	B3
AML118P3001	1.0 - 18.0	30	2.5	5	27	34	2.2:1	1200**	B5
APA0111-30-30	1.0 - 11.0	30	1.5	5.5	30	38	2.0:1	2400	SLC-2
1.0 - 20.0 GHz									
AML120L0601	1.0 - 20.0	6	1	7	17	27	2.0:1	200	B2
AML120L2402	1.0 - 20.0	25	2	6	10	18	2.0:1	160	B3
AML120L3201	1.0 - 20.0	32	2	3	10	18	2.2:1	210	B4
AML120L3401	1.0 - 20.0	35	2	6	10	18	2.0:1	185	B4
AML119L2202	1.0 - 19.0	20	1.5	4.5	16	25	2.0:1	220	B3
AML120P3101	1.0 - 20.0	30	2.5	4	20	27	2.2:1	500	B4
AML120P2701	1.0 - 20.0	26	2.5	4	24	32	2.2:1	550	B3
AML120P2702	1.5 - 20.0	27	3	5	26	24	2.2:1	1150	B5
AML120P3201	1.0 - 20.0	32	3.5	5	27	32	2.0:1	15V, 1500	BP6
1.0 - 22.0 GHz									
AML122L3501	1.0 - 22.0	35	2	5	13	20	2.0:1	260	B4
AML122L3502	1.0 - 22.0	35	0.5*	5	13	20	2.0:1	260	B4
AML122P3201	1.0 - 22.0	32	2.5	5	26	32	2.0:1	1500**	BP6
2.0 - 8.0 GHz									
ALS0208-14-10	2.0 - 8.0	14	1.5	2.2	8	18	2.0:1	70	STC-1
AML28L1001	2.0 - 8.0	10	0.5	3	10	20	2.0:1	60	modK2
JCA28-201	2.0 - 8.0	18	1	3.5	10	20	2.0:1	120	XK2
AML28L2001	2.0 - 8.0	20	1	3	10	20	2.0:1	110	modK3
JCA28-2001	2.0 - 8.0	22	1	2.5	10	18	2.2:1	160	XK2
AML28L3001	2.0 - 8.0	30	1.5	3	10	20	2.0:1	160	modK4
ALS0208-30-10	2.0 - 8.0	30	2	2	10	20	2.0:1	160	STC-2
ALN0208-30-10	2.0 - 8.0	30	1.5	1.6	10	20	2.0:1	135	STC-2

Model Number	Freq. Range (GHz)	Gain (dB min)	Flat. (± dB max)	NF (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AML28L4001	2.0 - 8.0	40	2	3	10	20	2.0:1	210	modK5
AML28L1002	2.0 - 8.0	10	0.5	3.5	13	23	2.0:1	90	modK2
AML28L2002	2.0 - 8.0	20	1	3.5	13	23	2.0:1	140	modK3
AML28L3002	2.0 - 8.0	30	1.5	3.5	13	23	2.0:1	190	modK4
AML28L4002	2.0 - 8.0	40	2	3.5	13	23	2.0:1	240	modK5
AML28L1501	2.0 - 8.0	15	1	1.7	15	25	2.0:1	60	M1
ALT0208-19-15	2.0 - 8.0	19	1.5	4	15	25	2.0:1	260	STC-3
ALS0208-24-15	2.0 - 8.0	24	1.5	2.2	15	25	2.0:1	140	STC-2
AML28L2801L	2.0 - 8.0	24.5-30.5	2	5	15	25	1.8:1	220	modK5
AML28L3005	2.0 - 8.0	30	2	1.8	15	25	2.0:1	120	B2
ALS0208-30-15	2.0 - 8.0	30	2	1.8	15	25	2.0:1	150	STC-2
ALS0208-42-15	2.0 - 8.0	42	1.5	2.2	15	25	2.0:1	250	STC-3
JCA28-404	2.0 - 8.0	31	2	3.5	17	27	2.0:1	360	XK4
JCA28-205	2.0 - 8.0	16	1.5	4	19	29	2.0:1	275	XK2
AML28P2001	2.0 - 8.0	20	1	3.5	20	30	2.0:1	200	modK3
ALS0208-20-20	2.0 - 8.0	20	1.5	3	20	30	2.0:1	200	STC-2
ALS0208-24-20	2.0 - 8.0	24	1.5	2.2	20	25	2.0:1	170	STC-2
AML28P3001	2.0 - 8.0	30	1.5	3.5	20	30	2.0:1	250	modK4
ALS0208-32-20	2.0 - 8.0	32	1.5	2.5	20	30	2.0:1	250	STC-2
AML28P4001	2.0 - 8.0	40	2	3.5	20	30	2.0:1	300	modK5
AML28P4002	2.0 - 8.0	40	1.5	2.8	20	30	2.0:1	250	modK5
ALS0208-42-20	2.0 - 8.0	42	1.5	2.2	20	30	2.0:1	350	STC-3
ALS0208-50-20	2.0 - 8.0	50	1.5	2.5	20	30	2.0:1	300	STC-4
AML28P1801	2.0 - 8.0	18	1	5	24	34	2.0:1	450	modK3
AML28P2801	2.0 - 8.0	28	1.5	3.8	24	34	2.0:1	500	modK4
AML28P3801	2.0 - 8.0	38	2	3.8	24	34	2.0:1	550	modK5
ALS0208-25-25	2.0 - 8.0	25	1.5	3	25	33	2.0:1	350	STC-3
AML28P1201	2.0 - 8.0	12	1	6	27	35	2.0:1	650	L3
AML28P2201	2.0 - 8.0	22	1.5	5	27	35	2.0:1	500	L3
ALS0208-32-27	2.0 - 8.0	32	1.5	3	27	37	2.0:1	700	SLC-2
AML28P3203	2.0 - 8.0	32	2	4.8	27	35	2.0:1	560	B3
AML28P1001	2.0 - 8.0	10	1	7	30	38	2.2:1	1050	L4
AML28P1802	2.0 - 8.0	18	1.5	6	30*	38	2.0:1	1350	L4
APA0208-20-30	2.0 - 8.0	20	2	6	30	40	2.0:1	800	SLC-2
AML28P2202	2.0 - 8.0	22	2	6	30	38	2.0:1	1350	L4
APA0208-30-30	2.0 - 8.0	30	2	5.5	30	40	2.0:1	1300	SLC

† Gain specified as min to max
* Power specified as Psat
**Above 500 MHz
Noise Figure up to 36.5GHz. 5.5dB max @ 40GHz

-Specifications are at +25°C
-Operating temperature range is -20 to +70°C
-Operational range of -54 to +85°C is available

-DC Voltage is +12 to +15 VDC unless stated otherwise
-Specifications are subject to change

Model Number	Freq. Range (GHz)	Gain (dB min)	Flat. (± dB max)	NF (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AML28P3201	2.0 - 8.0	32 - 37	2	5.5	30	38	1.8:1	1300	SC6
APA0208-35-30	2.0 - 8.0	35	2	5.5	30	40	2.0:1	1300	SLC
AML28P3001-2W	2.0 - 8.0	30	2	5.5	33*	38	2.0:1	2000	SCP7
APA0208-30-33	2.0 - 8.0	30	2	6	33	43	2.0:1	1900	SPC
APA0208-35-33	2.0 - 8.0	35	2	6	33	43	2.0:1	1900	SPC
AML28P3802	2.0 - 8.0	38	2.5	6.5	33	40	2.0:1	2400	002-0814
2.0 - 15.0 GHz									
AML215L2501	2.0 - 15.0	25	1.5	2.7	10	20	2.0:1	150	B3
JCA212-501	2.0 - 12.0	31	2	5	10	20	2.0:1	165	K4
AML313L4001	3.0 - 13.0	40-45	1.5	3	10	20	2.0:1	230	B5
AML310L1001	3.0 - 10.0	10	1.5	6	12	22	2.0:1	80	M1
AML210L2401	2.0 - 10.5	22-26	1.5	4.5	17	27	2.0:1	200	B3
AML214L1801	2.0 - 14.0	18-22	1.5	4	18	28	2.0:1	200	B2
AML213P2001	2.0 - 13.0	20	1.5	4	23	32	2.0:1	450	B2
AML212P2201	2.0 - 12.0	20.5-23.5	1	5.2	24	32	2.0:1	375	B3
2.0 - 18.0 GHz									
AML218L0901	2.0 - 18.0	9	1	2.2	5	15	2.2:1	45	M1
AML218L0902	2.0 - 18.0	9	1	2.5	5	15	2.2:1	50	M1
AML218L3801	2.0 - 18.0	36	2	2.6	5	15	2.0:1	220	B4
AML218L1501-J	2.0 - 18.0	15	1.5	4.5	8	18	2.2:1	110	B2
AML218L1501	2.0 - 18.0	16	1	2.8	8	18	2.0:1	110	B2
AWB2018-20-08	2.0 - 18.0	20	2	3.5	8	18	2.0:1	140	STC
AML218L2501	2.0 - 18.0	24	1.5	2.8	8	18	2.0:1	150	B3
AWB2018-30-08	2.0 - 18.0	30	2	3.5	8	18	2.0:1	200	STC
AML218L3401	2.0 - 18.0	32	2	2.8	8	18	2.0:1	195	B4
AML218L3404	2.0 - 18.0	32	2	2.5	8	18	2.0:1	195	B4
AWB2018-40-08	2.0 - 18.0	40	2	3.5	8	18	2.0:1	260	STC
AML218L4401	2.0 - 18.0	42	2.2	2.8	8	18	2.0:1	230	B5
ALS0218-14-09	2.0 - 18.0	14	1.5	4.5	9	19	2.2:1	100	STC-2
JCA218-201	2.0 - 18.0	17	2.5	4.5	10	20	2.0:1	200	K2
AWB2018-20-10	2.0 - 18.0	20	2	3.5	10	20	2.0:1	225	STC
AML218L2204	2.0 - 18.0	20	1.5	3	10	20	2.0:1	160	B3
AML218L2506	2.0 - 18.0	20-27	1.5	4	10	20	2.2:1	170	B3

Model Number	Freq. Range (GHz)	Gain (dB min)	Flat. (± dB max)	NF (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
ALS0218-23-10	2.0 - 18.0	23	1.5	3.8	10	20	2.2:1	190	STC-2
AML218L2501-J	2.0 - 18.0	23	2	4.5	10	20	2.2:1	150	B3
JCA218-301	2.0 - 18.0	25	2.5	4.5	10	20	2.0:1	140	K2
JCA218-401	2.0 - 18.0	30	2.5	4.5	10	20	2.0:1	225	K3
JCA218-403	2.0 - 18.0	31	2.5	3.8	10	20	2.0:1	225	STC-2
AML218L3201	2.0 - 18.0	31-38	1.5	5.5	10	18	2.0:1	220	modB4
AML218L3401-J	2.0 - 18.0	32	2.5	4.5	10	20	2.2:1	195	B4
JCA218-4003	2.0 - 18.0	32	1.5	3.3	10	20		150	K3
AML218L3202	2.0 - 18.0	32	2	2.8	10	18	2.0:1	195	B4
JCA218-503	2.0 - 18.0	36	2.5	4	10	20	2.0:1	245	K4
AML218L4401-J	2.0 - 18.0	42	3.25	4.5	10	20	2.2:1	230	B5
AML218L5401	2.0 - 18.0	50	2.5	2.8	10	18	2.2:1	360	B6
JCA218-504	2.0 - 18.0	40	3	4.2	12	22	2.0:1	350	K2/K2
AML218P1401	2.0 - 18.0	14	1.5	4.5	14	24	2.0:1	100	M1
AML218L1502	2.0 - 18.0	15	1	3	14	24	2.0:1	160	B2
AML218L1502-J	2.0 - 18.0	15	1.5	5	14	24	2.2:1	160	B2
AML218L2502	2.0 - 18.0	23	1.5	3	14	24	2.0:1	195	B3
AML218L2502-J	2.0 - 18.0	23	2	5	14	24	2.2:1	195	B3
AML218L3402-J	2.0 - 18.0	32	2.5	5	14	24	2.2:1	240	B4
AML218L3402	2.0 - 18.0	34	2	3	14	24	2.0:1	240	B4
ALA0218-35-19	2.0 - 18.0	35	1	6.5	14	N/A	2.0:1	375	STC-4
AWB2018-17-15	2.0 - 18.0	17	2	4	15	25	2.0:1	165	STC
AML218L1702	2.0 - 18.0	18	1.5	3.5	15	25	2.5:1	200	B4
AWB2018-26-15	2.0 - 18.0	26	2	4	15	25	2.0:1	225	STC
AML218L3502	2.0 - 18.0	32	2	3.8	15	23	1.8:1	150	B4
AWB2018-35-15	2.0 - 18.0	35	2	4	15	25	2.0:1	285	STC
AML218P0701	2.0 - 18.0	7	1.5	7	18	25	2.0:1	110	M1
AML218L2505	2.0 - 18.0	25	1	3	18	25	2.0:1	230	B3
AWB2018-35-18	2.0 - 18.0	35	2	5	18	26	2.0:1	355	STC-4
AML218L2601	2.0 - 18.0	26	1.5	4	19	28	2.0:1	250	B3
AML218P2003	2.0 - 18.0	18-22	1.5	5.6	19	27	2.0:1	300	B4
AWB2018-15-20	2.0 - 18.0	15	2	5	20	30	2.0:1	280	STC
AML218P1601	2.0 - 18.0	16	1	6	20	28	2.0:1	170	B2
AML218P1602	2.0 - 18.0	16	1	4.5	20	28	2.0:1	170	B2
AML218P1604	2.0 - 18.0	18-20	1	5	20	28	2.0:1	200	B2
AML218P1801	2.0 - 18.0	16	1	6	20	28	2.0:1	170	B2
AML218P2006	2.0 - 18.0	20	2	5	20	30	2.2:1	400	B2
AWB2018-24-20	2.0 - 18.0	24	2	5	20	30	2.0:1	350	STC

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**Above 500 MHz
Noise Figure up to 36.5GHz. 5.5dB max @ 40GHz

-Specifications are at +25°C
-Operating temperature range is -20 to +70°C
-Operational range of -54 to +85°C is available

-DC Voltage is +12 to +15 VDC unless stated otherwise
-Specifications are subject to change

Model Number	Freq. Range (GHz)	Gain (dB min)	Flat. (± dB max)	NF (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AML218P2801	2.0 - 18.0	25	1.5	3	20	28	2.0:1	230	B3
AML218P2503	2.0 - 18.0	25	2	5.5	20	28	2.0:1	230	B3
AML218P2601	2.0 - 18.0	25	1.5	4.5	20	28	2.0:1	260	B3
AML218P3401	2.0 - 18.0	34	2	3	20	28	2.0:1	320	B4
AML218P3402	2.0 - 18.0	34	2.5	5	20	28	2.0:1	320	B4
AML218P3501	2.0 - 18.0	35	2.5	5.5	20	28	2.2:1	300	B4
AML218P2001	2.0 - 18.0	21-24	1.5	3.5	20	30	2.0:1	300	B3
AML218P3002	2.0 - 18.0	29-32	1.5	5	20	28	2.3:1	330	B4
AWB2018-32-20	2.0 - 18.0	32	2	4.5	20	30	2.0:1	400	STC
AML218P3202	2.0 - 18.0	31-34	1.5	3.5	20	28	2.0:1	375	B4
AML218P1502	2.0 - 18.0	14-18	1.25	6	21	30	2.0:1	300	B2
JCA218-209	2.0 - 18.0	16	2.5	5	21	31	2.0:1	400	KM2
JCA218-309	2.0 - 18.0	21	2.5	5	21	31	2.0:1	400	KM2
JCA218-409	2.0 - 18.0	29	2.5	5	21	31	2.0:1	500	KM4
AWB2018-23-22	2.0 - 18.0	23	1.5	4.5	22	32	2.2:1	310	STC
AML218P2504	2.0 - 18.0	25	1.5	3.5	22	30	2.0:1	350	B3
AML218P2506	2.0 - 18.6	26	1.5	4	22	29	1.8:1	310	B3
AML218P3201	2.0 - 18.0	32	2	5	22	32	2.0:1	500	B4
AML218P3403	2.0 - 18.0	34	2	3	22	30	2.0:1	380	B4
AML218P3403-J	2.0 - 18.0	34	3	5	22	30	2.0:1	380	B4
AML218P2505	2.0 - 18.0	23.5-26.5	1.5	4	22	30	1.8:1	350	B3
AML218P2301	2.0 - 18.0	23	2	6.5	24	30	2.0:1	400	B3
AML218P2504-TC	2.0 - 18.0	26-29	1.25	3.1	24	31.5	2.0:1	580**	B5
AML218P3005	2.0 - 18.0	30-34	1.5	4.5	24	32	2.2:1	15V, 525	B4
AML218P2404	2.0 - 18.0	25	1.5	6	25	34	2.0:1	750**	B5
JCA218-3001	2.0 - 18.0	29	2	4	25	30	2.0:1	1.0 A	KM4
AWB2018-30-25	2.0 - 18.0	30	1.75	5	25	33	2.0:1	1000	SLC-2
AML218P3203	2.0 - 18.0	32	2.5	4	25	30	2.0:1	550**	B4
AML218P3206	2.0 - 18.0	32-36	1.5	4	25	32	2.0:1	550	B4
AML218P4203	2.0 - 18.0	40-45	2.5	4	25	33	2.0:1	700	B5
APA0218-30-26	2.0 - 18.0	30	2	5.5	26	33	2.2:1	2000	SLC-3
APA0218-30-27	2.0 - 18.0	30	2.5	6.5	27	37	2.2:1	1900	SPC
APA0218-34-27	2.0 - 18.0	34	2.5	4.5	27	37	2.2:1	1800	SPC
AML218P3204	2.0 - 18.0	30	2	5.5	28	34	2.0:1	1200**	B5
AML218P3205	2.0 - 18.0	30	2.5	6	30	34	2.0:1	2000**	

Model Number	Freq. Range (GHz)	Gain (dB min)	Flat. (± dB max)	NF (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
2.0 - 20.0 GHz									
AML220L3401	2.0 - 20.0	30	1.5	4	10	20	2.0:1	200	B4
AML220L2601	2.0 - 20.0	25	1	4.5	12	24	2.0:1	110	
JCA220-208	2.0 - 20.0	21	3	5	17	27	2.0:1	300	STC-2
AML220L2401	2.0 - 20.0	24	1.5	3	17	25	2.0:1	200	B3
AML220P2501	2.0 - 20.0	25	2.2	3	20	28	2.0:1	280	B3
JCA220-309	2.0 - 20.0	27	3	5	20	30	2.0:1	350	STC-3
JCA220-409	2.0 - 20.0	34	3	5	20	30	2.0:1	450	K4
AML220P3001	2.0 - 20.0	30	2.5	5	27	32	2.2:1	1200**	B5
2.0 to 40.0 GHz									
AML240L1801	2.0 - 40.0	18	1.5	5.8	10	18	2.0:1	150	KA3
AML240L2801	2.0 - 40.0	28	2	5.8	10	18	2.0:1	250	KA3
AML240L2802	2.0 - 40.0	28	2	5.8	10	18	2.0:1	250	002-0802
AML230P0801	2.0 - 30.0	7	2	8	17	25	2.0:1	160	KA3
AML240L2201	2.0 - 40.0	22	3	6	17*	25	2.0:1	350	KA3
AML226P0801	2.0 - 26.5	7	2	8	19	27	2.0:1	160	KA3
AML230P2401	2.0 - 30.0	24	2.5	6	19	28	2.0:1	350	KA3
4.0 - 12.0 GHz									
AML412L1001	4.0 - 12.0	10	0.75	2	10	20	1.8:1	50	K2
AML412L2001	4.0 - 12.0	20	1	2.5	10	20	1.8:1	100	K3
AML412L2101	4.0 - 12.0	21	1	2	10	20	1.6:1	160	K3
AML412L3001	4.0 - 12.0	30	1.5	1.7	10	20	1.5:1	150	K4
AML412L3002	4.0 - 12.0	30	1.5	2.5	10	20	1.8:1	150	K4
JCA412-303	4.0 - 12.0	20	1.5	5	14	24	2.0:1	180	K3
AML412L1002	4.0 - 12.0	10	0.75	3	15	25	1.8:1	60	K2
JCA412-2026	4.0 - 12.0	17	1.5	5	15	25	2.0:1	200	K2
AML412L2002	4.0 - 12.0	20	1	2.5	15	25	1.8:1	120	K3
AML412L3003	4.0 - 12.0	30	1.5	2.5	15	25	1.8:1	180	K4
AML412P1001	4.0 - 12.0	10	0.75	4	20	30	1.8:1	80	K2
AML412P2001	4.0 - 12.0	20	1	3	20	30	1.8:1	220	K3
AML412P2002	4.0 - 12.0	20	1	4	20	30	1.8:1	230	K3
AML412P3001	4.0 - 12.0	30	1.5	2.5	20	30	1.8:1	200	K4
JCA312-404	3.4 - 12.75	26	1.5	5	23	33	2.0:1	500	K2
AML412P1601	4.0 - 12.0	16	1.25	6	24	32	1.8:1	260	K3

† Gain specified as min to max
* Power specified as Psat
**Above 500 MHz
Noise Figure up to 36.5GHz. 5.5dB max @ 40GHz

-Specifications are at +25°C
-Operating temperature range is -20 to +70°C
-Operational range of -54 to +85°C is available

-DC Voltage is +12 to +15 VDC unless stated otherwise
-Specifications are subject to change

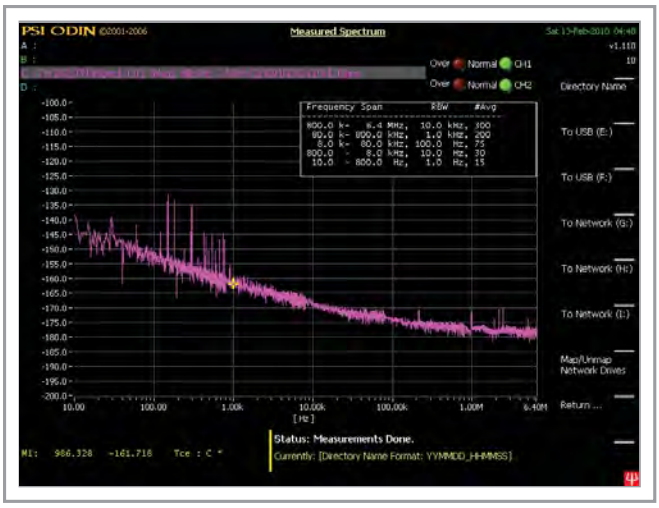
Model Number	Freq. Range (GHz)	Gain (dB min)	Flat. (± dB max)	NF (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
AML412P2003	4.0 - 12.0	20	1	7	24	32	1.8:1	450	K3
AML412P2601	4.0 - 12.0	26	1.5	4	24	32	1.8:1	320	K4
AML412P2801	4.0 - 12.0	28	2	4	27	35	1.8:1	600**	K5
AML412P2802	4.0 - 12.0	27	2	4	30	38	1.8:1	850**	K5
6.0 - 20.0 GHz									
AML620L1803	6.0 - 20.0	18	2	3.5	8	20	2.0:1	55	K2
AML620L1802	6.0 - 20.0	17 - 20	1	3	12	22	2.0:1	150	K3
AML620P1401	6.0 - 20.0	13	1.5	-	16	25	2.0:1	130	NA
AML620P4201	6.0 - 20.0	42	3	4	27	33	2.0:1	950	K8
AML620P1001*	6.0 - 20.0	10	1.5	7	28	35	2.0:1	850	K4
7.0 - 26.0 GHz									
AML726L2301	7.0 - 26.0	23	2	4	13	19	2.0:1	200	0425
AML722L2901	7.0 - 22.0	29	1.75	4	15	25	2.0:1	300	K5
AML722P2801	7.0 - 22.0	28	1.75	5	20	30	2.0:1	375	K5
8.0 - 20.0 GHz									
AML820L2001	8.0 - 20.0	20	1.5	2.7	7	20	2.0:1	60	NA
AML820L2002	8.0 - 20.0	20	2	3	8	20	2.0:1	12V, 55	K2
AML820L2201	8.0 - 20.0	20	2	3	12	27	2.0:1	150	NA
AML820P1301	8.0 - 20.0	13	1	5.5	20	27	2.0:1	250	K3
AML820P1302	8.0 - 20.0	13 - 14.5	0.75	4.8	22	33	1.8:1	250	K3
AML820P4001	8.0 - 20.0	40	2.5	3.2*	22	28	2.0:1	1000	K6
AML820P4501	8.0 - 20.0	41	3	3.2*	26	32	2.0:1	1000	K8
*3.5dB max b/w 18-20GHz.									
8.0 - 40.0 GHz									
AML840L2002	8.0 - 40.0	18	1.5	5*	8	16	2.0:1	180	KA3
AML840L3002	8.0 - 40.0	28	2	5*	8	16	2.0:1	260	KA3
AML840L2001	8.0 - 40.0	18	1.5	5*	16	22	2.0:1	220	KA3
AML840L3001	8.0 - 40.0	28	2	5*	16	22	2.0:1	300	KA3
10.0 - 40.0 GHz									
AML1040L3601	10.0 - 40.0	36	4	4.5	10	17	2.0:1	12V, 150	
AML1035L3601	10.0 - 35.0	36	3.5	4	10	17	2.0:1	12V, 150	

Model Number	Freq. Range (GHz)	Gain (dB min)	Flat. (± dB max)	NF (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	Outline
18.0 - 40.0 GHz									
ALS1840-24-06	18.0 - 40.0	24	2	5	6	16	2.5:1	425	STK
ALS1840-28-06	18.0 - 40.0	28	2	5	6	16	2.5:1	500	STK
ALS1840-30-08	18.0 - 40.0	30	2.5	4	8	18	2.5:1	250	STK
AML1840L2002	18.0 - 40.0	18	1.5	5*	10	22	2.0:1	180	KA3
ALS1840-20-10	18.0 - 40.0	20	2.5	5	10	20	2.5:1	375	STK
AML1840L3002	18.0 - 40.0	28	2	5*	10	22	2.0:1	260	KA3
ALS1840-30-10	18.0 - 40.0	30	2.5	4.5	10	20	2.5:1	350	STK
JCA1840-400	18.0 - 40.0	38	2.75	5.1	10	19	2.2:1	575	KM4-K
AML1840L2001	18.0 - 40.0	18	1.5	5*	13	22	2.0:1	220	KA3
ALS1840-24-13	18.0 - 40.0	24	3	5.5	13	23	2.5:1	525	STK
ALS1840-34-13	18.0 - 40.0	34	3.5	5	13	23	2.5:1	675	STK
ALS1840-70-13	18.0 - 40.0	70	2.5	5.5	13	20	2.5:1	675	Dual STK-4
AML1840L3001	18.0 - 40.0	28	2	5*	16	22	2.0:1	300	002-0802
ALS1840-18-17	18.0 - 40.0	18	2.5	9	17	26	3.0:1	750	STK-6 O/L
AML2440P3001	24.0 - 40.0	28	2.5	5	19	28	2.0:1	400	KA3
AML1840L4201	18.0 - 40.0	42	3	6.5	19	25	2.2:1	650	002-0750
AML1840P2802	18.0 - 40.0	35	3	6.5	22	28	2.0:1	800	002-0985

*up to 36GHz. 5.5dB max @ 40GHz

-Specifications are at +25°C
-Operating temperature range is -20 to +70°C
-Operational range of -54 to +85°C is available

-DC Voltage is +12 to +15 VDC unless stated otherwise
-Specifications are subject to change



X-Band Low Phase Noise Amplifier achieves -168dBc/Hz at 10KHz (Pout = +20dBm)

Low Phase Noise Amplifiers

Microwave Amplifiers

Microsemi's Low Phase Noise Amplifiers utilize MMIC's and discrete transistors to provide the lowest phase noise available in the industry. Depending on the frequency and power, Microsemi uses a combination of Si Bipolar, InGaP, MESFET technologies to meet customer requirements. 100% testing and wafer selection are monitored to guarantee compliant performance. Applications include Doppler Radar, Data Communication Links and Multi-Channel Receivers.

FEATURES:

- Frequency up to 40 GHz
- Phase Noise X-Band -170dBc/Hz; Q-Band -150dBc/Hz

Model Number	Freq. (GHz)	Gain (dB) min	Flatness (± dB) max	100Hz offset	1KHz offset	10KHz offset	100KHz offset	1MHz offset	NF (dB) max	P1dB (dBm) min	VSWR (In/Out) nom	DC Power (V/mA) nom
AML052PNA1711	0.5 - 2.0	17	1	-150	-155	-160	-165	-170	5.5	25	2.0:1	12V/350mA
AML052PNA1711-S	0.5 - 2.0	17	1		-155	-160	-165	-170	5.5	24	2.0:1	365
AML083PNA1801	0.8 - 3.0	18	1	-150	-160	-166	-170	-173	5	17	2.5:1	12V/100mA
AML083PNA1801-S	0.8 - 3.0	18	1	-150	-160	-166	-170	-173	5	17	2.2:1	100
AML12PNA1311	1.0 - 2.5	11	0.5	-145	-155	-160	-165	-172	5	22	2.0:1	12V/120mA
AML12PNA1311-S	1.0 - 2.5	11	0.5	-145	-155	-160	-165	-172	5	22	2.0:1	9V/120mA
AML12PNA1011	1.0 - 2.5	10	1	-145	-155	-160	-165	-172	5	26	2.0:1	12V/300mA
AML12PNA1011-S	1.0 - 2.5	10	1	-145	-155	-160	-165	-172	5	26	2.0:1	9V/300mA
AML13PNA1801	1.0 - 3.0	18	1	-150	-158	-166	-172	-173	6	20	1.8:1	9V/200
AML13PNB1801	1.0 - 3.0	18	1	-152	-161	-168	-173	-174	6	22	1.8:1	9V350
AML11PNA3201	1.2 - 1.4	32	0.75	-135	-140	-155	-165	-170	1	20	1.8:1	120
AML22PNA1001	2.1 - 2.5	12	1	-142	-158	-165	-170	-170	6.5	23	2.0:1	12V/160
AML23PNA1002	2.0 - 3.0	10	0.5	-150	-157	-163	-168	-170	6	13	1.8:1	12V/150mA
AML23PNA1001	2.0 - 3.0	10	0.5	-145	-155	-160	-165	-168	4	23	1.8:1	190
AML23PNA1501	2.0 - 3.0	15	1	-140	-150	-160	-160	-163	3	23	1.8:1	160
AML23PNA2001	2.0 - 3.0	20	0.5	-142	-152	-157	-162	-167	4	23	1.8:1	350
AML23PNA2003	2.0 - 3.0	20	0.5		-155	-163	-170	-171	6	23	1.8:1	12V/375
AML24PNA3002	2.0 - 4.0	30	1	-135	-145	-155	-165	-170	2	27	2.0:1	380
AML26PNA1102	2.0 - 6.0	11	1	-148	-154	-162	-164	-166	5	13	1.8:1	125
AML26PN1101	2.0 - 6.0	11	1	-145	-154	-162	-165	-170	7	13	1.8:1	130
AML26PNA1101	2.0 - 6.0	11	1	-148	-157	-165	-167	-170	6	14	1.5:1	120
AML26PNA2201	2.0 - 6.0	22	1.5	-143	-152	-160	-163	-168	6	15	1.8:1	250
AML26PNA2001	2.0 - 6.0	20	2	-146	-155	-163	-165	-168	7	15	1.5:1	240
AML26PNA1001	2.0 - 6.0	10.5	1	-150	-160	-168	-174	-175	6	16.5	1.5:1	8V/115mA
AML26PNB1002	2.0 - 6.0	10	1	-150	-159	-167	-169	-172	6.5	18	1.8:1	250
AML26PNB1001	2.0 - 6.0	10	1	-153	-162	-170	-176	-176	7	18.5	1.5:1	8V/220mA
AML26PNB2001	2.0 - 6.0	20	2	-148	-157	-165	-166	-170	7	18	1.5:1	440

† Gain specified as min to max
* Power specified as Psat
**Above 500 MHz

-Specifications are at +25°C
-Operating temperature range is -20 to +70°C
-Operational range of -54 to +85°C is available

-DC Voltage is +12 to +15 VDC unless stated otherwise
-Specifications are subject to change

Noise Figure up to 36.5GHz. 5.5dB max @ 40GHz

Model Number	Freq. (GHz)	Gain (dB) min	Flatness (± dB) max	100Hz offset	1KHz offset	10KHz offset	100KHz offset	1MHz offset	NF (dB) max	P1dB (dBm) min	VSWR (In/Out) nom	DC Power (V/mA) nom
AML26PNB1004	2.0 - 6.0	10	1	-147	-158	-165	-169	-172	6.5	18	1.5:1	250
AML26PNA1103	2.0 - 6.0	11	0.75	-140	-150	-155	-160	-165	4	21	1.8:1	120
AML26PNC1002	2.0 - 6.0	9.5	1.5	-155	-165	-173	-178	-179	7.5	21	1.5:1	8V/450mA
AML26PNA1811	2.0 - 6.0	18	1	-145	-155	-160	-165	-170	6	21	2.0:1	12V/350mA
AML26PNA2002	2.0 - 6.0	20	1.5	-140	-145	-160	-165	-166	6.5	21	1.8:1	180
AML26PNC1001	2.0 - 6.0	9.5	1.5	-152	-161	-169	-171	-173	7	21	1.5:1	440
AML26PND0801	2.0 - 6.0	8	2	-155	-165	-174	-179	-180	8	22	1.5:1	8V/960mA
AML26PNC2001	2.0 - 6.0	20	2	-150	-158	-167	-168	-170	7	22	1.8:1	880
AML26PNA2202	2.0 - 6.0	22	1	-140	-145	-160	-165	-166	6.5	22	1.8:1	210
AML26PNA0801	2.0 - 6.0	8	1. 5	-145	-155	-163	-168	-172	6	23	1.8:1	9V/200mA
AML26PNA0802	2.0 - 6.0	8	1	-145	-155	-163	-168	-172	6	23	1.8:1	175
AML26PNA3202	2.0 - 6.0	29	2	-142	-148	-156	-162	-165	6	23	1.8:1	420
AML26PNB2002	2.0 - 6.0	20	2	-142	-147	-160	-167	-168	7	24	1.8:1	375
AML26PNB2003	2.0 - 6.0	20	1.5	-142	-148.5	-157.5	-167	-170	7	24	1.8:1	275
AML26PNA1011	2.0 - 6.0	9	1	-145	-150	-155	-165	-170	6	25	2.0:1	12V/230mA
AML26PNA1711	2.0 - 6.0	17	1	-145	-150	-155	-165	-170	6	25	2.0:1	12V/475mA
AML26PNA1711-S	2.0 - 6.0	17	1	-145	-150	-155	-165	-170	6	25	2.0:1	9V/475mA
AML26PNA3201	2.0 - 6.0	29	2	-143	-152	-156	-162	-164	6	25	1.8:1	600
AML26PNA1002	2.0 - 6.0	9	1	-145	-150	-155	-165	-170	6	27.5	2.0:1	12V/280mA
AML26PNC1511	2.0 - 6.0	15	2	-145	-155	-160	-165	-170	7	34	1.5:1	12V/2.7A
AML218PNA3213	2.0 - 18.0	32	2.5	-125	-140	-145	-155	-160	4	25	2.0:1	550
AML45L2611	4.0 - 5.0	26	1	-135	-144	-150	-160	-170	1.5	20	1.8:1	250
AML45PNA2211	4.5 - 5.6	22	1	-145	-155	-165	-167	-169	6	23	2.0:1	420
AML58PNC1601	5.0 - 8.0	16	0.5	-147	-157	-165	-170	-172	7	18	1.8:1	12V/800mA
AML58PNC2401	5.0 - 8.0	16	0.5	-147	-157	-165	-170	-172	7	18	1.8:1	12V/800mA
AML58PNA0801	5.0 - 8.0	8	0.5	-142	-155	-160	-165	-169	6	23	1.8:1	215
AML58PNA1601	5.0 - 8.0	16	0.5	-140	-150	-157	-162	-167	6	23	1.8:1	400
AML58PNA2401	5.0 - 8.0	24	0.75	-140	-150	-155	-160	-165	6	23	1.8:1	490
AML58PNC0801	5.0 - 8.0	8	0.5	-147	-157	-164	-170	-175	8	27	1.8:1	12V/1.1A
AML68PNB0701	6.0 - 8.0	7	1	-145	-156	-165	-168	-170	6	25	2.0:1	500
AML68PNB2201	6.0 - 8.0	22	2	-145	-155	-163	-167	-171	6	31	1.7:1	12V/2A
AML68PNB3201	6.0 - 8.0	32	2	-145	-155	-162	-166	-170	6	31	1.7:1	12V/2A
AML69PNA0801	6.0 - 9.0	8	1	-143	-153	-158	-163	-167	6.5	23	1.8:1	250
AML69PNA1601	6.0 - 9.0	16	1	-140	-150	-155	-160	-165	6.5	23	1.8:1	450
AML69PNC1511	6.0 - 9.0	14	1	-145	-155	-160	-165	-170	8	34	1.4:1	12V/2.3A
AML612PNA1001	6.0 - 12.0	10	1.5	-146	-155	-162	-165	-168	7.5	15	1.8:1	9V/200
AML612PNB1001	6.0 - 12.0	10	1.5	-148	-157	-165	-167	-171	7.5	17	1.8:1	9V350
AML612PNB1601	6.0 - 12.0	16	1.5	-147	-155	-163	-165	-170	8	17	1.8:1	9V700
AML612PNA0811	6.0 - 12.0	8	1	-143	-153	-160	-165	-170	6	21	2.0:1	12V/200mA
AML612PNA1611	6.0 - 12.0	16	1	-140	-150	-155	-160	-168	6	21	2.0:1	12V/450mA
AML612PNA0711	6.0 - 12.0	7	1	-145	-153	-160	-165	-170	6	25	2.0:1	12V/250mA
AML612PNA1411	6.0 - 12.0	14	1	-143	-150	-155	-160	-167	6	25	2.0:1	12V/500mA
AML612PNA1511-S	6.0 - 12.0	15	1.5	-143	-150	-155	-160	-167	7	24	2.0:1	9V/480 mA
AML612PNB0711	6.0 - 12.0	7	1	-146	-155	-160	-165	-170	7	27	2.0:1	12V/500mA

-Specifications are at +25°C
-Operating temperature range is -20 to +70°C
-Operational range of -54 to +85°C is available

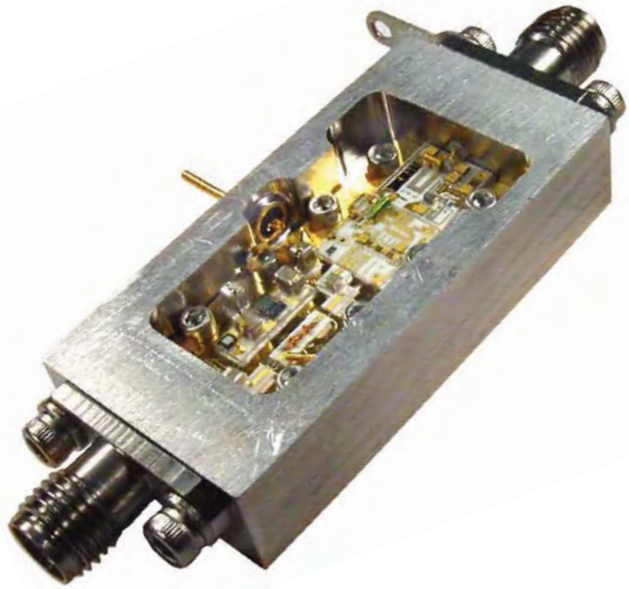
-DC Voltage is +12 to +15 VDC unless stated otherwise
-Specifications are subject to change

Model Number	Freq. (GHz)	Gain (dB) min	Flatness (± dB) max	100Hz offset	1KHz offset	10KHz offset	100KHz offset	1MHz offset	NF (dB) max	P1dB (dBm) min	VSWR (In/Out) nom	DC Power (V/mA) nom
AML612PNB1411	6.0 - 12.0	13	1	-145	-150	-155	-160	-170	6.5	27	2.0:1	12V/1A
AML612PNA0511	6.0 - 12.0	5	0.75	-145	-155	-160	-165	-168	6.5	28	2.0:1	12V/500mA
AML612PNA1211	6.0 - 12.0	12	1.25	-140	-150	-160	-162	-165	6	28	2.0:1	12V/750
AML711PNA3401	7.0 - 11.0	32	1	-130	-135	-145	-155	-160	3	22	1.5:1	12V/365mA
AML88PNC1502	7.9 - 8.1	15	1	-145	-155	-165	-169	-172	8	26	1.5:1	12V/1.5A
AML811PN2001	8.5 - 11.0	18	2	-145	-152	-160	-163	-168	-	9	1.5:1	235
AML811PN1001	8.5 - 11.0	9	1	-148	-155	-160	-165	-168	6	10	1.5:1	115
AML811PN3002	8.5 - 11.0	28	3	-148	-151	-158	-160	-161	-	10	1.8:1	350
AML811PNA5402	8.5 - 11.0	56	5.5	-149	-152	-156	-162	-168	7.5	10	2.0:1	650
AML811PN1808	8.0 - 11.0	16	3	-150	-160	-165	-167	-170	8	18	1.5:1	1800
AML811PNA3301	8.5 - 11.0	33	2	-139	-147	-153	-158	-166	6.5	24	1.5:1	540
AML811PNA4501	8.5 - 11.0	42	2.5	-137	-145	-151	-156	-164	7	25	1.5:1	800
AML812PNA0901	8.0 - 12.0	9	2	-150	-160	-167	-168	-170	6	10	1.8:1	105
AML812PNA2001	8.0 - 12.0	20	2.75	-148	-158	-160.5	-165	-168	6.5	10	1.8:1	220
AML812PNB1901	8.0 - 12.0	18	3	-150	-158	-164	-165	-166	7	12	1.5:1	425
AML812PNB0801	8.0 - 12.0	8	2	-152	-162	-168	-170	-172	7.5	13	1.5:1	220
AML812PNA0913	8.0 - 12.0	9	1	-155	-165	-170	-173	-175	6.5	15	1.5:1	12V/60
AML812PNA1813	8.0 - 12.0	18	1.5	-150	-160	-168	-172	-175	6.5	15	1.5:1	12V/120
AML812PNC1801	8.0 - 12.0	18	2	-150	-160	-165	-167	-168	7	15	1.5:1	900
AML812PNC0801	8.0 - 12.0	8	2	-154	-164	-170	-172	-174	6.5	16	1.8:1	450
AML812PNA1802	8.0 - 12.0	18	2	-135	-145	-158	-160	-165	6.5	16	1.8:1	180
AML812PNB0913	8.0 - 12.0	8	1	-155	-165	-170	-173	-175	7	17	1.5:1	12V/120
AML812PND0801	8.0 - 12.0	8	3	-156	-166	-170	-172	-175	6.5	18	1.8:1	900
AML812PNB1813	8.0 - 12.0	18	2	-150	-160	-168	-172	-175	7	17	1.5:1	12V/250
AML812PND1801	8.0 - 12.0	16	3	-154	-162	-168	-169	-170	8	18	1.5:1	1800
AML812PNB1802	8.0 - 12.0	18	2	-138	-147	-158	-162	-166	7	18	1.8:1	360
AML812PNA0802	8.0 - 12.0	8	1	-135	-145	-158	-160	-165	6	20	1.8:1	100
AML812PNC1802	8.0 - 12.0	18	1.5	-142.5	-149.5	-158.5	-163	-168	7	20	1.8:1	720
AML812PNA2202	8.0 - 12.0	22	0.25	-130	-142	-151	-160	-167	3	21	1.5:1	300
AML812PNB0701	8.0 - 12.0	7	1	-138	-147	-160	-162	-167	6.5	22	1.8:1	200
AML812PNA2003	8.0 - 12.0	20	2.5	-140	-148	-155	-160	-168	7	22	1.8:1	600
AML812PNA2002	8.0 - 12.0	20	1	-125	-135	-145	-150	-155	3.5	23	1.8:1	12V/275
AML812PNC0701	8.0 - 12.0	7	1	-140	-150	-162	-165	-170	6.5	24	1.8:1	400
AML812PNA2401	8.0 - 12.0	24	1.5	-139	-147	-155	-159	-165	6.5	24	1.8:1	600
AML812PNA0803	8.0 - 12.0	8	1.5	-145	-153	-160	-165	-168	6	25	1.8:1	250
AML812PNA1601	8.0 - 12.0	16	1	-140	-150	-156	-162	-167	7	25	1.8:1	400
AML812PND0701	8.0 - 12.0	7	1	-142	-151	-164	-167	-172	7	26	1.8:1	800
AML812PNB2401	8.0 - 12.0	24	2	-145	-153	-158	-162	-165	7	26	1.8:1	1150
AML812PNB0703	8.0 - 12.0	7	1.5	-145	-155	-162	-165	-170	6	27	1.8:1	500
AML812PNB1501	8.0 - 12.0	15	1	-142	-151	-158	-163	-169	7	27	1.8:1	800
AML812PNA2201	8.0 - 12.0	18	2	-140	-145	-148	-153	-157	5.5	27	2.0:1	650
AML812PNA3501	8.0 - 12.0	35	2	-130	-140	-148	-153	-154	3	28	2.0:1	1000
AML812PNC0703	8.0 - 12.0	7	1	-148	-157	-164	-167	-172	7	29	1.8:1	1000
AML812PNC1501	8.0 - 12.0	14	1	-144	-153	-160	-165	-170	8	29	1.8:1	1800

Model Number	Freq. (GHz)	Gain (dB) min	Flatness (± dB) max	100Hz offset	1KHz offset	10KHz offset	100KHz offset	1MHz offset	NF (dB) max	P1dB (dBm) min	VSWR (In/Out) nom	DC Power (V/mA) nom
AML812PND0703	8.0 - 12.0	7	1	-150	-159	-166	-169	-172	8	31	1.8:1	2000
AML911PNC0801	9.0 - 11.0	8	1	-153	-161	-168	-170	-175	7.5	20	1.8:1	9V/600
AML911PNA2201	9.0 - 11.0	24	1	-140	-150	-155	-160	-164	6.5	23	1.8:1	950
AML911PNA0702	9.0 - 11.0	7.5	0.5	-145	-155	-162	-166	-170	6	25	1.5:1	450
AML911PNA2901	9.0 - 11.0	30	1	-140	-147	-152	-157	-162	8	27	1.8:1	1300
AML911PNA2902	9.0 - 11.0	29	0.75*	-142	-150	-158	-163	-165	8.5	25	1.8:1	12V/1.15A
AML911PNC2901	9.0-11.0	27	3	-144	-155	-161	-165	-166	6	27	1.8:1	9V/2300
AML911PNB3201	9.0 - 11.0	32	1	-143	-154	-160	-165	-168	7	27	1.8:1	1400
AML911PNB2801	9.0 - 11.0	28	2	-140	-150	-157	-165	-167	7	30	1.8:1	12V/2.3A
AML913PNA0801	9.0 - 13.0	8	1	-133	-143	-156	-158	-163	6	20	1.8:1	12V/100mA
AML1010PNA0801	10	8	1	-148	-156	-163	-170	-171	7.5	17	1.8:1	9V/200
AML1010PNA2101	10.24	20	1	-142	-151	-158	-163	-164	6.5	20	1.8:1	375
AML1011PNA3204	10.0 - 11.0	32	1.5	-140	-148	-155	-159	-161	7	26	1.8:1	700
AML1010PND1801	10	18	-	-157	-163	-169	-171	-175	8	20	1.5:1	12V/1.8A
AML1013PNB3001	10.0 - 13.0	30	2.5	-140	-155	-160	-163	-165	8	31	1.5:1	12V/2.5A
AML1518PNA1711	15.0 - 18.0	14	0.5	-135	-145	-155	-163	-167	6	26	1.8:1	12/500
AML1618PNA1001	16.0 - 18.0	10	0.5		-140	-145	-150	-155	8	14	2.0:1	12/160
AML4040PNA1001	40	10	-	-120	-130	-135	-137	-142		19*		12V/320
AML3940PNA1001	39.0 - 40.0	10	2	-130	-140	-145	-150	-155		23*	2.0:1	12V/750
AML3940PNA1501	39.0 - 40.0	15	2	-125	-135	-140	-142	-145		23*	2.0:1	12V/350
AML4040PNB1511	40	15	2	-135	-146	-150	-155	-160		24	2.0:1	6V/1200

-Specifications are at +25°C
-Operating temperature range is -20 to +70°C
-Operational range of -54 to +85°C is available

-DC Voltage is +12 to +15 VDC unless stated otherwise
-Specifications are subject to change
- Harmonics: -12dBc typ at Input Power of +10dBm



Limiting Amplifiers

Microwave Amplifiers

Microsemi's limiting amplifiers offer excellent power flatness and signal suppression over a wide input power range. All designs employ thin film techniques for high performance and repeatability.

FEATURES:

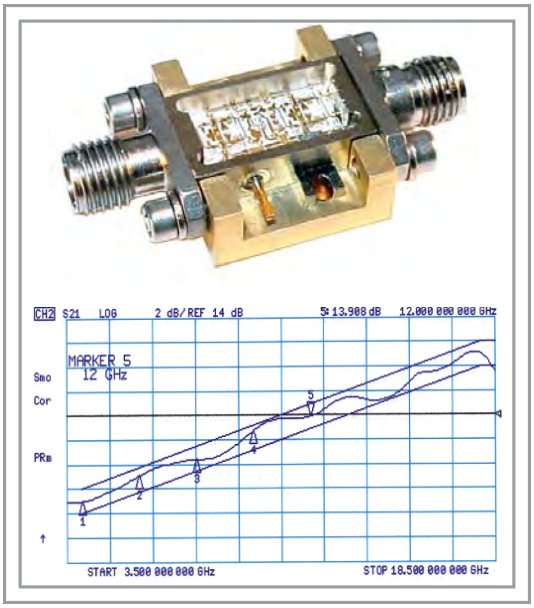
- Frequency up to 20 GHz
- Saturated Output Flatness +/- 1dB
- Signal Suppression is greater than 10dB

Model Number	Frequency Range (GHz)	Gain (dB min)	Input Power Range (dBm)	Output Power (dBm)	Noise Figure dB (@25°C max)	VSWR in/out (nom)	DC Current (mA nom)	Outline
1.0 - 2.0 GHz								
AML12LM2201	1.0 - 2.0	23 - 25	-7 to 7	10 ± 1.0	5	2.0:1	150	L3
2.0 - 4.0 GHz								
AML24LM3001	2.0 - 4.0	30	-20 to 5	11 ± 1.0	3	2.0:1	150	C4
AML24LM4001	2.0 - 4.0	40	-20 to +10	17 ± 1.5	2.5	2.0:1	250	C4
AML24LM6001	2.0 - 4.0	60	-47 to -7	11 ± 1.0	3	2.0:1	220	C6
AML24LM9001	2.0 - 4.0	90	-60 to +10	17 ± 1.5	2.5	2.0:1	450	C4+C4
2.0 - 6.0 GHz								
AML26LM4001	2.0 - 6.0	40	-20 to +10	17 ± 1.5	2.5	2.0:1	250	SC3
AML26LM9001	2.0 - 6.0	90	-60 to +10	17 ± 1.5	2.5	2.0:1	450	SC3 + SC3
AML26LM4002	2.0 - 6.0	40	-20 to 10	20 ± 1.5	3	2.0:1	250	SC3
AML26LM9002	2.0 - 6.0	90	-60 to 10	20 ± 1.5	3	2.0:1	450	SC3 + SC3
2.0 - 8.0 GHz								
AML38LM6001	3.0 - 8.0	60	-70 to 10	-12 ± 1.5	3	2.0:1	225	modK5 + modK6
AML28LM4001	2.0 - 8.0	40	-20 to +10	17 ± 1.5	4.5	2.0:1	425	K6
AML28LM9001	2.0 - 8.0	90	-60 to +10	17 ± 1.5	4.5	2.0:1	750	K5 + K6
2.0 - 18.0 GHz								
AML218LM4001	2.0 - 18.0	40	-20 to +10	14.5 ± 1.5	5.5	2.0:1	375	B5

Model Number	Frequency Range (GHz)	Gain (dB min)	Input Power Range (dBm)	Output Power (dBm)	Noise Figure dB (@25°C max)	VSWR in/out (nom)	DC Current (mA nom)	Outline
AML218LM7011	2.0 - 18.0	70	-50 to 10	16.5 ± 1.5	5	2.0:1	550	BL9
AML218LM8001	2.0 - 18.0	80	-60 to +10	14.5 ± 1.5	5.5	2.0:1	750	B5+B5
4.0 - 8.0 GHz								
AML48LM3501	4.0 - 8.0	35	-15 to +10	17 ± 1.5	3	2.0:1	250	C4
AML48LM9001	4.0 - 8.0	90	-60 to +10	17 ± 1.5	3	2.0:1	450	C4+C4
6.0 - 12.0 GHz								
AML612LM4001	6.0 - 12.0	40	-20 to +10	17 ± 1.5	4	2.0:1	425	K6
AML612LM9001	6.0 - 12.0	90	-60 to +10	17 ± 1.5	4	2.0:1	750	K5 + K6
6.0 - 18.0 GHz								
AML618LM4001	6.0 - 18.0	40	-20 to +10	17 ± 1.5	4.5	2.0:1	425	K6
AML618LM9001	6.0 - 18.0	90	-60 to +10	17 ± 1.5	4.5	2.0:1	750	K6+K6
8.0 - 18.0 GHz								
AML818LM4001	8.0 - 18.0	40	-20 to +10	17 ± 1.5	4.5	2.0:1	425	K6
AML818LM9001	8.0 - 18.0	90	-60 to +10	17 ± 1.5	4.5	2.0:1	750	K6+K6
2.0 - 20.0 GHz								
AML220LM3001	2.0 - 20.0	27	-5 to +5	22 ± 2.5	5	2.0:1	400	B4
10.0 to 20.0 GHz								
AML1018LM6001	10.0 - 18.0	60	-70 to 10	-12 ± 1.5	3	2.0:1	225	K6 + K5
AML1020LM2801	10.0 - 20.0	27	+6 to +10	31 ± 1	6	2.0:1	900	K6
8.0 - 18.0 GHz Limiting Amplifiers with Detectors								
AML816LM6011-DT	8.45 - 16.20	60	-32 to +1	25.5 ± 1	5.0	1.7:1	650	0860
AML1218LM5011-DT	11.95 - 18.50	50	-32 to +1	14.5 ± 1.5	5.0	1.7:1	450	0874

-Specifications are at +25°C
-Operating temperature range is -20 to +70°C
-Operational range of -54 to +85°C is available

-DC Voltage is +12 to +15 VDC unless stated otherwise
-Specifications are subject to change
-Consult factory for other equalizer slopes



Equalizer Amplifiers

Microwave Amplifiers

Microsemi's integrated gain equalizers compensate for system gain slope. Equalizers are narrow or wide band lossy passive circuits, of negative slope, positive slope or of parabolic type attenuation. Fixed slope equalization can vary from 3dB/octave to more than 12 dB/octave, although other slope gradients can also be achieved. The parabolic type presents low attenuation at the ends of the amplifier frequency bandwidth, and large attenuation in the middle, or a portion of the band.

FEATURES:

- Frequency up to 18 GHz
- Positive sloped and Parabolic shaped
- Low noise/high power over the full band

Model Number	Frequency Range (GHz)	Gain (dB min)	Gain Slope (dB)	Flatness (+/-) dB max	Noise Figure (dB max)	P-1dB (dBm min)	Input VSWR (nom)	Output VSWR (nom)	DC (mA (nom
AML218LE1401	2.0 - 18.0	10dB @ 2GHz 14dB @ 18GHz	4	1.5	3.6	9	2.0:1	2.0:1	150
AML218LE2301	2.0 - 18.0	14dB @ 2GHz, 23dB @ 18GHz	9	1.75	5.5dB @ 2GHz, 4.0dB @ 18GHz	10	2.0:1	250	250
AML218LE3101	2.0 - 18.0	22dB @ 2GHz, 31dB @ 18GHz	9	2.25	3.8dB @ 2GHz, 3.5dB @ 18GHz	10	2.0:1	280	280
AML218LE2702	2.0 - 18.0	18dB @ 2GHz, 27dB @ 18GHz	9	2.25	4.0dB @ 2GHz, 3.8dB @ 18GHz	18	2.0:1	350	350
AML218PE2702	2.0 - 18.0	18dB @ 2GHz, 27dB @ 18GHz	9	2.25	4.3dB @ 2GHz, 3.8dB @ 18GHz	20	2.0:1	375	375
AML48LE4001	4.0 - 8.0	36dB @ 4GHz 40dB @ 8GHz	4	1.5	1.2	10	1.8:1	1.8:1	160
AML412LE2401	4.0 - 12.0	24dB @ 4GHz, 27dB @ 12GHz	3	1.5	1.8	10	1.8:1	225	160
AML412LE4001	4.0 - 12.0	22dB @ 4GHz 34dB @ 12GHz	12	1.0	2.2	10	1.8:1	1.8:	250
AML418LE1801	4.0 - 18.0	6dB @ 4GHz, 18dB @ 18GHz	12	1.5	12dB @ 4GHz, 6dB @ 18GHz	15	2.0:1	250	
AML418PE2601	4.0 - 18.0	14dB @ 4GHz, 26dB @ 18GHz	12	2	5.0dB @ 4GHz, 4.0dB @ 4GHz	20	2.0:1	375	225
AML514LE1401	5.8 - 14.5	7dB @ 5.8GHz 10dB @ 14.5GHz	3	0.5	6	10	2.0:1	2.0:1	180
AML618LE1801	6.0 - 18.0	10dB @ 6GHz, 17dB @ 18 GHz	7	1.5	6.0dB @ 6GHz, 3.5dB @ 18GHz	10	1.8:1	130	180

Model Number	Frequency Range (GHz)	Gain (dB min)	Gain Slope (dB)	Flatness (+/-) dB max	Noise Figure (dB max)	P-1dB (dBm min)	Input VSWR (nom)	Output VSWR (nom)	DC (mA (nom
AML618LE2401	6.0 - 18.0	19dB @ 6GHz 24dB @ 18GHz	5	1.0	3.8dB @ 6GHz, 3.4dB @ 18GHz	18	2.0:1	2.0:1	220
AML618LE2601	6.0 - 18.0	20dB @ 6GHz, 27dB @ 18 GHz	7	1.75	3.5dB @ 6GHz, 3.0dB @ 18GHz	10	1.8:1	175	220
AML618PE2601	6.0 - 18.0	19dB @ 6GHz, 26dB @ 18 GHz	7	1.75	6.0dB @ 6GHz, 3.5dB @ 18GHz	20	1.8:1	250	250



Multipliers

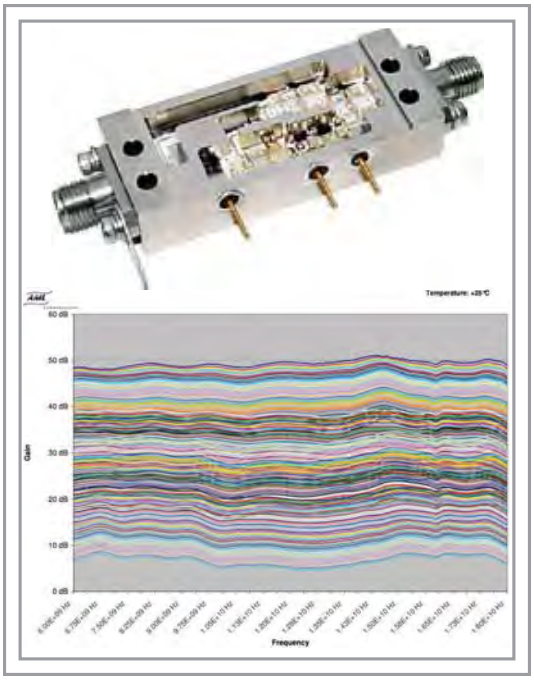
Microwave Amplifiers

Microsemi's frequency multipliers scale up the operating signal frequency by an integer multiple, "N". Microsemi specializes in multipliers with minimal noise degradation, low spurious and harmonic output, with consistent performance over drive level and operating temperature. Base models include a comprehensive line of doublers (N = 2), triplers (N = 3), and quadruplers (N = 4), along with higher order multiplication schemes up to N = 10.

Model Number	Input Frequency (GHz)	Output Frequency (GHz)	RF Power In (dBm)	RF Power Out dBm (Psat)	Harmonics (dBc) typ	Current @ +12 to +15VDC (mA)	Case Config.
ALMX2-0510-20	2.5-5	5-20	10	20	-10	375	STL-6
ALMX2-0810-20	4.25-5.25	8.5-10.5	10	20	-15	300	SLC-2
ALMX2-1020-20	5-10	10-20	10	20	-10	450	STL-6
FA-08151	6.35-7.75	12.7-15.5	10	20	-20	400	A6/ SMA/ SMA
ALMX2-1416-20	7-8	14-16	10	20	-10	350	SLC-3
FA-10201	8.85-9.85	17.7-19.7	10	20	-20	400	A6/ SMA/ SMA
ALMX2-1826-10	9-13	18-26	10	10	-10	300	STK-4
ALMX2-1826-20	9-13	18-26	10	20	-20	450	STK-6
FA-13263	9-13.3	18-26.5	10	15	-20	325	A6/K or WR42
FA-13264	9-13.3	18-26.5	10	20	-20	410	A6/K or WR42
FA-20403	10-20	20-40	10	10	-20	420	A8/K
FA-20404	10-20	20-40	10	15	-20	530	A8/K
FA-12241	10.6-11.8	21.2-23.6	10	20	-20	400	A6/ SMA/ SMA
ALMX2-2436-20	12-18	24-36	10	20	-10	550	STK-4
FA-13261	12.1-13	24.2-26	10	20	-20	400	A6/ SMA/K
ALMX2-2640-18	13-20	26-40	10	18	-20	425	DBK-6

Model Number	Input Frequency (GHz)	Output Frequency (GHz)	RF Power In (dBm)	RF Power Out dBm (Psat)	Harmonics (dBc) typ	Current @ +12 to +15VDC (mA)	Case Config.
ALMX2-2640-20	13-20	26-40	10	20	-20	550	STK-8
FA-20405	13-20	26-40	10	15	-20	375	A6/K or WR42
FA-20406	13-20	26-40	10	20	-20	480	A6/K or WR42
FA-14281	13.75-14.25	27.5-28.5	10	20	-20	400	A6/ SMA/K
FA-16321	14.55-15.65	29.1-31.3	10	20	-15	400	A6/ SMA/K
ALMX2-3036-16	15-18	30-36	0	16	-20	500	STK-4
ALMX2-3350-13	16.5-25	33-50	10	13	-20	500	STV-8
FA-25504	16.5-25	33-50	10	7	-20	375	A6/K or WR22
FA-25505	16.5-25	33-50	10	12	-20	425	A6/K or WR22
ALMX2-4060-10	20-30	40-60	10	20	-20	650	STV-8
FA-30601	20-30	40-60	10	10	-20	475	A6/V WR19
FA-32651	19-32.5	38-65	10	10	-20	550	A8/V WR19
ALMX3-2640-20	8.66-13.33	26-40	10	20	-10	550	STK-6
ALMX3-3350-13	11-16.6	33-50	10	13	-20	650	STV-8
ALMX3-3740-15	12.33-13.33	37-40	10	15	-20	475	STK-6
FA-12401	12.33-13.33	37-40	15	19	-20	350	W3/WR-28/22
ALMX3-4043-15	13.33-14.33	40-43	10	15	-20	500	STK-6
ALMX4-0810-20	2.125-2.625	8.5-10.5	10	20	-15	300	DBX-4
ALMX4-1416-20	3.5-4	14-16	10	20	-20	450	SLC-4
ALMX4-1020-20	3.75-5	15-20	10	20	-10	450	STL-8
FA-07263	4.5-6.6	18-26.5	10	15	-15	350	A8/K or WR42
FA-07264	4.5-6.6	18-26.5	10	20	-15	460	A8/K or WR42
FA-10403	5-10	20-40	10	10	-15	460	A10/K
FA-10404	5-10	20-40	10	15	-15	570	A10/K
ALMX4-2640-20	6.5-10	26-40	10	20	-10	550	STK-6
ALMX4-2640-15	6.5-10	26-40	10	15	-20	600	STK-8
FA-10405	6.6-10	26-40	10	15	-15	410	A8/K or WR42
FA-10406	6.6-10	26-40	10	20	-15	520	A8/K or WR42

Model Number	Input Frequency (GHz)	Output Frequency (GHz)	RF Power In (dBm)	RF Power Out dBm (Psat)	Harmonics (dBc) typ	Current @ +12 to +15VDC (mA)	Case Config.
ALMX4-3050-10	8.25-12.5	30-50	10	10	-10	600	STV-8
ALMX4-3350-10	8.25-12.5	33-50	10	10	-20	600	DBV-8
FA-12504	8.3-12.5	33-50	10	7	-15	420	A8/K or WR22
FA-12505	8.3-12.5	33-50	10	10	-15	540	A8/K or WR22
ALMX4-4-4052-8	10-13	40-52	10	8	-15	700	STV-6
ALMX4-4060-10	10-15	40-60	10	10	-20	750	STV-8
FA-15602	10-15	40-60	10	10	-20	875	A8/V WR19
FA-11451	10.8-11.4	43.5-45.5	10	10	-30	550	A8/K WR22
FA-13511	12.2-12.75	48.8-51	10	10	-30	525	A8/V WR22
FA-12501	12.28-12.55	49.1-50.2	15	17	-20	350	W3/ WR-22
FA-15601	14-15	56-60	10	10	-30	650	A8/V WR19
FA-16641	14.75-16	59-64	10	10	-20	450	W5/ WR-22
FA-16641	14.75-16	59-64	10	10	-20	450	W5/ WR-22
ALMX4-9096-5	22.5-24	90-96	10	5	-20	600	SPE-CIAL
ALMX6-9096-05	15-16	90-96	5	5	-15	600	SPE-CIAL
ALMX6-9395-07	15.5-15.83	93-95	5	7	-15	600	SPE-CIAL
FA-05401	4.625-5	37-40	15	19	-20	350	W5/WR-28/22
FA-05501	4.91-5.02	49.1-50.2	15	17	-20	350	W5/ WR-22



Variable Gain Amplifiers

Microwave Amplifiers

Amplifiers integrated into a system, such as a receiver front end, present stability concerns. Too much gain may cause instabilities or signal distortion in applications such as TWT transmitters. In such cases, it would be beneficial to implement an integrated analog or digital controlled attenuator into the amplifier. Microsemi offers a variety of amplifiers with variable gain control.

FEATURES:

- Frequency up to 20 GHz
- Narrow and Wide-Band Designs
- Attenuation Range up to 50dB
- Analog or Digital Controlled
- Monotonic Response
- Low Noise Figure and High Power over the full range

Model Number	Freq. Range (GHz)	Gain (dB) min	Flat-ness (+/-) dB max	NF (dB) max	P-1dB (dBm) min	OIP3 (dBm) typ	Atten-uation Range (dB)	NF (dB) max	P-1dB (dBm) min	Input VSWR (nom)	Output VSWR (nom)	DC mA (nom)
AML33P2601-VG	3.1 - 3.7	26	0.2	1.5	25	35	0 to 12	6.0	15	1.5:1	1.5:1	220
AML34P2601-VG	3.8 - 4.4	26	0.2	2.0	25	35	0 to 12	7.0	13	1.5:1	1.5:1	220
AML44P2601-VG	4.1 - 4.7	26	0.2	2.0	25	35	0 to 12	7.0	13	1.5:1	1.5:1	220
AML45P2601-VG	4.8 - 5.4	26	0.2	2.0	25	35	0 to 12	7.0	13	1.5:1	1.5:1	220
AML67P2601-VG	6.8 - 7.4	26	0.2	2.0	25	35	0 to 12	7.0	13	1.5:1	1.5:1	220
AML24P2601-VG	2.0 - 4.0	26	1.0	1.8	25	35	0 to 12	6.0	13	1.8:1	1.8:1	220
AML48P2601-VG	4.0 - 8.0	24	1.0	2.5	25	35	0 to 12	7.0	13	1:8:1	1.8:1	220
AML612L1501-VG	6.0 - 12.0	15	1.0	3.0	15	25	0 to 12	3.8	2	1.8:1	1.8:1	200
AML612P2501-VG	6.0 - 12.0	25	1.5	3.2	25	35	0 to 12	5.0	14	1.8:1	1.8:1	300
AML714L2301-VG	7.0 - 14.0	23	3	4	5	15	0 to 10	5.5	-5	2.0:1	2.0:1	12V, 110
AML818P1501-VG	8.0 - 18.0	15	1.0	3.0	20	30	0 to 12	3.0	20	1.8:1	1.8:1	200
AML818P2301-VG	8.0 - 18.0	25	1.5	3.0	25	35	0 to 12	7.0	12	1.8:1	1.8:1	300
AML1015L3001-VG	10.0 - 15.0	30	2.0	6.0	15	25	0 to 30	10.0	-15	2.0:1	2.0:1	300
AML120P3201-VG	1.0 - 20.0	32	3.5	5	27	32	0 to 10	4.5	17	2.0:1	2.0:1	15V, 1500
AML218L1401-VG	2.0 - 18.0	14	2.0	4.5	10	18	0 to 10	5.0	5	2.0:1	2.0:1	180
AML220P3201-VG	2.0 - 20.0	32	3.5	5	21	30	0 to 15	6	14	2.0:1	2.0:1	12V, 650
AML0520L0501-VG	0.5 - 20.0	5	1.5	5.3	8	15	0 to 10	9.0	-2	2.0:1	2.0:1	150
AML0520L1401-VG	0.5 - 20.0	14	2.0	5.0	10	15	0 to 10	5.8	5	2.0:1	2.0:1	200

Notes:
- Attenuation Control Voltage between 0 & +5 V
- Attenuation Range up to 60 dB is available. Please contact factory for details
- Control Voltage 0 to +15VDC is available



High Dynamic Range

RF & Microwave Amplifiers

Microsemi's High Dynamic Range Amplifiers provide the system engineer with a wide range of frequency, gain, power and noise figure with low intermodulation distortion. They employ various cancellation techniques such as push-pull feedback.

FEATURES:

- Frequency up to 18 GHz
- Output IP2 100dBm up to 500MHz; 60dBm up to 18GHz

Model Number	Frequency Range (MHz)	Gain (dB typ)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	Output IP2 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	V g	Outline
0.5-200MHz										
BR000520011	0.5 - 200	11	5.5	28*	46	74	2.0:1	250	15	OL2
2-32MHz										
AR01003252X	2 - 32	22	3.7	26	46	75	2.0:1	150	28	OL2
AR01003250X	2 - 32	22	4.5	30	49	80	2.0:1	240	28	OL2
AR01003251X	2 - 32	21	5.5	32	52	100	2.0:1	440	28	OL4
1-100MHz										
BR00110010	1 - 100	10	5.5	30	49	75	2.0:1	450	15	OL2
BR00110022	1 - 100	22	5	30	49	74	2.0:1	600	15	OL3
2-200MHz										
AR01020060X	2 - 200	22	5.5	30	48	78	2.0:1	220	28	OL2
AR01020061X	2 - 200	21	6.6	32	50	98	2.0:1	440	28	OL2
10-500MHz										
BR20050060X	10 - 500	16.5	2.3	15	30	41	2.0:1	30	15	OL2
BP20050080X	10 - 500	12	3	16	32	45	2.0:1	40	15	OL2
AR30050068X	10 - 500	14	3	17	34	63	2.0:1	60	28	OL2
BR20050070X	10 - 500	14	3	17	32	62	2.0:1	60	15	OL2
BP20050084X	10 - 500	10	3.8	18	34	62	2.0:1	80	15	OL2
BP20050087X	10 - 500	26	2.5	18	34	52	2.0:1	110	15	OL2
BP01050025	10 - 500	25	3	18	34	65	2.0:1	140	15	OL3

Model Number	Frequency Range (MHz)	Gain (dB typ)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	Output IP2 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	V g	Outline
10-1000MHz										
BP10100030X	10 - 1000	12	3.8	16	33	45	2.0:1	40	15	OL2
BP10100031X	10 - 1000	10	5	18	35	67	2.0:1	80	15	OL2
20-500MHz										
BR02050011	20 - 500	11	4	17	32	44	2.0:1	60	15	OL2
AR30050040X	20 - 500	10	4.5	19	35	62	2.0:1	120	28	OL2
BP40050010X	20 - 500	11	3.8*	20	36	50	2.0:1	100	15	OL20
BP40050012X	20 - 500	22	3.8*	20	36	52	2.0:1	180	15	OL20
BP40050022X	20 - 500	23	3.8*	22	38	54	2.0:1	250	15	OL20
BP40050020X	20 - 500	13	3.8*	22	38	54	2.0:1	200	15	OL20
BR20050078X	20 - 500	18	5.6	25	38	70	2.0:1	210	15	OL2
BR02050017	20 - 500	17	6.2	27	40	90	2.0:1	420	15	OL4
BP40050030X	20 - 500	11	4.5*	28	41	51	2.0:1	350	15	OL35
BP40050036X	20 - 500	34	3.8*	28	40	51	2.0:1	600	15	OL39
BP20070022L	20 - 500	22	3.8*	31	43	60	2.0:1	950	15	OL37
BP40050070X	20 - 500	9	6.0*	31	44	60	2.0:1	750	15	OL35
BP40050076X	20 - 500	33	3.8*	31	42	60	2.0:1	1100	15	OL39
AR30050073X	20 - 500	30	3.8*	32	46	60	2.0:1	600	28	OL3
AR30050070X	20 - 500	18	6.8	32	47	73	2.0:1	460	28	OL2
AR30050072X	20 - 500	16	8	34	49	90	2.0:1	960	28	OL4
BP20050097	20 - 500	18	9.5	32	51	80	2.5:1	580	15	OL2
BP20050098	20 - 500	17	11	11	53	100	2.5:1	1200	15	OL4
20-1000MHz										
BP10100058X	20 - 1000	11	4.2	17	30	44	2.0:1	60	15	OL2
BP10120058X	20 - 1000	9	5.6	19	33	62	2.0:1	120	15	OL2
AR10100054X	20 - 1000	10	5.5	19	33	60	2.0:1	120	28	OL2
BP50060010X	20 - 1000	11	3.8*	20	35	48	2.0:1	100	15	OL20
BP50060012X	20 - 1000	20	4.0*	21	35	48	2.0:1	180	15	OL20
BP50060020X	20 - 1000	13	3.8*	22	38	52	2.0:1	200	15	OL20
BP50060022X	20 - 1000	23	4.0*	22	38	52	2.0:1	300	15	OL20
BP50060036X	20 - 1000	34	4.0*	28	40	50	2.0:1	630	15	OL39
BP50060030X	20 - 1000	11	4.5*	28	40	50	2.0:1	350	15	OL35
BP10217042	20 - 1000	18	6.5*	27	40	60	2.0:1	240	28	OL2
AR10610005X	20 - 1000	28	4.5	27	40	60	2.0:1	500	28	OL3
AR10100047X	20 - 1000	29	4.8	27	40	56	2.0:1	300	28	OL2

-Specifications are at +25°C
-Operating temperature range is -20 to +70°C
-Operational range of -54 to +85°C is available

-DC Voltage is +12 to +15 VDC unless stated otherwise
-Specifications are subject to change

* Higher below 100 MHz
** Above 500 MHz

Model Number	Frequency Range (MHz)	Gain (dB typ)	Noise Figure (dB max)	P-1dB (dBm min)	Output IP3 (dBm typ.)	Output IP2 (dBm typ.)	VSWR In/Out (nom)	DC Current (mA nom)	V g	Outline
BP10100085X	20 - 1000	11	3.5*	27	43	52	2.0:1	200	15	OL2
BP50070020X	20 - 1000	23	4.0*	30	43	62	2.0:1	950	15	OL20
BP50060060X	20 - 1000	9	6.0*	30	43	62	2.0:1	760	15	OL35
BP10100086X	20 - 1000	15	9.6	31	44	80	2.0:1	1500	15	OL4
BP10217049	20 - 1000	18	11	11	47	75	2.5:1	690	15	OL2
BP10217050	20 - 1000	16	12	12	49	92	3.0:1	1200	15	OL4
20-2000MHz										
BP60070010X	20 - 2000	10	4.3*	20	36	49	2.0:1	100	15	OL20
BP60070012X	20 - 2000	13	4.5*	22	38	54	2.0:1	180	15	OL20
BP10200060X	20 - 2000	24	4.6*	22	38	54	2.0:1	260	15	OL20
BP60070040X	20 - 2000	11	4.5*	28	40	49	2.0:1	380	15	OL35
BP60070023X	20 - 2000	34	4.6*	28	40	50	2.0:1	550	15	OL37
BP60070024X	20 - 2000	32	4.6*	30	43	62	2.0:1	1050	15	OL39
BP60070020X	20 - 2000	22	4.6*	30	43	62	2.0:1	950	15	OL37
BP60070048X	20 - 2000	9	8.5*	31	43	62	2.0:1	780	15	OL35
20-3000MHz										
AML20M3P3301	20 - 3000	33	2.0**	17	32	42	2.0:1	190	15	modK4
AML20M3P1101	20 - 3000	11	4.5**	23	39	49	2.0:1	120	15	modK2
AML20M3P4201	20 - 3000	42	2.0**	23	37	47	2.0:1	375	15	modK5
AML20M3P1001	20 - 3000	10	5.5**	27	43	53	2.0:1	275	15	modK2
AML20M3P2101	20 - 3000	21	5.5**	27	43	53	2.0:1	400	15	modK3
AML20M3P4001	20 - 3000	40	2.0**	27	42	52	2.0:1	550	15	modK5
2000 - 18000MHZ										
AML26P3501	2000-6000	35	3.5	29	39	62	1.8:1	1000	12	SCP5
AML618P3202	6000-18000	32	4.0	28	37	60	1.8:1	1200	12	KP8

High Power Narrow Band Microwave Amplifiers



This family of amplifiers covers most communication and radar bands, as well as other popular frequency bands. Internally matched GaAs devices are used where available, providing cost effective solutions with excellent linearity.

FEATURES:

- Power up to 60 Watts
- Frequency up to 40 GHz
- TTL Controlled Pulser Option with 50ns rise/fall time

STANDARD OPTIONS:

- Gain
- Output Power
- Heatsink
- Fan
- Temperature compensation
- Gain and Phase Matching
- Psat control
- Hermetic Seal

Model Number	Frequency Range (GHz)	Psat (dBm)	Psat (W)	P1dB (dBm)	Gain (dB)	Vd (VDC)	Id (A)	Outline
L0101-43	1.6265-1.6605	43.5	22.4	43	50	15	9	3
L0102-42	1.8 - 2.0	42	15.8	41	46	15	7.5	3
L0102-44	1.8 - 2.0	44	25	43	45	15	10	3
L0202-42	2.0 - 2.4	42	15.8	41	46	15	7.5	3
L0202-44	2.0 - 2.4	43.5	22.4	42	45	15	10	3
L0203-42	2.4 - 2.8	42	15.8	41	46	15	6.5	1
L0203-44	2.4 - 2.8	44	25	43	45	15	10	3
L0303-35	3.1 - 3.5	35.5	3.5	34.5	38	15	2.5	9
L0303-38	3.1 - 3.5	38.5	7	37.5	38	15	4	9
L0303-41	3.1 - 3.5	41.5	14	40.5	47	15	7.5	3
L0303-39	3.3 - 3.6	39	8	38	35	15	2.5	9
L0303-45	3.3 - 3.6	45.5	35	44.5	40	15	14	1
L0304-35	3.7 - 4.2	35.5	3.5	34.5	38	15	2.5	9
L0304-38	3.7 - 4.2	38.5	7	37.5	38	15	4	9
L0304-40	3.7 - 4.2	40.5	11	39.5	43	15	6	1
L0304-42	3.7 - 4.2	42	15.8	41	43	15	8	3
L0304-43	3.7 - 4.2	43.5	22.4	42.5	43	15	11	3
L0304-46	3.7 - 4.2	46.5	44.6	45.5	44	15	20	800
L0405-35	4.4 - 5.0	35.5	3.5	34.5	37	15	2.5	1
L0405-38	4.4 - 5.0	38.5	7	37.5	37	15	4	1
L0405-40	4.4 - 5.0	40.5	11	39.5	43	15	6	1
L0405-42	4.4 - 5.0	42	15.8	41	43	15	8	3
L0405-43	4.4 - 5.0	43.5	22.4	42.5	43	15	11	3
L0405-46	4.4 - 5.0	46	40	45	45	15	12	3
L0506-47	5.0 - 6.0	47	50	45.5	45	12	60	1092-1
L0505-47	5.25 - 5.75	47	50	46	48	15	27	814 A

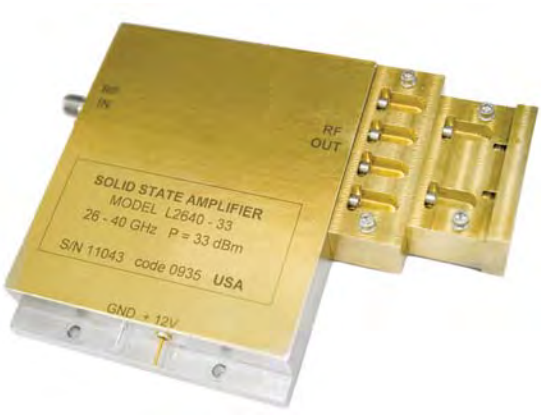
-Specifications are given at +25°C.
-The operating temperature range is from 0°C to +50°C.
-Hermetic seal option is available for operation below 0°C.
- All specifications are subject to change.

Model Number	Frequency Range (GHz)	Psat (dBm)	Psat (W)	P1dB (dBm)	Gain (dB)	Vd (VDC)	Id (A)	Outline
L0505-35	5.3 - 5.9	35.5	3.5	34.5	37	15	2.5	1
L0505-38	5.3 - 5.9	38.5	7	37.5	37	15	4	1
L0505-40	5.3 - 5.9	40.5	11	39.5	43	15	6	1
L0505-42	5.3 - 5.9	42	15.8	41	43	15	8	3
L0505-43	5.3 - 5.9	43.5	22.4	42.5	43	15	11	3
L0505-45	5.3 - 5.9	45	31.6	44	42	15	14	3
L0505-46	5.3 - 5.9	46.5	44.6	45.5	44	15	22	3
L0505-48	5.3 - 5.9	48	63	47	50	15	29	800
L0506-35	5.9 - 6.4	35.5	3.5	34.5	35	15	2.5	1
L0506-37	5.9 - 6.4	37.5	5.6	36.5	44	15	4.5	1
L0506-38	5.9 - 6.4	38.5	7	37.5	42	15	5	1
L0506-40	5.9 - 6.4	40.5	11	39.5	43	15	6	1
L0506-42	5.9 - 6.4	42	15.8	41	43	15	8	3
L0506-43	5.9 - 6.4	43.5	22.4	42.5	43	15	11	3
L0506-45	5.9 - 6.4	45	31.6	44	42	15	14	3
L0506-46	5.9 - 6.4	46.5	44.6	45.5	44	15	20	814 A
L0506-48	5.9 - 6.4	48	63	47	50	15	29	800
L0607-35	6.4 - 7.2	35.5	3.5	34.5	35	15	2.5	9
L0607-37	6.4 - 7.2	37.5	5.6	36.5	44	15	4.5	1
L0607-38	6.4 - 7.2	38.5	7	37.5	42	15	5	1
L0607-40	6.4 - 7.2	40	10	39	43	15	6	1
L0607-42	6.4 - 7.2	42	15.8	41	43	15	8	3
L0607-43	6.4 - 7.2	43.5	22.4	42.5	43	15	11	3
L0607-45	6.4 - 7.2	45	31.6	44	42	15	14	3
L0607-46	6.4 - 7.2	46.5	44.6	45.5	44	15	20	3
L0607-48	6.4 - 7.2	48	63	47	50	15	29	800
L0707-35	7.1 - 7.7	35.5	3.5	34.5	30	15	2.5	1
L0707-38	7.1 - 7.7	38.5	7	37.5	35	15	5	1
L0707-40	7.1 - 7.7	40.5	11	39.5	40	15	6	1
L0707-42	7.1 - 7.7	42	15.8	41	45	15	10	3
L0707-45	7.1 - 7.7	45	31.6	44	45	15	17	3
L0708-35	7.7 - 8.5	35.5	3.5	34.5	30	15	2.5	1
L0708-38	7.7 - 8.5	38.5	7	37.5	35	15	5	1
L0708-40	7.7 - 8.5	40.5	11	39.5	40	15	6	1
L0708-41	7.7 - 8.5	41.5	14	40	45	15	8.5	1
L0708-42	7.7 - 8.5	42	15.8	41	45	15	10	3
L0708-44	7.7 - 8.5	44	25	43	45	15	15	3
L0708-45	7.7 - 8.5	45.5	35	44	45	15	25	3
L0708-48	7.7 - 8.5	48	63	47	47	15	40	800
L0809-35	8.5 - 9.6	35.5	3.5	34.5	33	15	2.5	9

Model Number	Frequency Range (GHz)	Psat (dBm)	Psat (W)	P1dB (dBm)	Gain (dB)	Vd (VDC)	Id (A)	Outline
L0809-38	8.5 - 9.6	38	6.3	37	38	15	5	9
L0809-40	8.5 - 9.6	40.5	11	39.5	41	15	9	3
L0809-45	8.5 - 9.6	45.5	35	44.5	50	15	22	834-5
L0910-33	9.0 - 10.5	33	2	32	33	15	2	9
L0910-35	9.0 - 10.5	35.5	3.5	34.5	33	15	2.5	9
L0910-38	9.0 - 10.5	38	6.3	37	38	15	5	9
L0910-40	9.0 - 10.5	40.5	11	39.5	41	15	9	1
L0910-43	9.0 - 10.5	43	20	42	45	15	12	3
L0910-45	9.0 - 10.5	45.5	35	44.5	45	15	24	814 E
L1011-33	10.7 - 11.7	33	2	32	30	15	2	9
L1011-35	10.7 - 11.7	35	3	34	33	15	3.5	1
L1011-37	10.7 - 11.7	37	5	36	36	15	4.5	1
L1011-38	10.7 - 11.7	38	6.3	37	38	15	8	1
L1011-40	10.7 - 11.7	40	10	39	40	15	9.5	1
L1011-41	10.7 - 11.7	41	12.5	40	40	15	10.5	1
L1011-43	10.7 - 11.7	43	20	42	40	15	15	814 E
L1011-44	10.7 - 11.7	44	25	43	45	15	17	814 E
L1213-35	12.7 - 13.2	35	3	34	30	15	2.5	9
L1213-37	12.7 - 13.2	37	5	36	32	15	3.5	1
L1213-38	12.7 - 13.2	38	6.3	37	33	15	5	1
L1213-40	12.7 - 13.2	40	10	39	35	15	7.5	1
L1213-41	12.7 - 13.2	41	12	40	36	15	10	895
L1213-43	12.7 - 13.2	43	20	42	38	15	15	895
L1414-33	14.0 - 14.5	33	2	32	40	15	2	9
L1414-35	14.0 - 14.5	35	3	34	40	15	2.5	1
L1414-37	14.0 - 14.5	37	5	36	44	15	4.5	1
L1414-38	14.0 - 14.5	38	6.3	37	44	15	5.5	1
L1414-40	14.0 - 14.5	40	10	39	45	15	8	1
L1414-41	14.0 - 14.5	41	12.5	40	45	15	10	1
L1414-43	14.0 - 14.5	43	20	42	50	15	15	3
L1415-41	14.0 -15.0	41	12.5	40	40	12	10	814 A
L1617-48	16.0 - 17.0	48.5	70	47.5	45	12	110	371-10
L1717-33	17.3 - 17.7	33	2	32	30	15	2.5	9
L1717-35	17.3 - 17.7	36	4	35	33	15	5	9
L1820-33	18.0 - 20.0	33	2	32	30	12	2.5	9
L1820-36	18.0 - 20.0	36	4	35	33	12	5	9
L2123-33	21.0 - 23.0	33	2	32	30	12	2	9
L2426-40	24.0 - 26.0	40	10	39	40	12	16	9
L2729-39	27.0 - 29.0	39	8	38	40	12	16	9
L3434-40	34.0 - 34.5	40	10	39	45	12	17	1023-1

-Specifications are given at +25°C.
-The operating temperature range is from 0°C to +50°C.
-Hermetic seal option is available for operation below 0°C.
- All specifications are subject to change.

High Power Wide Band Microwave Amplifiers



Our high power wide-band amplifiers use proprietary technology, which achieves the highest power and bandwidth combination. This family includes exceptional amplifiers, such as 6-18 GHz 40 Watts and 30-40 GHz 5 Watts.

Features:

- Power up to 40 Watts
- Frequency up to 40 GHz
- TTL Controlled Pulser Option with 50ns rise/fall time

STANDARD OPTIONS:

- Gain
- Output Power
- Heatsink
- Fan
- Temperature compensation
- Gain and Phase Matching
- Psat control
- Hermetic Seal

Model Number	Frequency Range (GHz)	Psat (dBm)	Psat (W)	P1dB (dBm)	Gain (dB)	Vd (VDC)	Id (A)	Outline
L005020-37	0.5 - 2.0	37	5	36	40	15	5.5	814 A
L005020-39	0.5 - 2.0	39	8	38	40	15	8	814 A
L0102-37	1.0 - 2.0	37	5	36	35	15	2.5	1
L0102-39	1.0 - 2.0	39	8	38	40	15	4.5	3
L0102-40	1.0 - 2.0	40.5	11	39	45	15	7	814 A
L0102-43	1.0 - 2.0	43.5	22	42	45	15	14	834-6
L0104-37	1.0 - 4.0	37	5	36	35	15	3.5	1
L0104-40	1.0 - 4.0	40	10	39	40	15	8	3
L0104-42	1.0 - 4.0	42	15	41	40	15	10	814 A
L0104-43	1.0 - 4.0	43	20	42	40	15	12	834-9
L008042-37	0.8 - 4.2	37	5	36	35	15	3.5	1
L008042-40	0.8 - 4.2	40	10	39	40	15	8	3
L008042-42	0.8 - 4.2	42	15	41	40	15	10	814 A
L008042-43	0.8 - 4.2	43	20	42	40	15	12	834-9
L008042-44	0.8 - 4.2	44	25	43	40	15	20	834-8A
L0204-37	2.0 - 4.0	37	5	35.5	35	15	2.5	1
L0204-39	2.0 - 4.0	39	8	38	40	15	4.5	1
L0204-41	2.0 - 4.0	41	12	40	45	15	7	814 A
L0204-44	2.0 - 4.0	44	25	42.5	45	15	14	834-6
L0106-30	1.0 - 6.5	30	1	29.5	30	15	1.5	1
L0206-30	2.0 - 6.0	30	1	28.5	30	15	1.5	9
L0206-32	2.0 - 6.0	32	1.6	30.5	32	15	2	9
L0206-34	2.0 - 6.0	34.5	2.8	33	35	15	2.5	1
L0206-36	2.0 - 6.0	36.5	4.5	35	35	15	4	1
L0206-38	2.0 - 6.0	38	6.3	36.5	40	15	4.5	1

Model Number	Frequency Range (GHz)	Psat (dBm)	Psat (W)	P1dB (dBm)	Gain (dB)	Vd (VDC)	Id (A)	Outline
L0206-40	2.0 - 6.0	40	10	38.5	40	15	8.5	814 C
L0206-43	2.0 - 6.0	43	20	42	40	12	32	834-9
L0206-44	2.0 - 6.0	44.5	28	43	40	12	34	1092-2
L0208-27	2.0 - 8.0	27	0.5	25.5	27	15	1	4
L0208-30	2.0 - 8.0	30	1	28.5	30	15	2	9
L0208-32	2.0 - 8.0	32	1.6	30.5	35	12	4	9
L0208-34	2.0 - 8.0	34.5	2.8	33	35	15	2.5	1
L0208-36	2.0 - 8.0	36	4	34.5	35	15	4	1
L0208-38	2.0 - 8.0	38.5	7	37	40	15	8	814 C
L0208-41	2.0 - 8.0	41	12	40	45	15	18	834-8
L0218-19	2.0 - 18.0	19	0.08	17.5	25	12	0.5	4
L0218-21	2.0 - 18.0	21	0.12	18.5	25	12	0.7	4
L0218-23	2.0 - 18.0	23	0.2	21.5	30	12	1	4
L0218-25	2.0 - 18.0	25.5	0.35	24.5	30	12	1	4
L0218-28	2.0 - 18.0	27.5	0.6	26	30	15	1.5	9
L0218-30	2.0 - 18.0	30.5	1.1	29.5	30	15	2.5	9
L0218-32	2.0 - 18.0	32	1.6	31	35	15	4.5	814 D
L0220-24	2.0 - 20.0	24	0.25	22.5	25	12	1	4
L0220-28	2.0 - 20.0	28	0.6	27	30	15	2	9
L0220-30	2.0 - 20.0	30	1	29	30	15	3	9
L0408-35	4.0 - 8.0	35.5	3.5	34	35	15	2.5	1
L0408-38	4.0 - 8.0	38	6.3	36.5	40	15	4	1
L0408-40	4.0 - 8.0	40	10	39	45	15	8.5	814 C
L0408-43	4.0 - 8.0	43	20	41.5	45	15	17	834-7
L0610-33	6.0 - 10.0	33.5	2.2	32.5	35	15	2.5	9
L0610-36	6.0 - 10.0	36	4	35	35	15	5	9
L0610-38	6.0 - 10.0	38	6.3	37	40	15	9	3
L0612-33	6.0 - 12.0	33.5	2.2	32	35	12	2.5	9
L0612-36	6.0 - 12.0	36	4	34.5	35	12	3	9
L0612-38	6.0 - 12.0	38	6.3	36.5	40	12	6	9
L0612-41	6.0 - 12.0	41	12.5	39.5	40	12	12	814 E
L0612-44	6.0 - 12.0	44	25	42.5	45	12	22	834-5
L0614-33	6.0 - 14.0	33.5	2.2	31.5	35	12	2.5	9
L0614-35	6.0 - 14.0	35.5	3.5	34	35	12	4	9
L0614-38	6.0 - 14.0	38	6.3	36.5	40	12	8.5	9
L0614-41	6.0 - 14.0	41	12.5	39.5	40	12	12	814 E
L0614-44	6.0 - 14.0	44	25	42.5	45	12	22	834-5

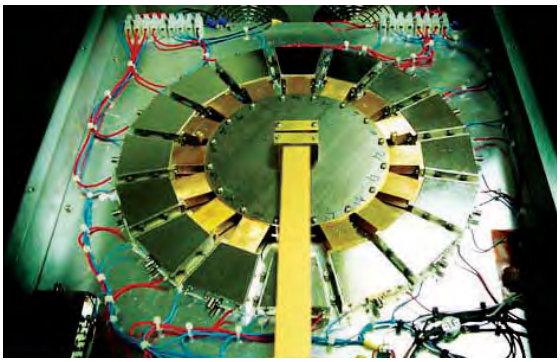
-Specifications are given at +25°C.
-The operating temperature range is from 0°C to +50°C.
-Hermetic seal option is available for operation below 0°C.
- All specifications are subject to change.

Model Number	Frequency Range (GHz)	Psat (dBm)	Psat (W)	P1dB (dBm)	Gain (dB)	Vd (VDC)	Id (A)	Outline
L0618-30	6.0 - 18.0	30	1	28.5	30	12	1.5	9
L0618-32	6.0 - 18.0	32.5	1.8	31	35	12	2.5	9
L0618-35	6.0 - 18.0	35.5	3.5	34	35	12	3	9
L0618-37	6.0 - 18.0	37	5	35.5	35	12	6	9
L0618-40	6.0 - 18.0	40	10	38.5	40	12	12	814 E
L0618-43	6.0 - 18.0	43	20	41.5	45	12	22	834-5
L0618-46	6.0 - 18.0	46	40	44	47	12	52	371-10
L0620-25	6.0 - 20.0	25	0.3	23.5	25	12	1	4
L0620-28	6.0 - 20.0	28	0.5	26.5	28	12	2	9
L0620-30	6.0 - 20.0	30	0.8	29	30	12	3.5	9
L0711-34	7.0 - 11.0	34	2.5	32.5	35	12	2	9
L0711-36	7.0 - 11.0	36	4	34.5	35	12	3	9
L0711-38	7.0 - 11.0	38	6.3	36.5	40	12	6	9
L0811-36	8.0 - 11.0	36	4	34.5	35	12	3.5	9
L0811-38	8.0 - 11.0	38	6.3	36.5	40	12	6	9
L0811-40	8.0 - 11.0	40	10	38	40	12	5	9
L0811-42	8.0 - 11.0	42	15.8	41	40	12	9	9
L0812-33	8.0 - 12.0	33.5	2.2	32	35	12	2	9
L0812-36	8.0 - 12.0	36	4	34.5	35	12	3	9
L0812-38	8.0 - 12.0	38	6	36.5	38	12	6	9
L0812-40	8.0 - 12.0	40	10	38.5	40	12	7	1
L0812-42	8.0 - 12.0	42	16	41	45	12	8	1
L0812-44	8.0 - 12.0	44	25	42.5	45	12	16	814 E
L0812-46	8.0 - 12.0	46	40	45	45	12	28	834-5
L0818-30	8.0 - 18.0	30	1	28.5	30	12	1.5	9
L0818-32	8.0 - 18.0	32.5	2	31.5	35	12	2	9
L0818-35	8.0 - 18.0	35.5	3.5	33.5	35	12	3	9
L0818-37	8.0 - 18.0	37	5	35.5	38	12	6	1
L0818-40	8.0 - 18.0	40	10	38.5	40	12	12	814 E
L0818-43	8.0 - 18.0	43	20	41.5	45	12	22	834-5
L0818-46	8.0 - 18.0	46	40	44	47	12	52	371-10
L1218-32	12.0 - 18.0	32.5	1.7	31	33	12	2	9
L1218-35	12.0 - 18.0	35.5	3.5	34.5	35	12	3	9
L1218-37	12.0 - 18.0	37	6.3	36	37	12	6	9
L1218-40	12.0 - 18.0	40	10	38.5	40	12	12	814 E
L1218-43	12.0 - 18.0	43	20	41.5	45	12	22	834-5
L1218-46	12.0 - 18.0	46	40	44	47	12	52	371-10

Model Number	Frequency Range (GHz)	Psat (dBm)	Psat (W)	P1dB (dBm)	Gain (dB)	Vd (VDC)	Id (A)	Outline
L1316-34	13.0 - 16.0	34	2.5	33	35	12	3	9
L1316-36	13.0 - 16.0	36	4	35	35	12	5	9
L1316-38	13.0 - 16.0	38	6	37	40	12	9	9
L1316-47	13.0 - 16.0	47	50	46	45	12	55	371-10
L1316-48	13.0 - 16.0	48	63	47	45	12	110	371-10
L1618-33	16.0 - 18.0	33	2	32	33	12	2	9
L1618-36	16.0 - 18.0	36	4	35	35	12	3	9
L1618-38	16.0 - 18.0	38	6.3	37	37	12	6	9
L1618-40	16.0 - 18.0	40	10	38.5	40	12	12	814 E
L1618-43	16.0 - 18.0	43	20	41.5	45	12	22	834-5
L1618-46	16.0 - 18.0	46	40	45	45	12	55	371-10
L1618-47	16.0 - 18.0	47	50	46	45	12	110	371-10
L1621-28	16.0 - 21.0	28.5	0.7	27.5	30	12	2	4
L1621-30	16.0 - 21.0	30.5	1.1	29.5	30	12	3	9
L1621-32	16.0 - 21.0	32.5	1.7	31.5	35	12	5	9
L1628-25	16.0 - 28.0	24.5	0.28	23.5	25	12	1	4
L1628-27	16.0 - 28.0	27	0.5	26	28	12	1.5	9
L1628-29	16.0 - 28.0	29	0.7	28	30	12	2	9
L1727-29	17.0 - 27.0	28.5	0.8	27.5	30	12	1.5	4
L1727-31	17.0 - 27.0	31	1.2	29.5	35	12	2	9
L1727-33	17.0 - 27.0	33	2	31.5	35	12	4	9
L1820-29	18.0 - 20.0	29.5	0.9	28	30	12	1.5	9
L1820-32	18.0 - 20.0	32.5	1.7	31	30	12	2.5	9
L1820-35	18.0 - 20.0	35	3.1	33.5	35	12	5	9
L1826-30	18.0 - 26.0	30	1	29	25	12	1.8	9
L1826-32	18.0 - 26.0	32	1.6	31	35	12	3.4	9
L1826-34	18.0 - 26.0	34	2.5	33	35	12	4	9
L1826-36	18.0 - 26.0	36	4	35	38	12	8	814 E
L1840-23	18.0 - 40.0	23	0.2	22	25	12	1	9
L1840-25	18.0 - 40.0	25	0.3	23	25	12	1.5	9
L2228-30	22.0 - 28.0	30	1	29	30	12	2	4
L2228-32	22.0 - 28.0	32	1.6	31	35	12	3	9
L2228-34	22.0 - 28.0	34	2.5	33	35	12	5	9
L2326-40	23.3 - 26.0	40	10	39	45	12	17	9
L2331-39	23.0 - 31.5	39	8	38	45	12	17	9
L2330-34	23.5 - 30.5	34.5	2.8	33	35	12	8	9
L2430-38	24.5 - 30.0	38	6.3	37	35	12	16	9

Model Number	Frequency Range (GHz)	Psat (dBm)	Psat (W)	P1dB (dBm)	Gain (dB)	Vd (VDC)	Id (A)	Outline
L2632-37	26.0 - 32.0	37	5	36	38	12	10	1023-1
L2640-23	26.0 - 40.0	23.5	0.2	22	25	12	1	9
L2640-27	26.0 - 40.0	27	0.5	26	30	12	2	9
L2640-28	26.0 - 40.0	28.5	0.7	27.5	30	12	2.5	9
L2640-31	26.0 - 40.0	31	1.2	30	35	12	5	1
L2640-33	26.0 - 40.0	33	2	32	35	12	5	922-2
L2630-33	26.5 - 30.5	33	2	32	35	12	3	4
L2630-35	26.5 - 30.5	35	3	34	35	12	5	9
L2630-37	26.5 - 30.5	37	5	36	38	12	10	1
L2632-29	26.5 - 32.0	29	0.8	28	35	12	1.5	4
L2632-31	26.5 - 32.0	31	1.2	30	35	12	2.5	9
L2632-33	26.5 - 32.0	33	2	32	38	12	4	9
L2732-29	27.0 - 32.0	29.5	0.9	28	30	12	1.5	9
L2732-31	27.0 - 32.0	31	1.2	30	30	12	2.5	9
L2732-33	27.0 - 32.0	33	2	32	35	12	4	9
L2732-35	27.0 - 32.0	35	3	34	35	12	7	1023-1
L3040-26	30.0 - 40.0	26	0.4	25	25	12	1.5	9
L3040-32	30.0 - 40.0	32	1.6	30	35	12	4	9
L3040-34	30.0 - 40.0	34	2.5	32	35	12	8	9
L3040-37	30.0 - 40.0	37	5	36	40	12	17	1023-1
L3236-38	32.0 - 36.0	38	6.3	37	40	12	17	1023-1
L3236-30	32.0 - 36.5	30	1	29	30	12	2.5	4
L3236-32	32.0 - 36.5	32	1.6	31	35	12	3.5	9
L3236-34	32.0 - 36.5	34	2.5	33	35	12	7	9
L3337-38	33.0 - 37.0	38	6.3	37	40	12	17	1023-1
L3640-29	36.0 - 40.0	29	0.8	28	30	12	1	4
L3640-31	36.0 - 40.0	31	1.2	30	30	12	4	9
L3640-33	36.0 - 40.0	33	2	32	35	12	5.5	9
L3640-37	36.0 - 40.0	37.5	5.6	36	40	12	17	1023-1

High Power Rack Mount Amplifiers & TWT Replacements



This family of amplifiers uses novel coaxial and waveguide combiners. These products are available in industry standard 19" enclosures. Typical applications are instrumentation and TWT replacement.

Features:

- Power up to 300 Watts
- Frequency up to 40 GHz
- TTL Controlled Pulser Option with 50ns rise/fall time

STANDARD OPTIONS:

- Gain
- Output Power
- Heatsink
- Fan
- Temperature compensation
- Gain and Phase Matching
- Psat control
- Hermetic Seal

Model Number	Frequency Range (GHz)	Psat (dBm)	Psat (W)	P1dB (dBm)	Pac (kW)	Height (in)
C008010-51	0.8 - 1.0	51	125	48	1	5.25
C135155-47	1.35 - 1.55	47.5	56	46	0.5	5.25
C020027-50	2.0 - 2.7	50	100	49	0.6	8.75
C020027-53	2.0 - 2.7	53	200	52	1.2	10.25
C021022-52	2.1 - 2.2	52.5	180	51.5	0.8	8.75
C024025-51	2.4 - 2.5	51.5	150	50.5	1	8.75
C031035-44	3.1 - 3.5	44	25	43	0.2	5.25
C031035-46	3.1 - 3.5	46.5	44	45.5	0.5	8.75
C031035-49	3.1 - 3.5	49	80	48	0.9	8.75
C033036-46	3.3 - 3.6	46	40	45	0.3	5.25
C033036-48	3.3 - 3.6	48.5	70	47.5	0.5	8.75
C033036-51	3.3 - 3.6	51	120	50	1	8.75
C037042-46	3.7 - 4.2	46.5	44	45.5	0.3	5.25
C037042-49	3.7 - 4.2	49	80	48	0.6	8.75
C037042-51	3.7 - 4.2	51.5	140	50.5	1.2	8.75
C044050-46	4.4 - 5.0	46	40	45	0.3	5.25
C044050-48	4.4 - 5.0	48.5	70	47.5	0.5	8.75
C044050-51	4.4 - 5.0	51	120	50	1	8.75
C053059-46	5.3 - 5.9	46	40	45	0.3	5.25
C053059-48	5.3 - 5.9	48.5	70	47.5	0.5	8.75
C053059-51	5.3 - 5.9	51	120	50	1	8.75
C053059-53	5.3 - 5.9	53	200	52	2	8.75
C059064-46	5.9 - 6.4	46	40	45	0.3	5.25
C059064-48	5.9 - 6.4	48.5	70	47.5	0.5	8.75

-Specifications are given at +25°C.
-The operating temperature range is from 0°C to +50°C.
-Hermetic seal option is available for operation below 0°C.
- All specifications are subject to change.

Model Number	Frequency Range (GHz)	Psat (dBm)	Psat (W)	P1dB (dBm)	Pac (kW)	Height (in)
C059064-51	5.9 - 6.4	51	120	50	1	8.75
C059064-53	5.9 - 6.4	53	200	52	2	10.25
C059064-55	5.9 - 6.4	55	300	52	3	10.25
C064072-46	6.4 - 7.2	46	40	45	0.3	5.25
C064072-48	6.4 - 7.2	48.5	70	47.5	0.5	8.75
C064072-51	6.4 - 7.2	51	120	50	1	8.75
C071077-47	7.1 - 7.7	47.5	56	46.5	0.5	8.75
C071077-50	7.1 - 7.7	50	100	49	0.9	8.75
C071077-52	7.1 - 7.7	52.5	170	51.5	1.8	10.25
C077085-46	7.7 - 8.5	46	40	45	0.3	5.25
C077085-48	7.7 - 8.5	48.5	70	47.5	0.5	8.75
C077085-51	7.7 - 8.5	51	120	50	1	8.75
C085096-43	8.5 - 9.6	43	20	42	0.3	5.25
C085096-45	8.5 - 9.6	45.5	35	44	0.5	5.25
C085096-48	8.5 - 9.6	48	60	47.5	1	8.75
C090105-43	9.0 - 10.5	43	20	42	0.3	5.25
C090105-45	9.0 - 10.5	45.5	35	44.5	0.4	5.25
C090105-47	9.0 - 10.5	47	50	46	0.6	8.75
C090105-50	9.0 - 10.5	50	100	49	1	8.75
C090105-53	9.0 - 10.5	53	200	52	1.5	8.75
C107117-45	10.7 - 11.7	45.5	35	44.5	0.5	5.25
C107117-48	10.7 - 11.7	48	60	47	0.9	8.75
C107117-50	10.7 - 11.7	50.5	110	49.5	2	10.25
C127132-45	12.7 - 13.2	45.5	35	44.5	0.5	5.25
C127132-48	12.7 - 13.2	48	60	47	0.9	8.75
C127132-50	12.7 - 13.2	50.5	110	49.5	2	10.25
C140145-45	14.0 - 14.5	45.5	35	44.5	0.5	5.25
C140145-48	14.0 - 14.5	48	60	47	0.9	8.75
C140145-50	14.0 - 14.5	50.5	110	49.5	2	10.25
C144155-49	14.4 - 15.5	49	80	48.5	1.2	8.75

Model Number	Frequency Range (GHz)	Psat (dBm)	Psat (W)	P1dB (dBm)	Pac (kW)	Height (in)
C005020-39	0.5 - 2.0	39	8	38	0.1	5.25
C0104-40	1.0 - 4.0	40	10	38.5	0.1	5.25
C0104-42	1.0 - 4.0	42	15	41	0.19	5.25
C0104-43	1.0 - 4.0	43	20	41.5	0.2	5.25
C008042-40	0.8 - 4.2	40	10	39	0.15	5.25
C008042-42	0.8 - 4.2	42	15	41	0.19	5.25
C008042-43	0.8 - 4.2	43	20	42	0.22	5.25
C0204-39	2.0 - 4.0	39	8	38.5	0.08	5.25
C0204-41	2.0 - 4.0	41	12.5	40	0.13	5.25
C0204-44	2.0 - 4.0	44	25	42.5	0.25	5.25
C0408-40	4.0 - 8.0	40	10	38.5	0.1	5.25
C0408-43	4.0 - 8.0	43	20	41.5	0.2	5.25
C0618-40	6.0 - 18.0	40	10	38.5	0.1	5.25
C0618-43	6.0 - 18.0	43	20	41.5	0.2	5.25
C0618-46	6.0 - 18.0	46	40	45	0.75	8.75
C0812-40	8.0 - 12.0	40	10	38.5	0.15	5.25
C0812-42	8.0 - 12.0	42	16	41.5	0.25	5.25
C0812-44	8.0 - 12.0	44	25	42.5	0.25	5.25
C0812-46	8.0 - 12.0	46	40	45	0.4	5.25
C0818-40	8.0 - 18.0	40	10	38.5	0.1	5.25
C0818-43	8.0 - 18.0	43	20	41.5	0.2	5.25
C0818-46	8.0 - 18.0	46	40	44.5	0.75	8.75
C1218-40	12.0 - 18.0	40	10	38.5	0.1	5.25
C1820-40	18.0 - 20.0	40	10	38.5	0.15	5.25
C1820-43	18.0 - 20.0	43	20	41.5	0.25	5.25
C1520-42	15.0 - 20.0	42	15.8	41	0.3	5.25
C2326-40	23.5 - 26.0	40	10	39	0.18	5.25
C2630-40	26.5 - 30.5	40	10	39	0.25	5.25
C3236-40	32.0 - 36.0	40	10	39	0.32	5.25
C3640-39	36.0 - 40.0	39	8	38	0.12	5.25

* Includes output isolator, TTL On/Off and detector circuit

-Specifications are given at +25°C.
-The operating temperature range is from 0°C to +50°C.
-All specifications are subject to change.

Microsemi's New GaN Amplifiers Series



Gallium Nitride (GaN) technology, coupled with Microsemi's chip and wire die level implementation maximize the high power added efficiency and high power density characteristics of GaN in small convenient packages. Multi-octave amplifiers and application specific narrow band amplifiers cover frequencies to 18 GHz. GaN amplifiers operate with voltages between +28VDC to +50VDC (design dependent). Catalog designs offer power levels up to 80 Watts; custom designs to 100 Watts are available.

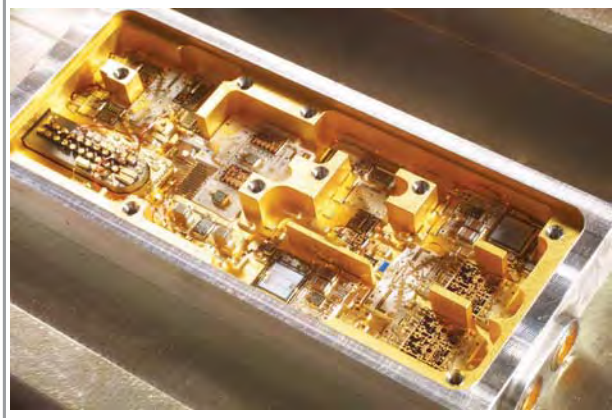
Model Number	Freq. Range (GHz)	Gain (dB min)	Psat (dBm min)	Psat (dBm) (min)	Psat (Watts) typ	Voltage (V) Current(A)	PAE	Outline	ECCN
AML056P4013	0.5 - 6.0	40	35	36	4	28V/2A	10%	002-1022	EAR99
AML056P4014	0.5 - 6.0	40	37	38	6	48V/2.0A	20%	002-1022	EAR99
AML056P4511	0.5 - 6.0	45	40	41	10	40V/1.5A	25%	002-0997	EAR99
AML056P4512	0.5 - 6.0	45	43	44	25	50V/1.5A	23%	002-1022	EAR99
AML13P5013	1.0 - 3.0	50	46	47	50	28V/4.8A	25%	002-1022	EAR99
AML26P4011	2.0 - 6.0	40	41	42	16	28V/1.5A	35%	002-1022	EAR99
AML26P4012	2.0 - 6.0	45	43	44	25	28V/3.0A	30%	002-1022	EAR99
AML26P4013	2.0 - 6.0	50	45.5	46.5	44	28V/6.0A	25%	002-1022	EAR99
AML59P4512	5.5 - 9.0	45	44	44.5	28	28V/4.0A	25%	002-1023	3A001.b.4.b
AML59P4513	5.5 - 9.0	45	46	48	50	28V/8.0A	20%	002-1023	3A001.b.4.b
AML910P4213	9.9 - 10.7	43	37	38	6	32V/0.5A	30%	002-0992	EAR99
AML910P4214	9.9 - 10.7	43	39	40	10	32V/0.8A	30%	002-1006	EAR99
AML910P4215	9.9 - 10.7	46	42	43	20	32V/1.3A	25%	002-0923	EAR99
AML910P4216	9.9 - 10.7	46	42	43	20	32V/1.3A	30%	002-0992	3A001.b.4.b
AML811P5011	7.8 - 11.0	45	43	44	25	28V/2.8A	30%	002-1023	3A001.b.4.b
AML811P5012	7.8 - 11.0	50	45.5	46.5	44	28V/5.5A	23%	002-1023	3A001.b.4.b
AML811P5013	7.8 - 11.0	50	48	49	80	28V/11.5A	25%	002-1042	3A001.b.4.b
AML612P4501	6.0 - 12.0	45	41	43	20	22V/3A	15%	002-1023	3A001.b.4.b
AML1314P4511	13.75 - 14.50	45	42	43	20	30V/2.3A	20%	002-1078	ITAR
AML1314P4512	13.75 - 14.50	45	44.5	45	32	30V/4.6A	19%	002-1078	ITAR
AML1416P4511	14.0 - 16.0	45	41.5	42	16	35V/3.2A	20%	002-1023	ITAR
AML1416P4512	14.0 - 16.0	45	44	44.5	27	35V/6.2A	18%	002-1023	ITAR
AML618P4014	6.0 - 18.0	40	39	40	10	32V/2.8A	12%	002-0813	ITAR
AML618P4015	6.0 - 18.0	40	42	43	20	32V/4.9A	12%	002-1023	ITAR
AML218P4012	2.0 - 18.0	35	37	38	6	32V/1.5A	13%	002-0813	ITAR
AML218P4011	2.0 - 18.0	40	39	40	10	32V/2.8A	12%	002-0813	ITAR
AML218P4013	2.0 - 18.0	38	42	43	20	32V/4.9A	12%	002-1022	ITAR

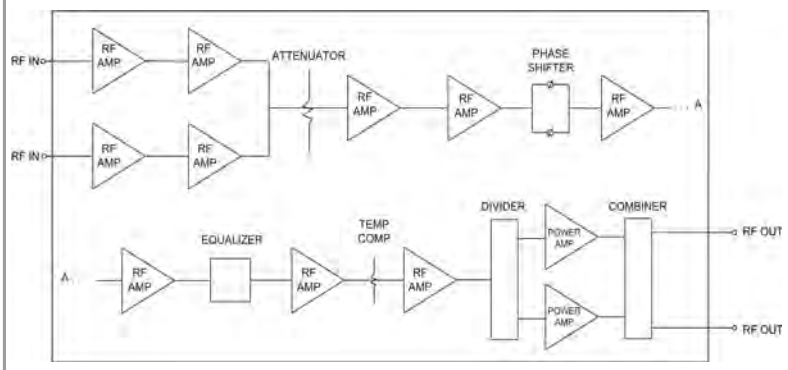
Microsemi has strong capabilities in Integrated Microwave Assemblies (IMA's) over 1MHz to 40 GHz. These products are designed and manufactured for custom requirements of defense and commercial customers with applications in avionics, electronic warfare systems, communication systems, radars, jamming systems, industrial and medical equipment.

Microsemi's Integrated Microwave Assemblies implement a mix of technologies, such as Thin Film MIC, MMIC, MMCC (patented) and Discrete. These technologies are utilized to develop the most advantageous solution; maximizing technical performance and minimizing size. These designs include complex functionalities with amplifiers, detectors, switches, noise source, phase shifters, mixers, VCO's, digital and analog attenuators, filters, equalizers, temperature compensation circuits, limiters etc.

Please contact Microsemi for your super-component/Integrated Microwave Assembly (IMA) requirements.

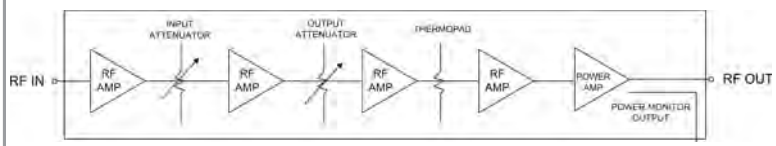
Dual Input Dual Output High Power Assembly



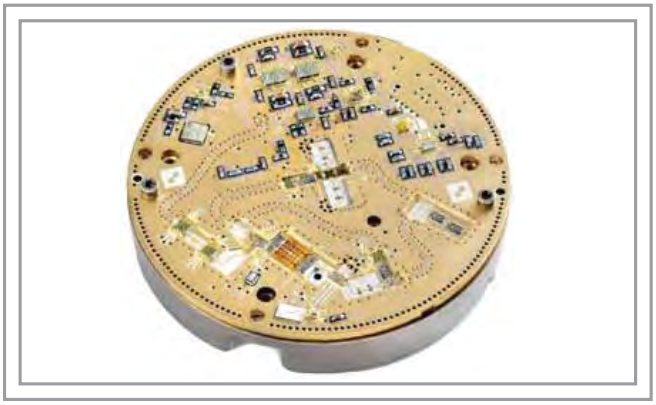


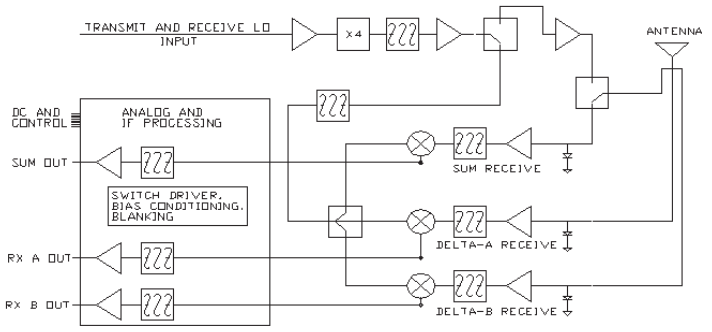
S Band High Power Low Phase Noise Assembly





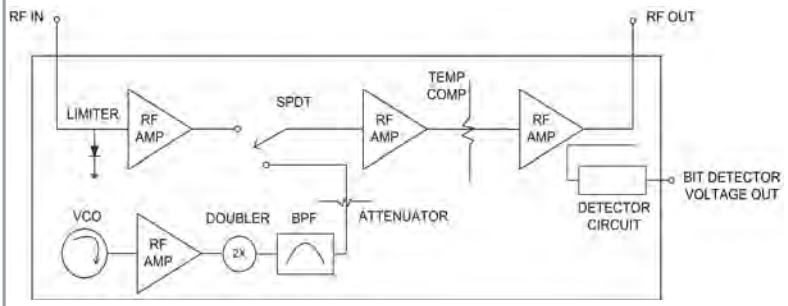
Ka Band Mono-Pulse Radar Transceiver, 2W Transmit



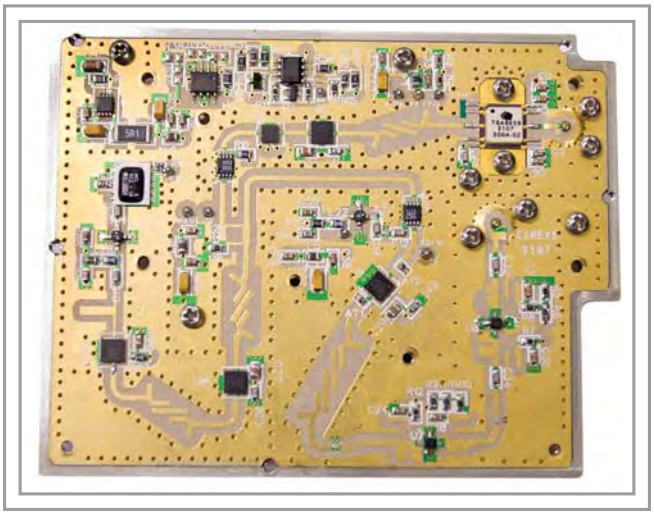


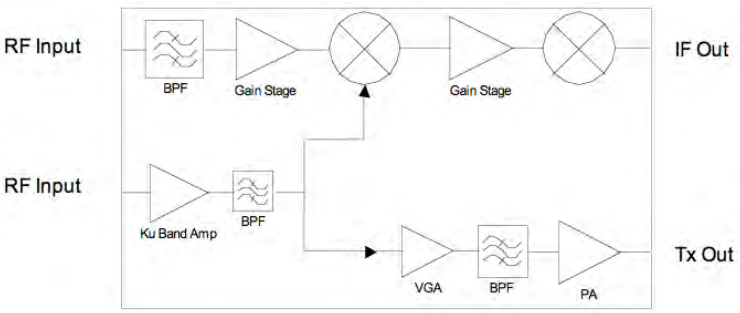
EW Limiter Amplifier Mixer Assembly



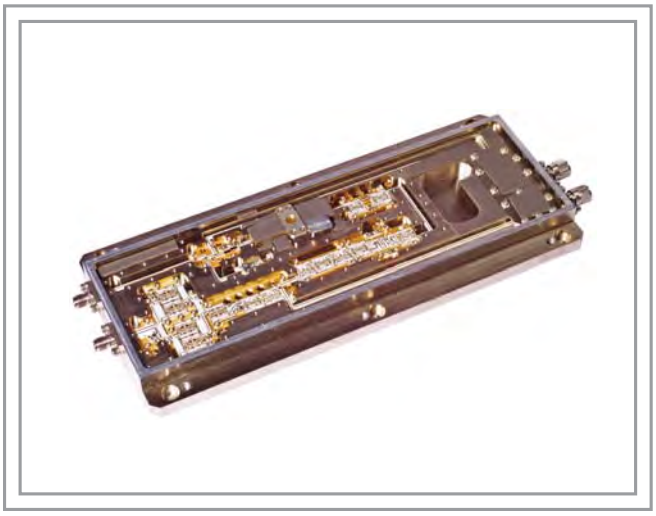


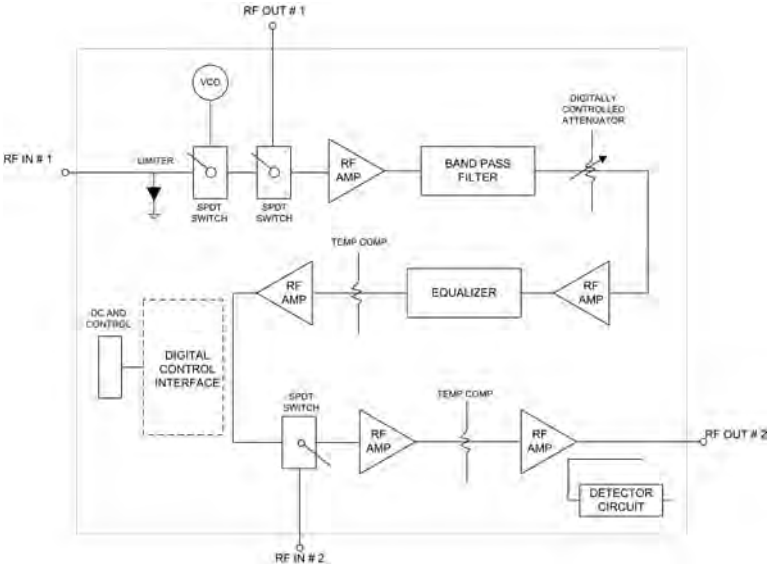
Ku Band Up/Down Converter



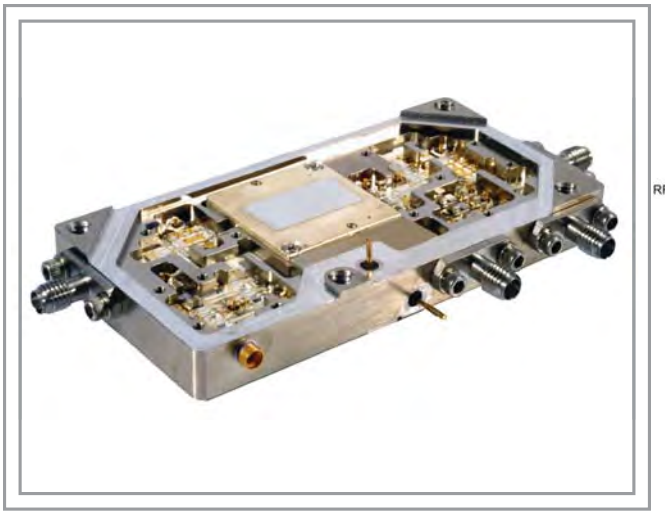


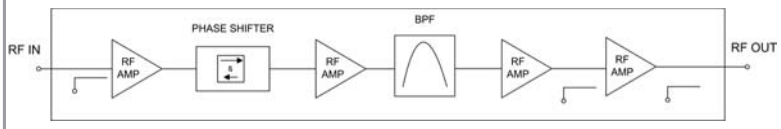
Broadband Microwave Repeater



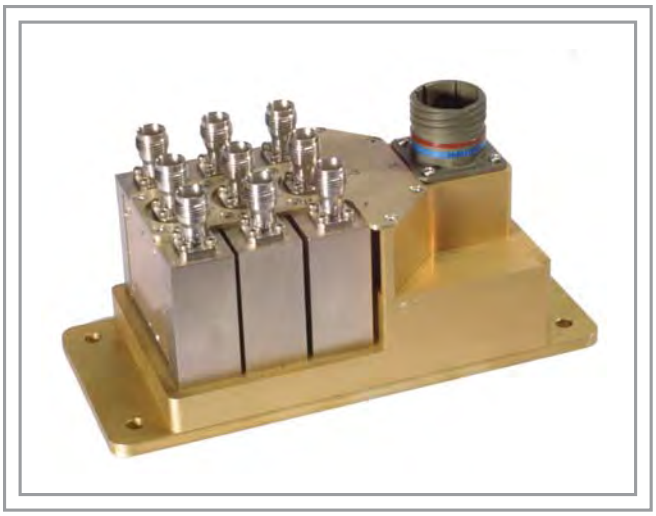


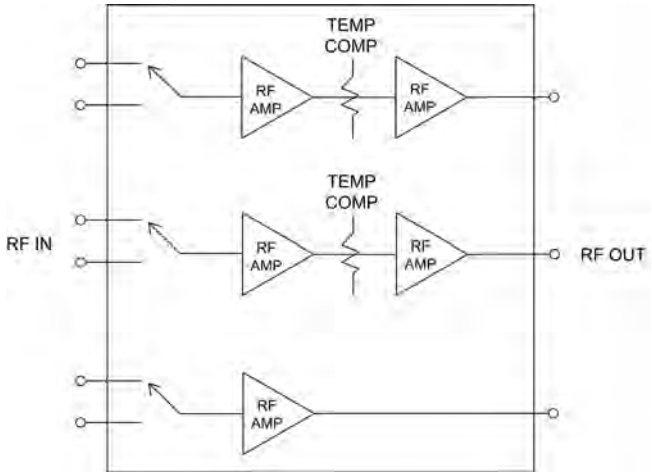
IMA for Low Phase Noise Oscillator



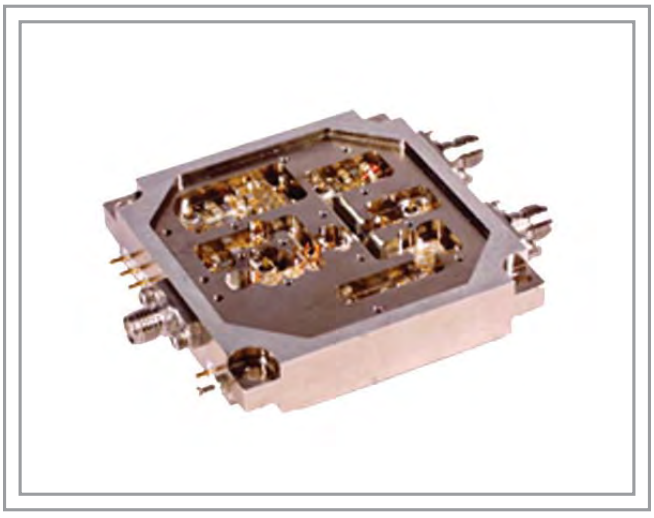


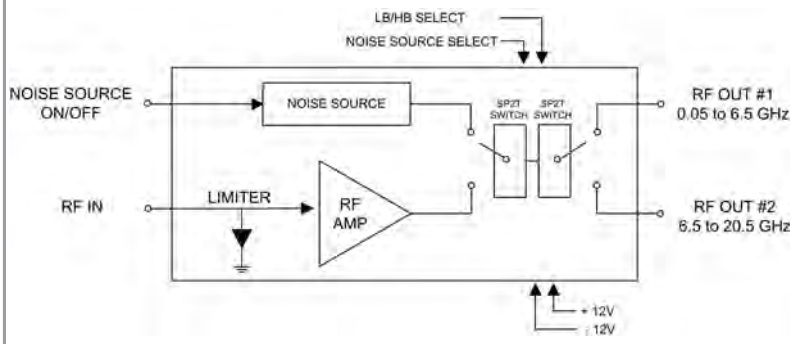
EW Switched Amplifier Assembly



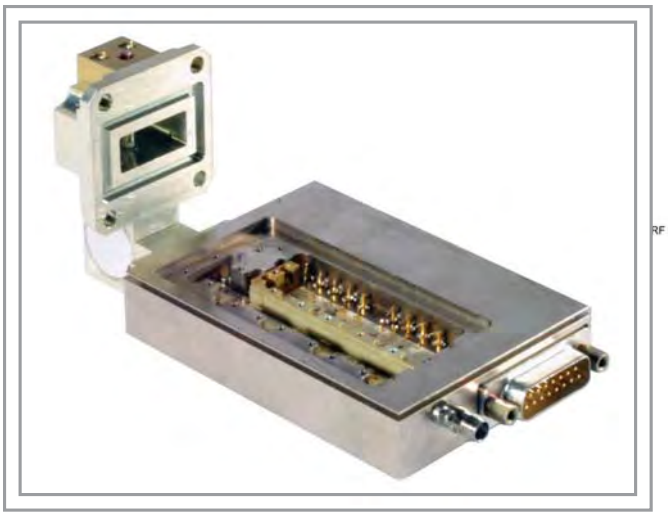


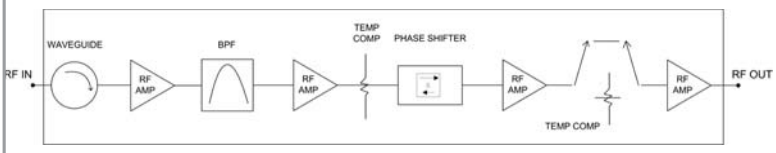
Broadband Receiver Front End with Input Noise Source



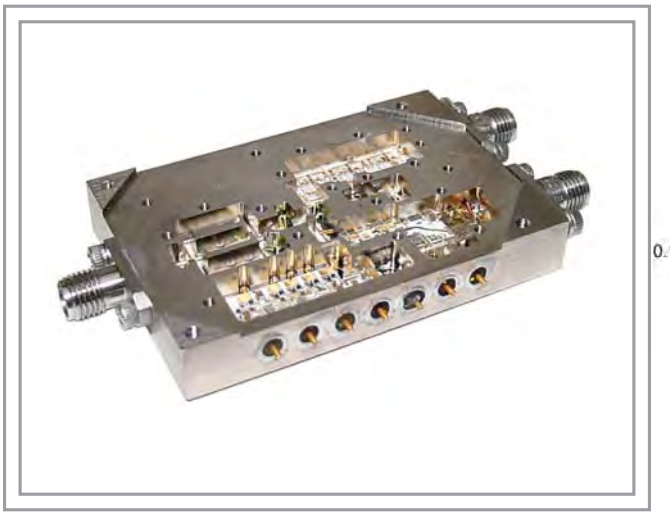


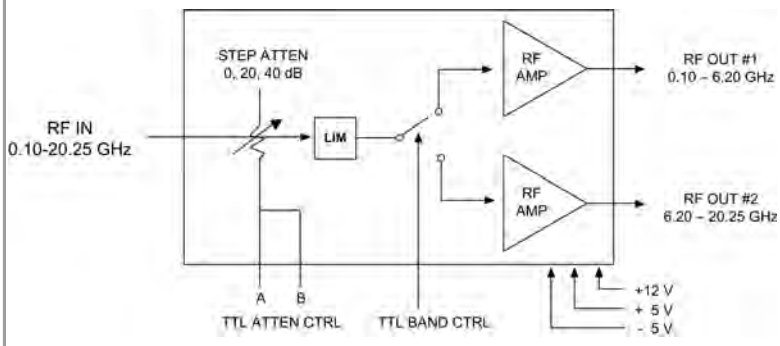
EW Waveguide Amplifier Assembly



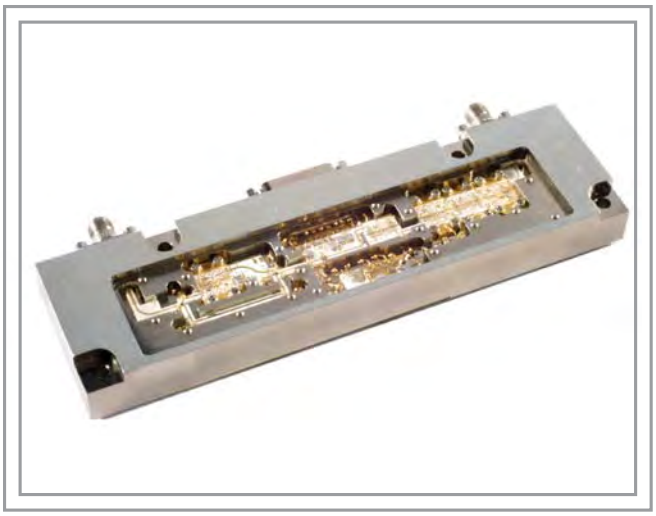


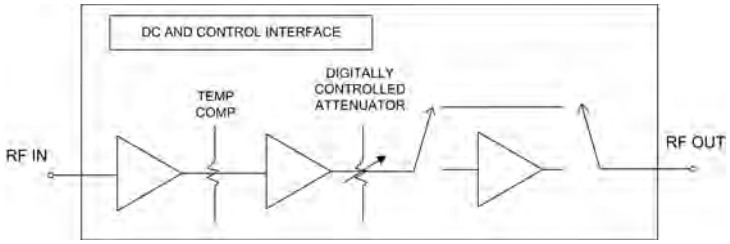
Broadband Receiver Front End



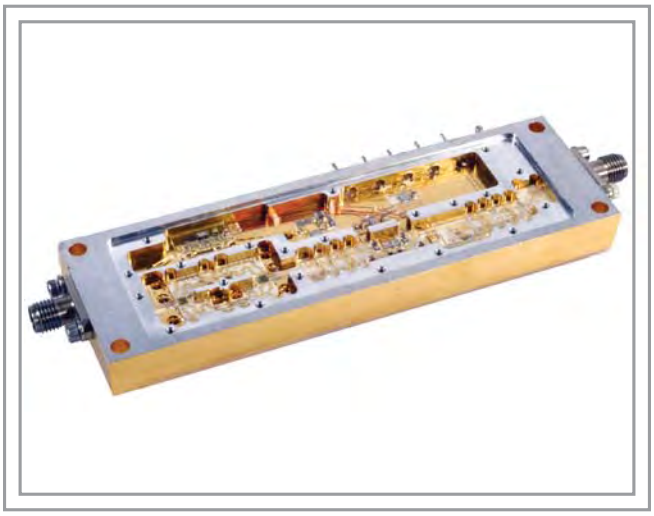


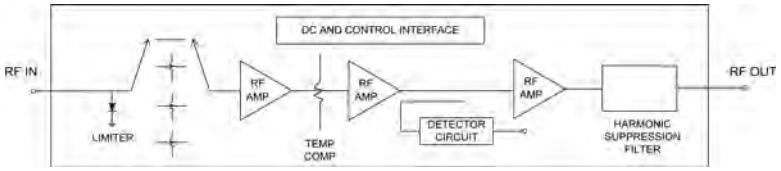
IF Variable Gain Amplifier



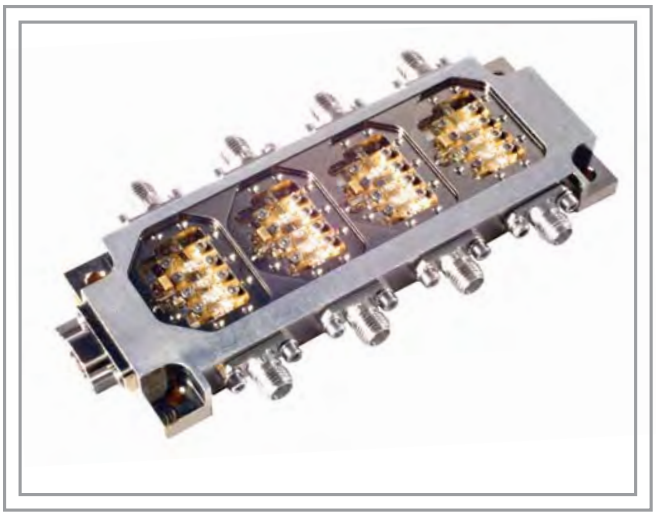


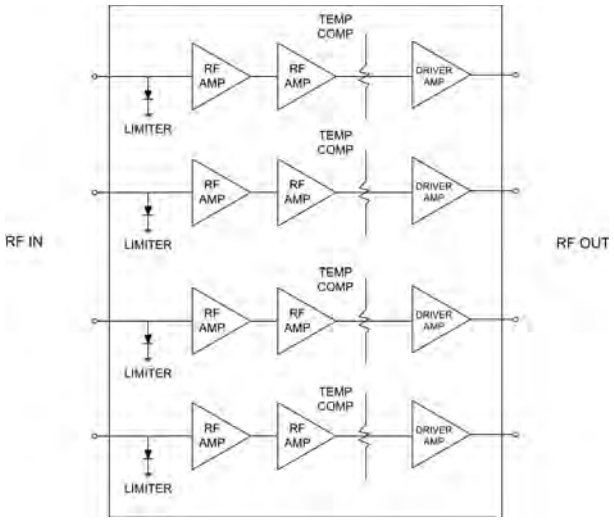
X Band Switched Amplifier with Excellent Multi-State Tracking



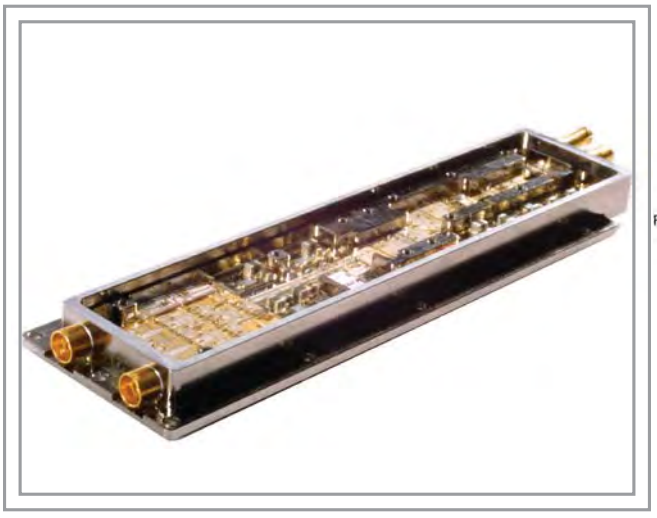


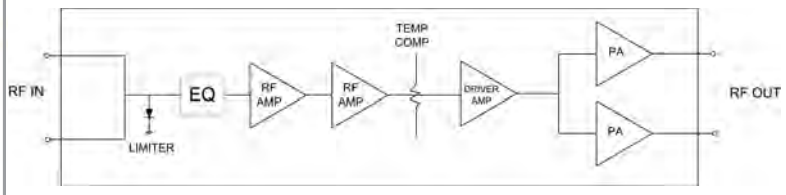
EW 4 Channel Amplifier with Front End Limiter



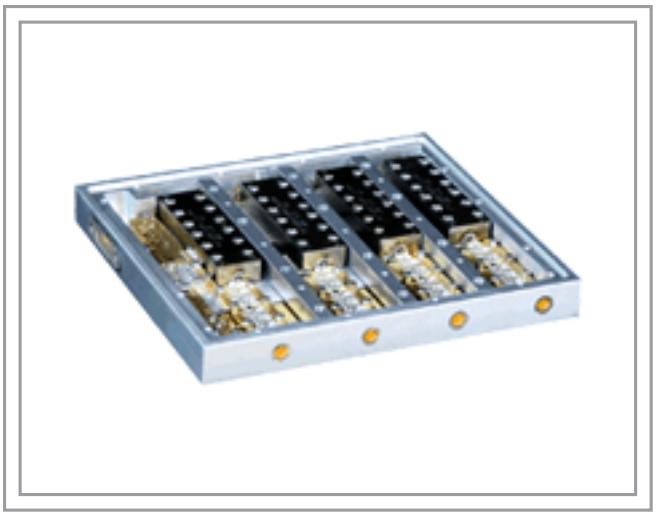


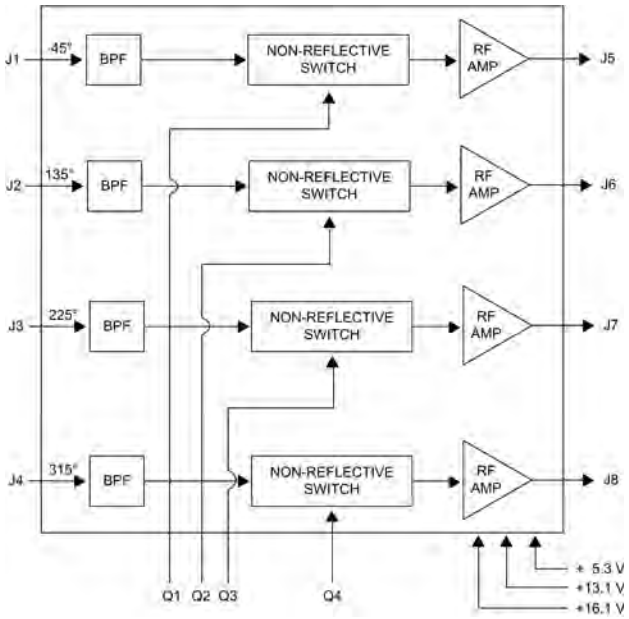
Dual Output EW High Power Amplifier Assembly



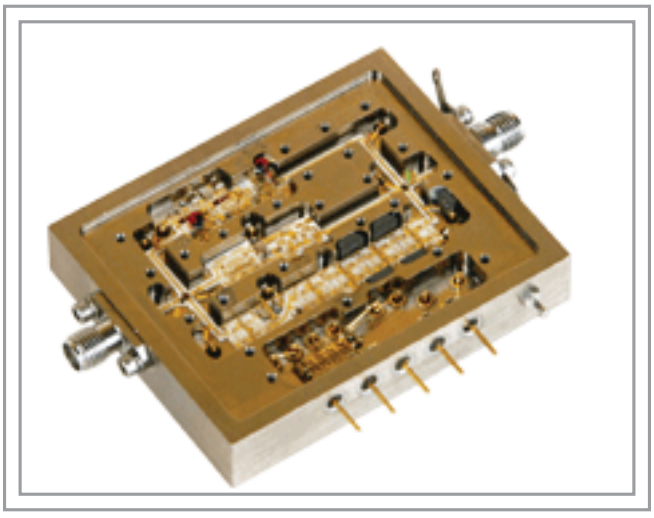


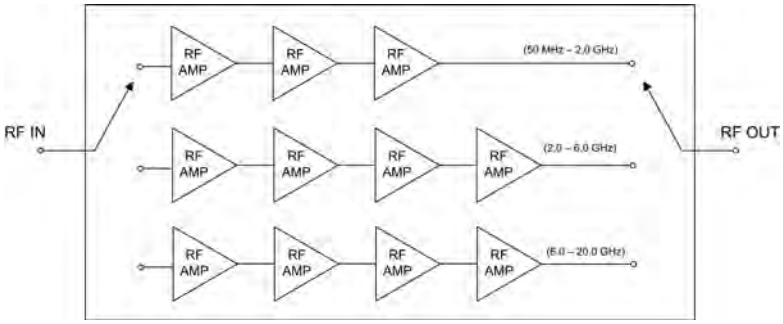
Quad Amp Receiver Front End



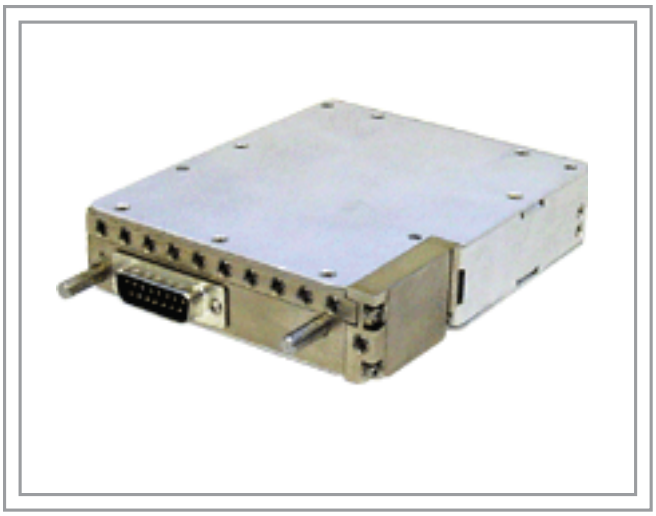


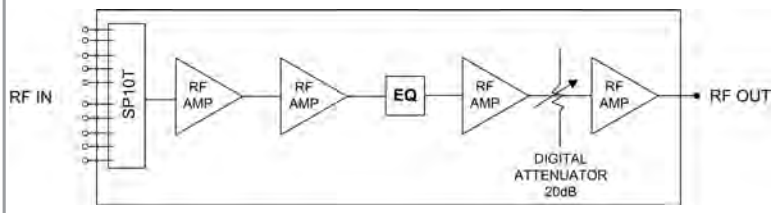
Ultra Wideband Output Synthesizer Module



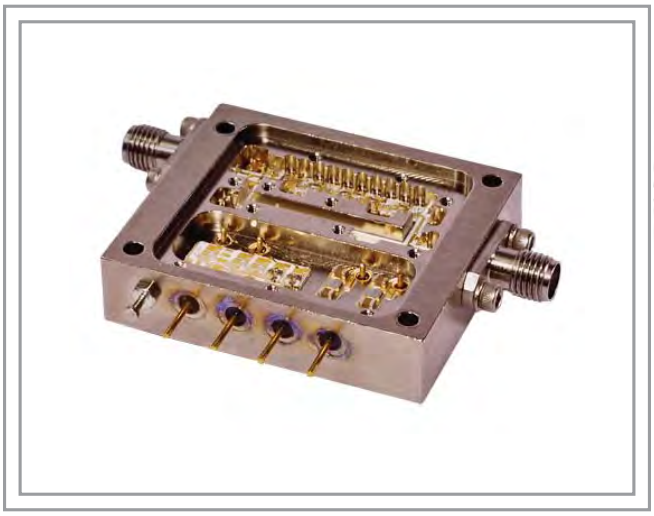


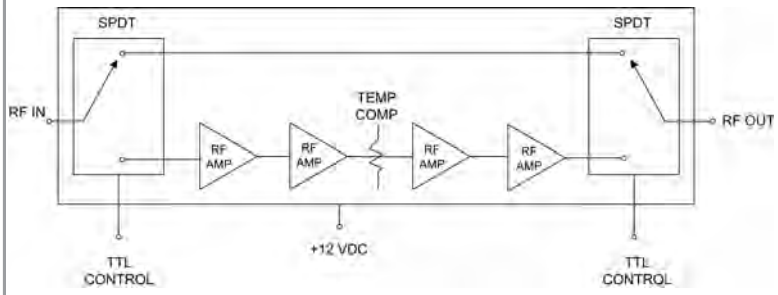
10 Input/1 Output Amplifier Attenuator Assembly



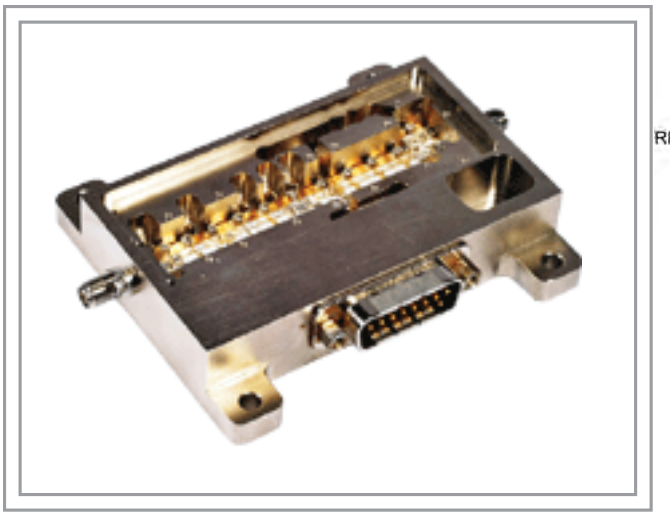


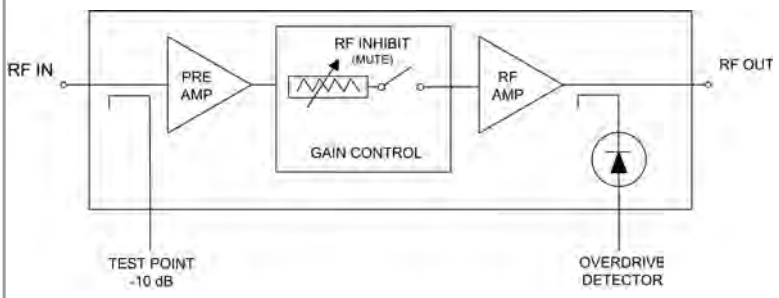
Broadband Switched Amplifiers





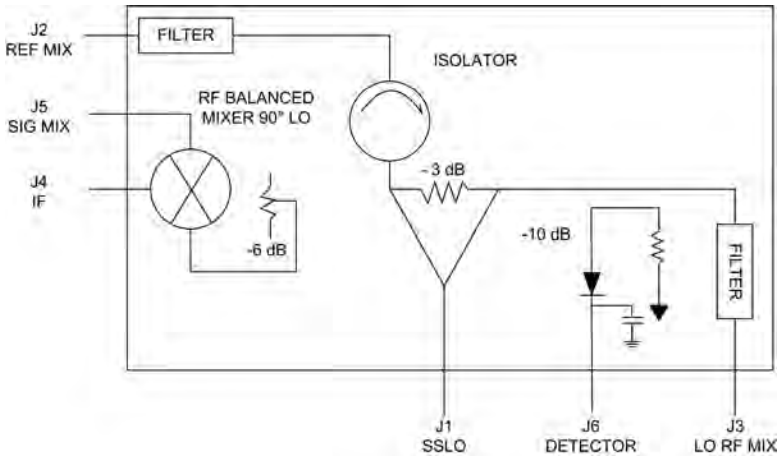
Tri-Band TWT Exciter Driver





Mixer Assembly





Standard Features

- Internal DC Regulator/Conditioning
- Reverse Voltage Protection
- Field Replaceable Connectors



Available Options

- Full Mil Temperature Range
- Hermeticity
- Temperature Gain Compensation
- Gain and Phase Match
- Optional Connector Types
- Heatsink with Integral Fan(s)
- Psat Control
- Frequency, Gain, P1dB Optimization
- Application Specific Frequency and Gain Optimization
- Package Types and Connector Types
- Extended Temperature Range

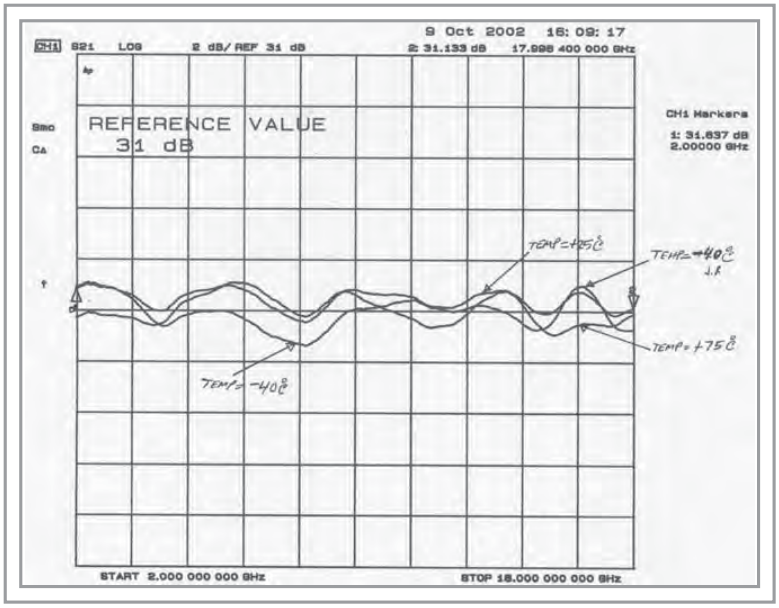
Additional Functions Available

- RF Input Power Protection
- Harmonic Suppression
- BITE Detection
- Switched Gain Select
- Switched Frequency Band Select
- Mute Switching
- Variable Attenuators (Analog/Digital)
- Integrated Phase Shifter
- Gain Equalization
- TTL Controlled Pulser Option



Temperature Compensation

Compensates for device gain change over temperature.



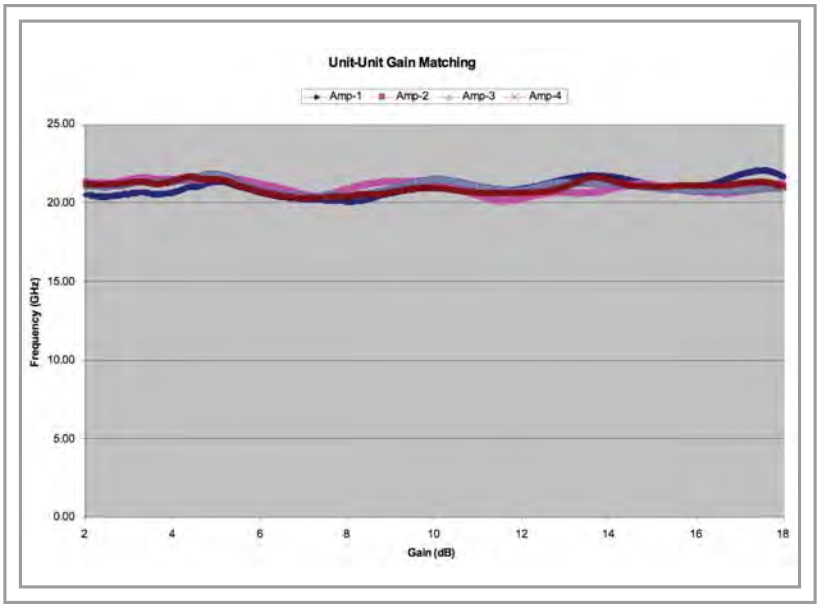
Any active device will exhibit gain variation over operating temperature. GaAs FET's and HEMT's are no exception. A typical single gain stage variation is on the order of 0.01dB/°C, therefore, the gain of a narrowband amplifier with 5 stages, may vary as much as 6.5 dB from -40°C to +85°C, which is a standard military temperature range. Such a large gain variation may adversely impact system performance.

Microsemi employs temperature compensation circuits to bring the gain variation down to a minimum and meet customer specifications. Narrowband temperature compensated amplifiers can have their gain variation reduced by as much as 70%, by implementing negative temperature coefficient attenuators, or in case of multi-octave band amplifiers via proprietary designs of fixed resistors in conjunction with PIN diodes. Using this approach, the depicted gain variation (see graph) over 2 to 18 GHz amounts to less than ± 1.5 dB from -40°C to +75°C for a 31 dB gain amplifier.

Phase & Gain Matching

Phase & Gain Matching of two or more amplifiers.

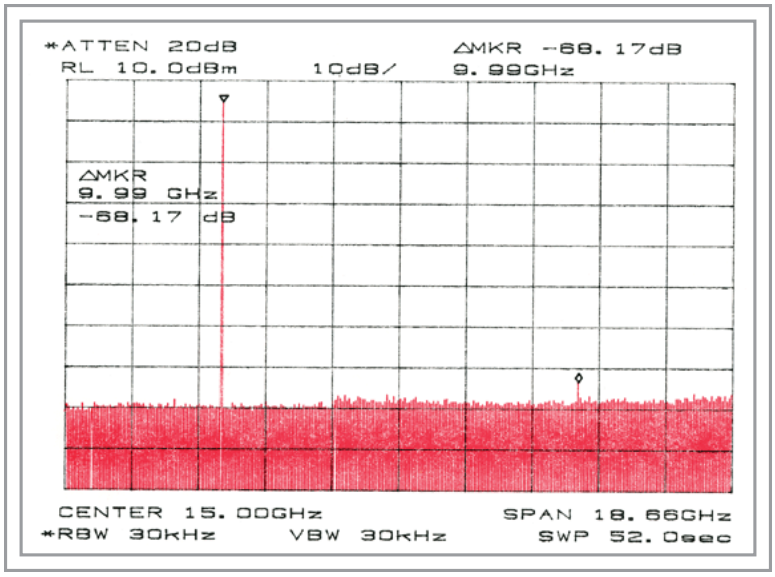
Phased arrays and direction finding systems require stringent unit to unit gain and insertion phase tracking. Only by implementing these type of amplifiers, a highly directional beam can be shaped. Microsemi offers narrowband and broadband amplifiers which can meet these requirements, due to designs with built-in flexibility of varying the gain and phase from unit to unit in a set window, and by using the thin film structures inherent to provide unit to unit comparable results. Gain and phase match amplifiers with ± 0.2 dB and ± 3° are achievable over 20% bandwidth at X-band, while better than ± 1 dB and ± 10° gain and phase match are offered for multi-octave amplifiers.



The above graphs depict actual data from pre-tuned production amplifiers. Significantly improved performance may be obtained after tuning. Please inquire with your specific requirement.

Harmonic Suppression

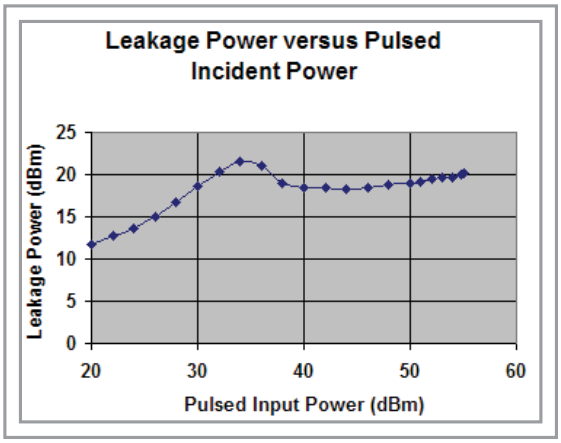
Suppressing harmonics with an integrated filter.



Harmonic suppression for narrowband amplifiers is necessary for reasons related to distortion of the fundamental signal. Microsemi offers amplifiers with integrated harmonic suppression, which achieves extremely low harmonic levels compared to the specified fundamental at a given output power level. This is accomplished by incorporating high Q lumped or distributed filters, either of low-pass or band-pass type, offering steep rejection of any unwanted harmonics. In-band harmonic suppression may also be enhanced by manipulation of reactive matching within balance amplifiers. Any design of a harmonic suppressed amplifier maintains good characteristics over the operating band, such as VSWR, phase shift, or passband ripple. The X-Band plot to the right, indicates second harmonic levels of –70dBc while operating at 1dB compression point of +25dBm.

RF Input Power Protection

Protects against high levels of RF input power.



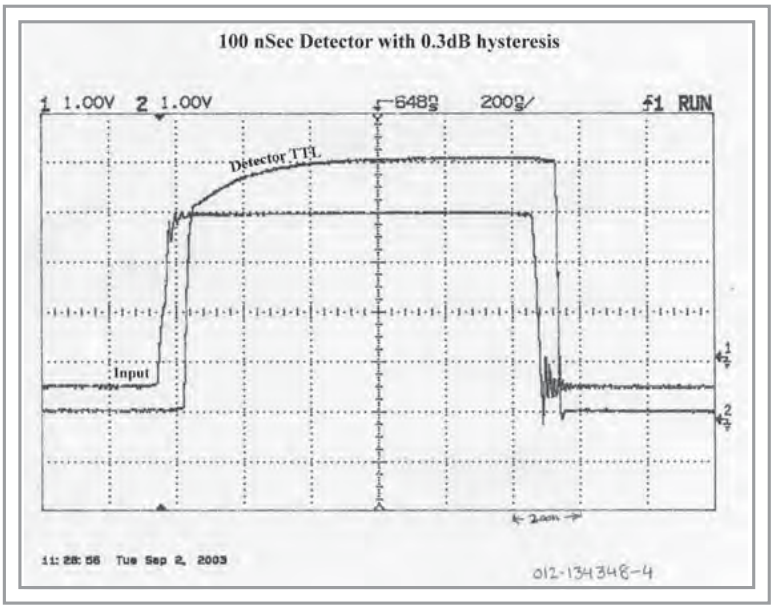
Microsemi's integrated limiters provide self-activated, minimal insertion loss, protection to high incoming power levels in today's EW and Radar receiver applications. The limiter architecture is based on PIN diode technology, and depending on the incident power level, the circuit may be of passive or semi-active nature, including multiple PIN diodes or a combination of PIN and Schottky diodes. Limiter features include high power handling of CW and pulsed RF signals, low insertion loss and high attenuation levels. Measured insertion loss on Microsemi limiters is as low as 0.8 dB at 18 GHz and at the same time providing a flat leakage of +16 dBm for an incident power of 5W CW. Other Microsemilimiters offers protection for a 300 W, 1 us pulse, width and 0.1% duty cycle, with a flat output leakage of +19dBm. All Catalog Amplifiers are available with Integrated Limiters. Please inquire. Power handling and Insertion Loss for Microsemi Limiter modules is shown to the right.

Frequency GHz	Insertion Loss dB	CW Power dBm (Watts)
2.0 - 8.0	0.6	30 (1 Watt)
2.0 - 8.0	1.1	33 (2 Watts)
2.0 - 18.0	1	30 (1 Watt)
2.0 - 20.0	1.2	37 (5 Watts)

BITE Detection

A logical output level that signals the presence of RF energy.

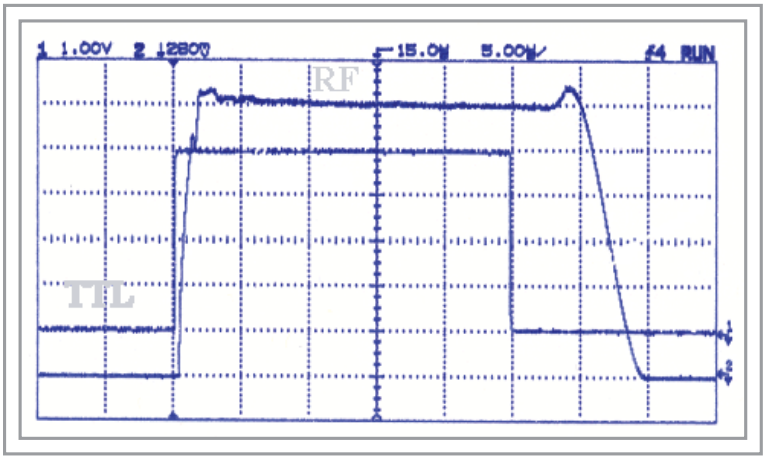
The detectors offered are an integral part of BITE detection amplifiers. Most circuits employ fast, zero or self biased Schottky diodes, in a two-diode detection circuit for excellent output variation with RF power levels. The BITE 'trip point' is typically within 2dB from a given nominal power level. Narrower ranges of 'trip points' may be produced. Special attention is given to the power detectors used in transmitting systems, where intelligent RF power management is crucial. Precise and efficient threshold detector operation over wide powers and temperature ranges are a common requirement for such systems. Other integrated detectors include matched tunnel diodes, offering low video resistance, and excellent temperature stability.



Mute Switching

The ability to turn the amplifier gain chain "Off."

The mute switching function is integrated within the RF chain and responds to an RF blanking command. Blanking is often used during calibration routines or to protect other devices during periods of possible overdrive. Typical response to the blanking command is less than 2 microseconds and results in a RF On/Off gain isolation greater than 50dB. The switch must be strategically placed in order to ensure a minimum of mute (blanking) switch distortion in the "On" condition; and in the "Off" condition, to maximize "On/Off" isolation. A typical switch response to a TTL command is shown in the graph above. It offers 9 Micro seconds response time.



Heatsink with Integral Fan(s)

Microsemi offers several heatsink options to solve the cooling issues that accompany the use of a power amplifier. For our smaller modules, high density bonded fin heatsinks are available in different sizes to meet most needs. All heatsink options include cooling fans matched to the heat sink, mounted, wired, and ready for use. When selecting an amplifier, inquire with Microsemi's Applications Engineering for details of the cooling options available.

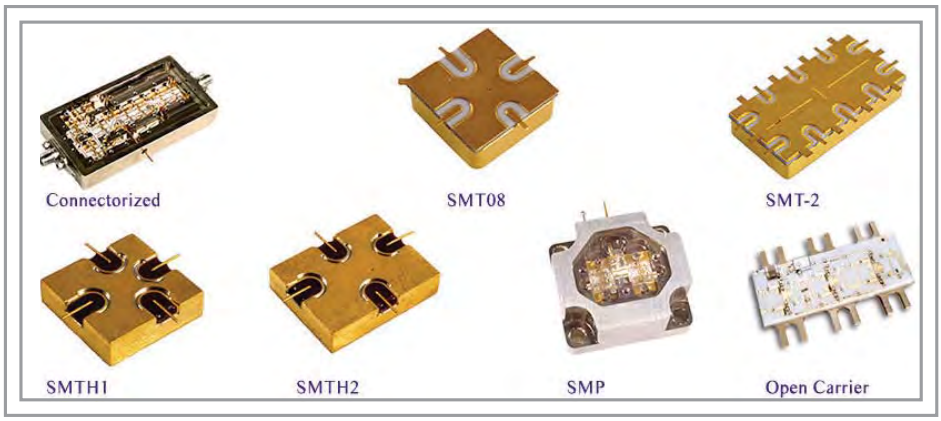
Psat Control

This option provides a voltage controlled reduction of saturated power (from the maximum specified power output) of up to 15 dB. Thus, for a constant input power, the output power can be reduced using this voltage control. Many of the amplifiers shown in the products section are available with this option - consult AML's Applications Engineering for more details.

Frequency, Gain and P1dB Optimization

Microsemi offers a broad range of narrow, octave and multi-octave band catalog amplifiers with gain and output power options. We understand that catalog amplifiers do not always meet unique system requirements. Customers can request modifications to catalog amplifiers. For instance, customers can specify a gain window and increase IP3 to meet receiver sensitivity or extend frequency coverage to cover guard bands etc. Catalog amplifiers can be optimized to your specific requirements.

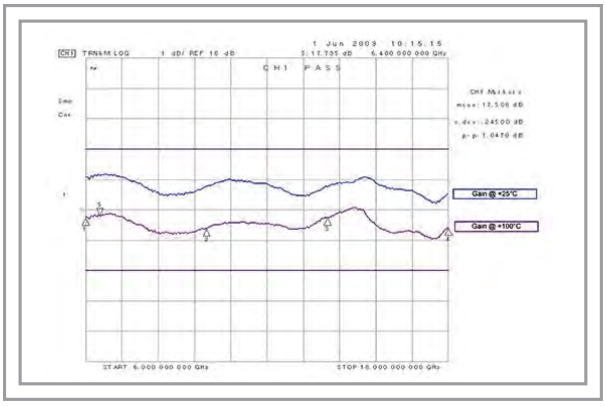
Package Types and Connector Types



Catalog amplifiers are supplied in housings with field removable SMA (f) connectors up to 23 GHz and K(f) connectors to 40 GHz. Microsemi also offers high performance surface mount amplifiers up to 18 GHz (http://www.amlj.com/surfaceMount.html). Many catalog connectorized amplifiers can be supplied in alternate configurations such as surface mount/SMP housings, as open carrier modules or with different connector types. Frequently amplifiers are supplied in custom packages as form fit and function replacement for legacy parts, or to replace a product from other suppliers.

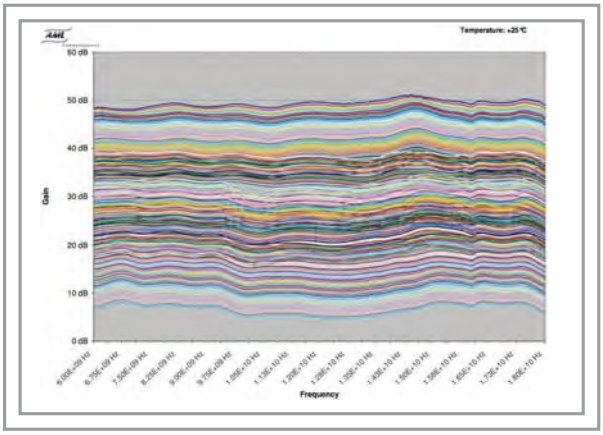
Extended Temperature Range

Catalog amplifiers are supplied in epoxy sealed housings and rated for -20º to +70ºC operation. All catalog amplifiers are available with an extended temperature range of -54º to +85ºC in hermetic sealed housings. Materials are chosen to ensure thermal expansion compatibility and thermal conductivity for high reliability. Design and construction maintain FET channel (junction) temperatures below the maximum allowable limits for continuous operation. Microsemi has also supplied amplifiers and integrated microwave assemblies operating in extreme conditions with baseplate temperatures up to +110ºC.



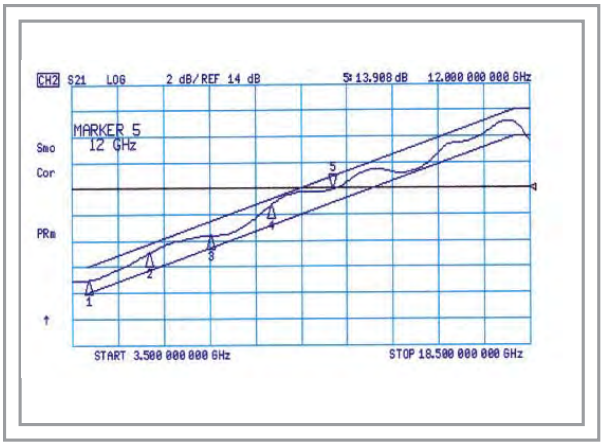
Variable Gain

Amplifiers integrated into a system, like front-end receivers present stability concerns. Too much gain may cause instabilities or signal distortion, while in some cases, like in a TWT transmitter driven by an MIC amplifier, too much fixed gain may overdrive the tube, placing it in a nonlinear region of operation. In this and other cases, it may be beneficial to implement an integrated analog or digital controlled attenuator into an amplifier. Microsemi offers a variety of amplifiers with gain control, for narrowband amplifiers as well as for multi-octave amplifiers. Variations from 4 to 5 dB, to over 20 dB can be attained without any degradation in VSWR and overall gain flatness, by employing matched variable attenuator modules. The graph shows a gain variation range of over 8 dB with a control voltage range of 0 to 7 V and across a 5-15 GHz frequency band.

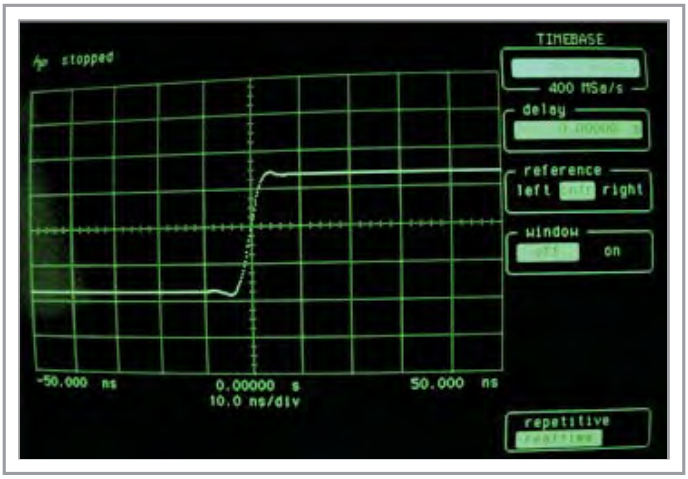


Gain Equalization

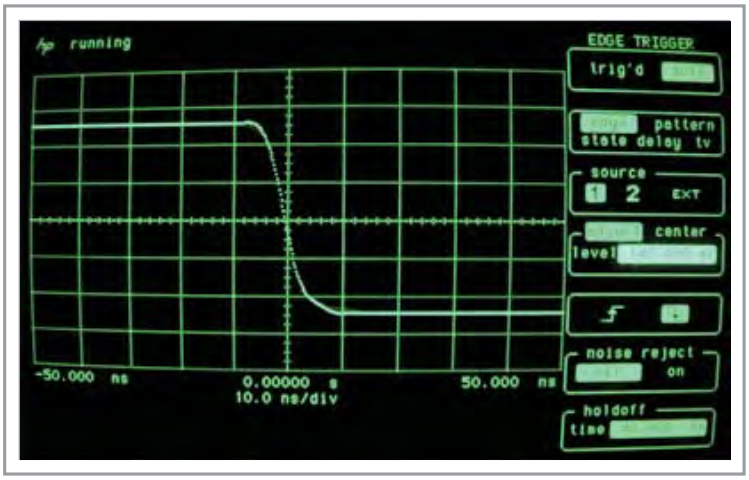
Microsemi's integrated gain equalizers compensate for monotonic system gain variation. Equalizers are lossy passive circuits of negative slope or of parabolic type attenuation. A positive slope equalizer provides a specific loss at the low frequency end and a minimal loss at the high end. Most equalizing circuits are of transmission line type using low-Q resonators. Fixed slope equalization can vary from 3 dB/octave to more than 12 dB/octave, although other slope gradients can also be achieved. The parabolic type presents low attenuation at the ends of the amplifier frequency bandwidth, and large attenuation in the middle of the band, or a portion of the band. More equalizers are designed to cover multi-octaves, for example 2 to 18 GHz.



TTL Controlled Pulser Option



Typical rise time using the pulser option



Typical fall time using the pulser option

Most of Microsemi's power product amplifiers are available with our state of the art pulser circuitry. Units with the pulser option are equipped with additional internal circuitry (i.e. the pulsers) controlled by an external TTL signal. When a TTL control signal is applied, the internal pulsers switch the bias of all the RF devices off reducing almost all of the current. The pulser circuits were developed primarily for radar customers who need to turn the amplifier on and off VERY fast. Rise and fall times are 30 to 50 nanoseconds typical depending on the power level of the amplifier. Pulser turns off all bias to the power devices.

In many radar applications, an external modulator is used to switch the RF input to the amplifier on and off. This modulator is also used to shape the radar pulse, particularly the rise and fall time, to control the transmitted pulse spectrum. While this modulator turns off the RF, the amplifier is still on and amplifies noise across the amplifier's entire bandwidth. This Noise Power Output (NPO) results in a noise "pedestal," and if some of this noise leaks into the receiver it degrades the receiver sensitivity. Turning off the power devices is thus required to eliminate the NPO that occurs if only the RF is shut off (but not the power devices) between transmitted pulses. The pulser option prevents NPO leakage into the receiver when the transmitter should be off. The pulser circuit is typically used as follows: At t=t0, the radar control system commands the pulser circuit to turn the amplifier on. At t=t1, the radar controller turns on the modulator. The modulator turns off at t=t2, ending the RF pulse. At t=t3, the pulser circuit is commanded to turn off. For this application t3>t2>t1>t0. Thus, the amplifier is turned off between pulses, and generates no NPO.

The pulser option is also useful for battery operated man-portable communication or radar systems to conserve battery life and reduce heat.

Pulsar Performance Characteristics:
Input Signal: TTL Level, 0 to +5 V

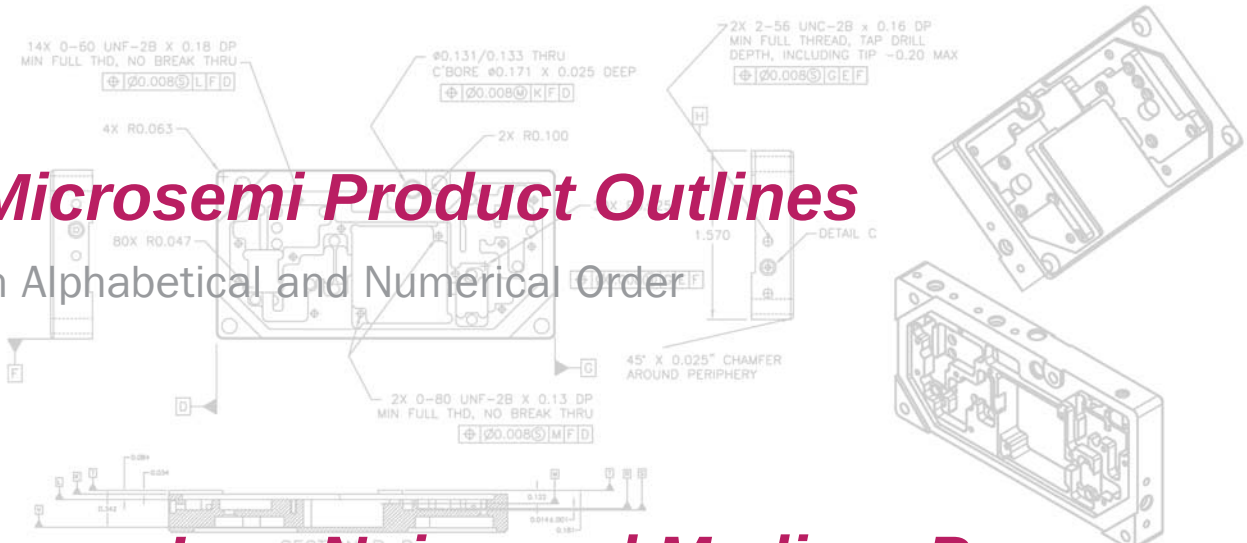
Mode: Active High or Active Low (please specify at time of order)

*If you choose the pulser to be Active High, the amplifier is "on" when the TTL input signal is "high" and "off" when the TTL input is low and vice versa.

Duty Cycle: up to 100%

Rise and Fall Time: 30 to 50 ns typ, 50 to 75 ns max

Turn on and off delay: 100 to 150 ns



Microsemi Product Outlines

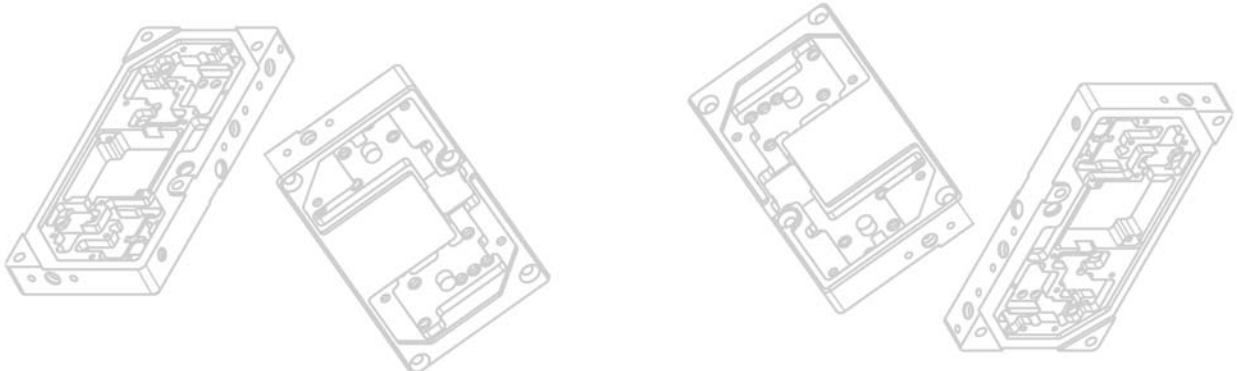
In Alphabetical and Numerical Order

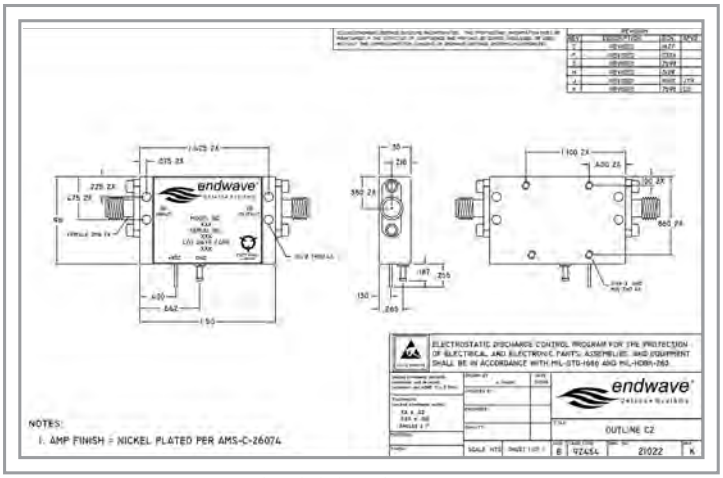
- ***Low Noise and Medium Power Amplifier Outlines***

  Pages 120-136

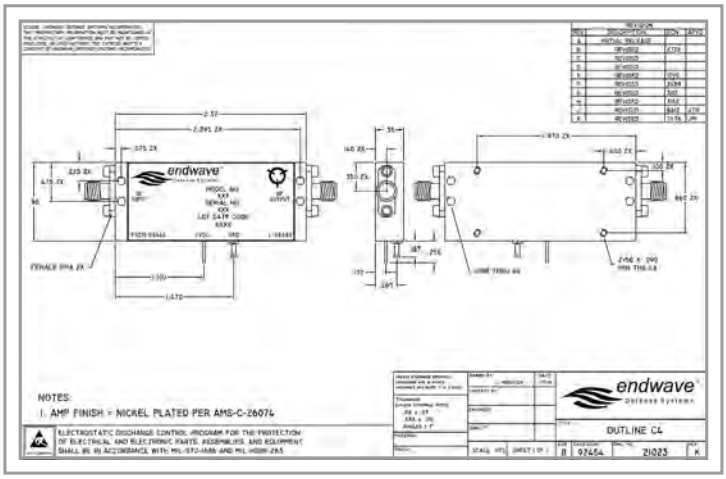
- ***High Power Amplifier Outlines***

  Pages 137-142

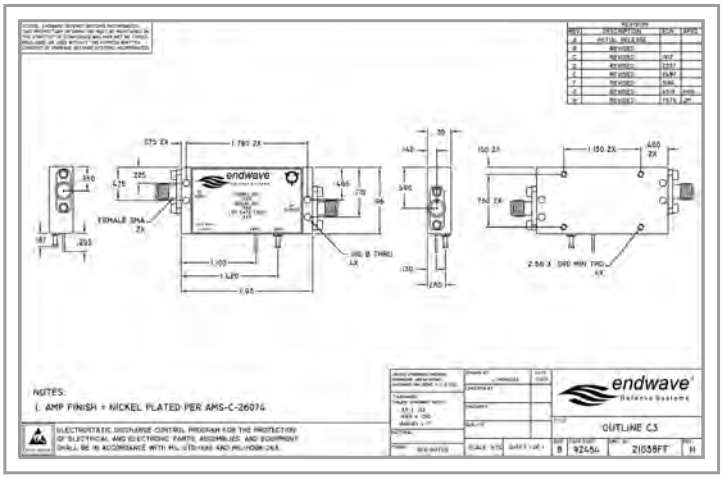




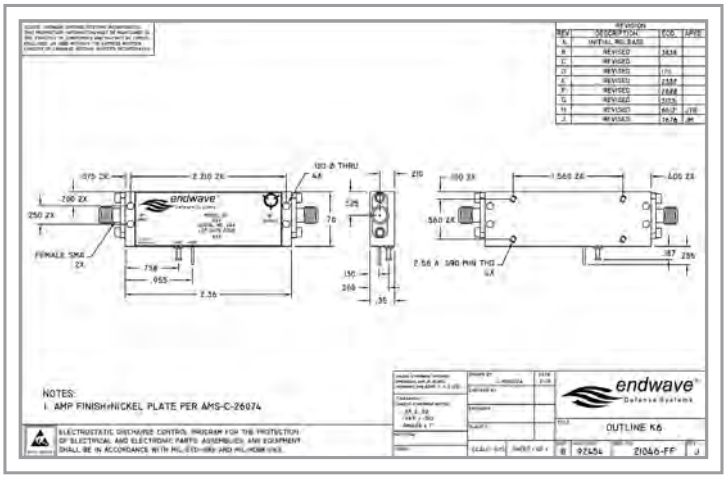
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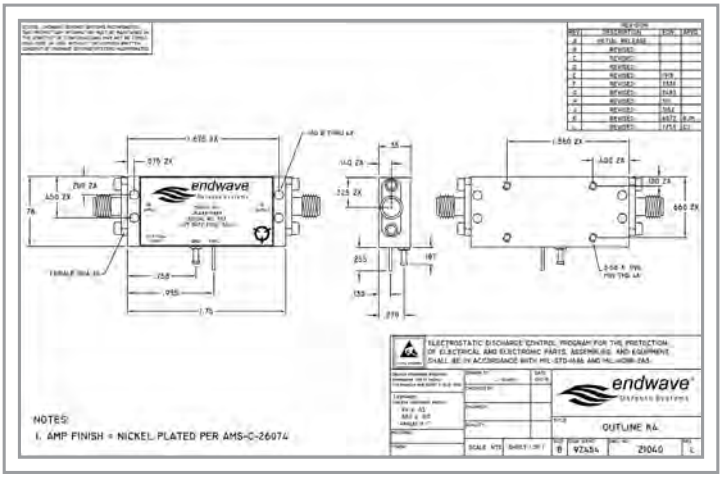
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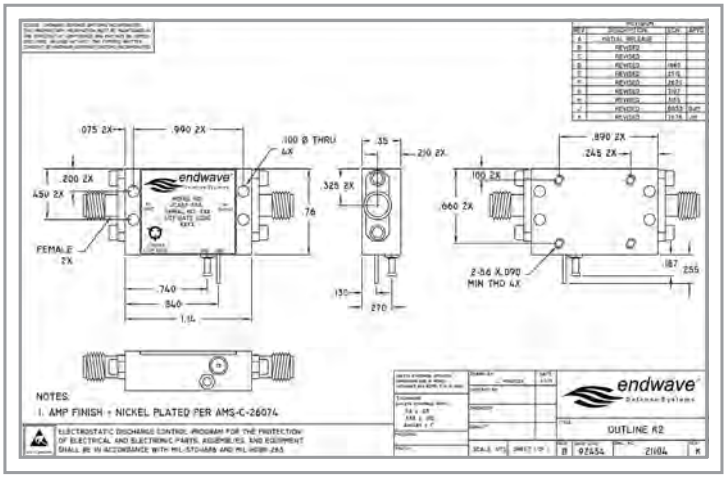
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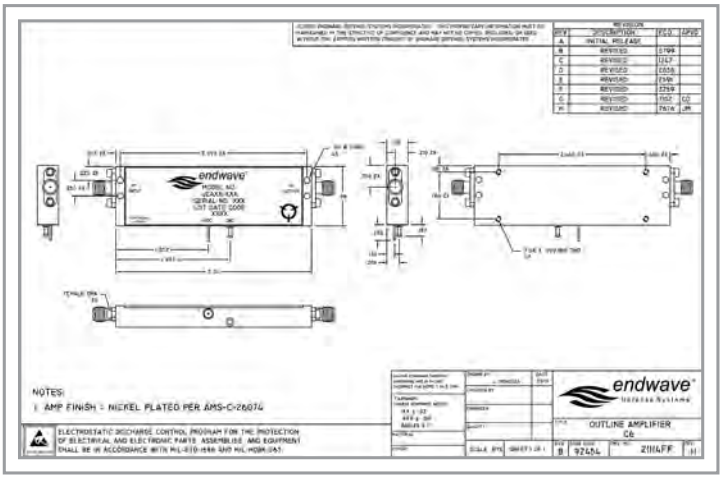
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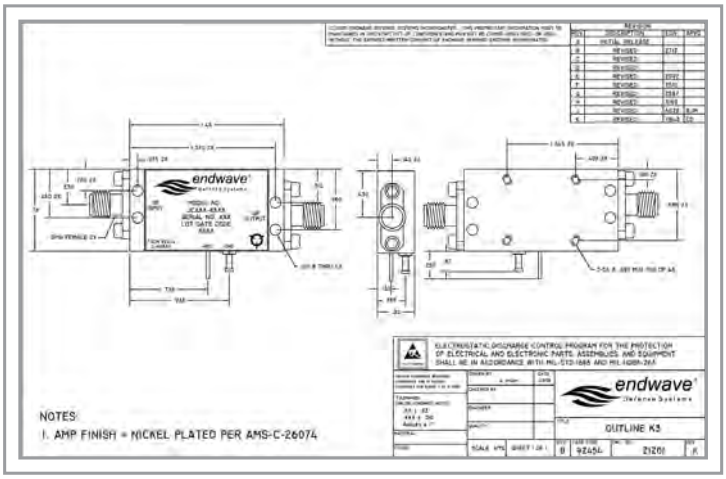
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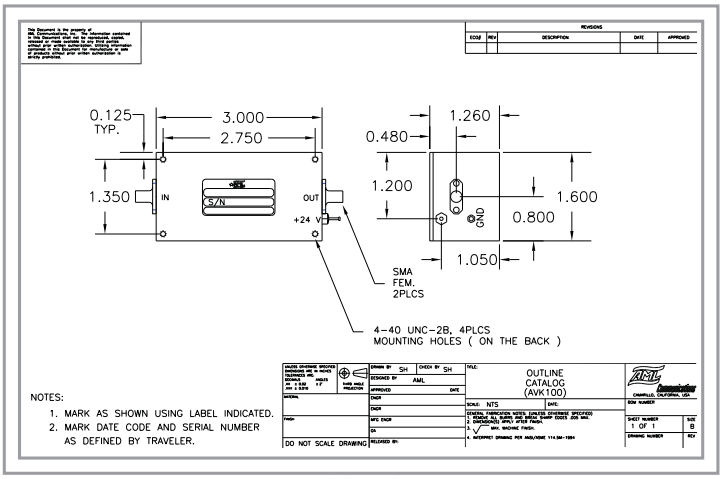
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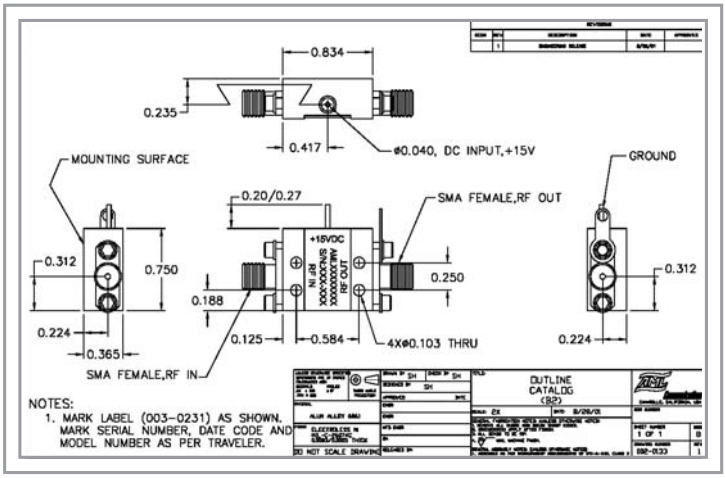
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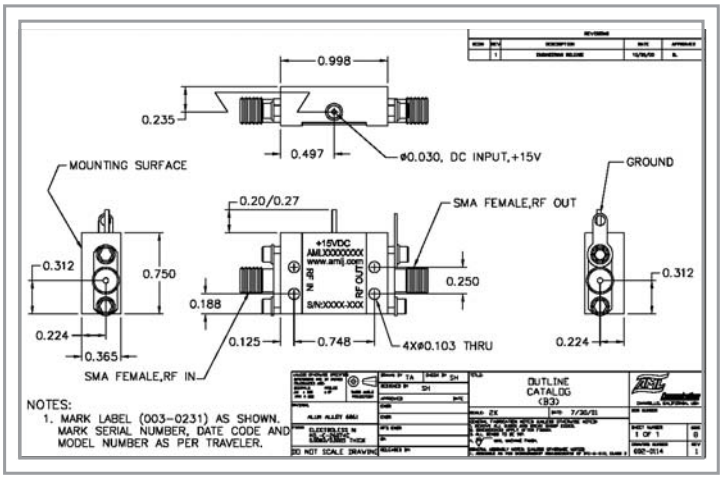
21201 - Outline



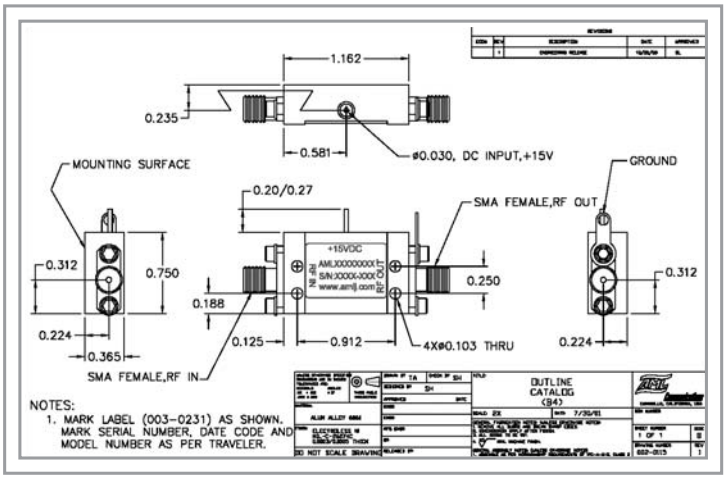
AVK100 - Outline



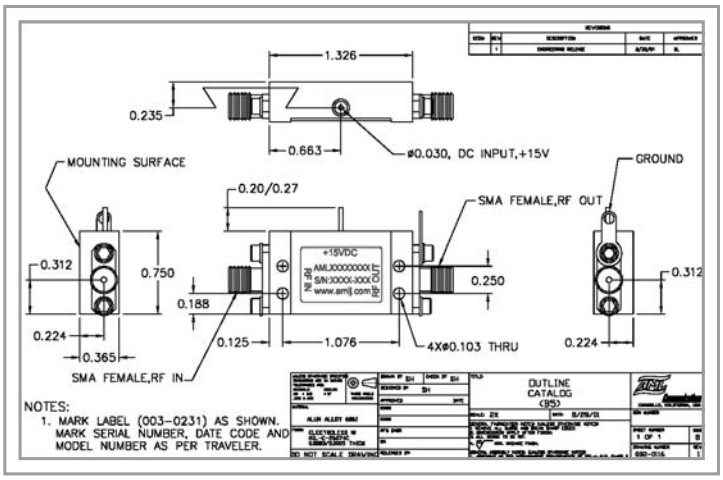
B2 - Outline



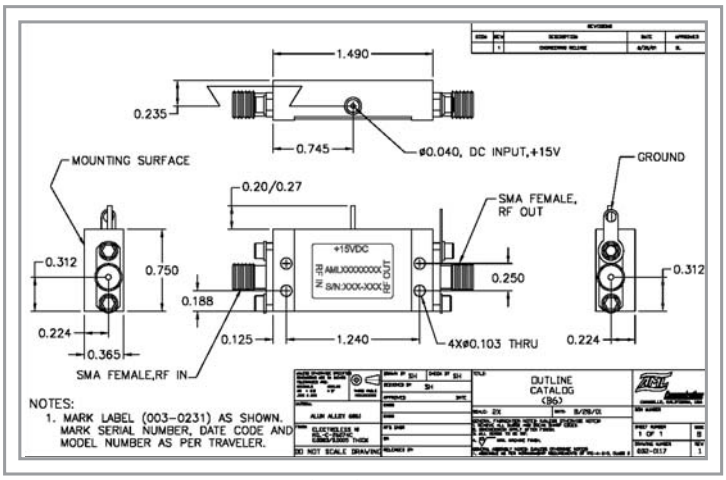
B3 - Outline



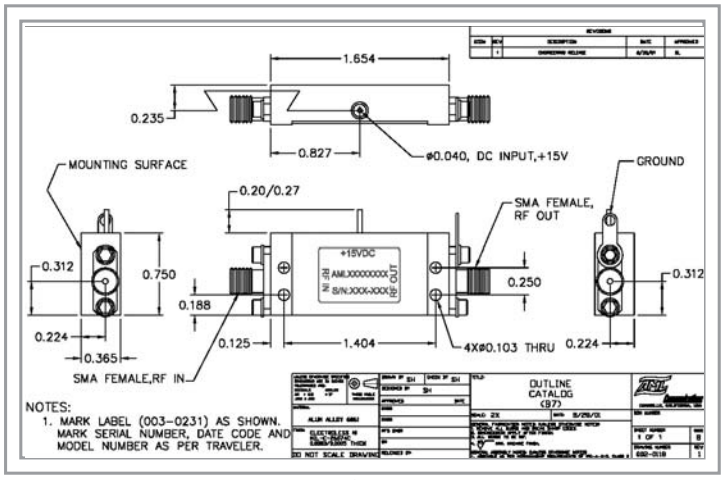
B4 - Outline



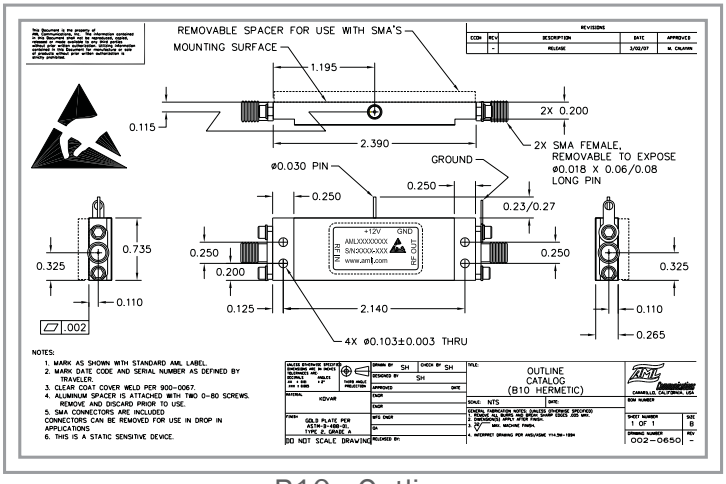
B5 - Outline



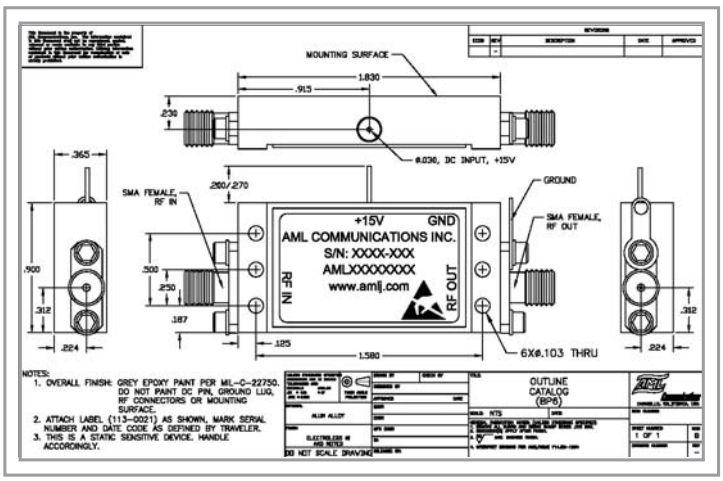
B6 - Outline



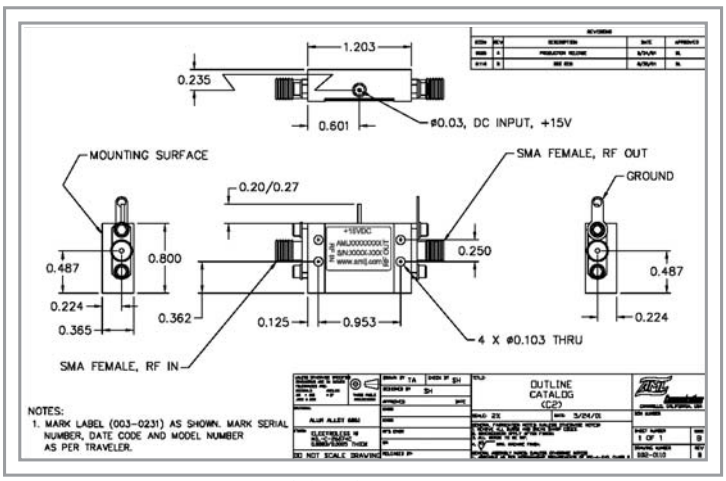
B7 - Outline



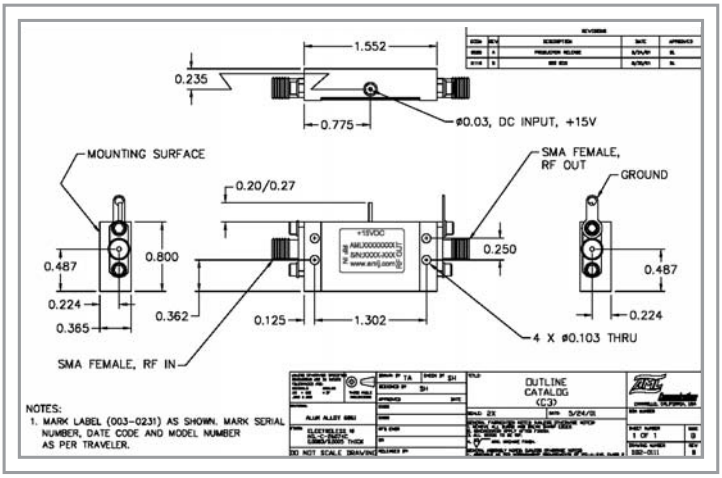
B10 - Outline



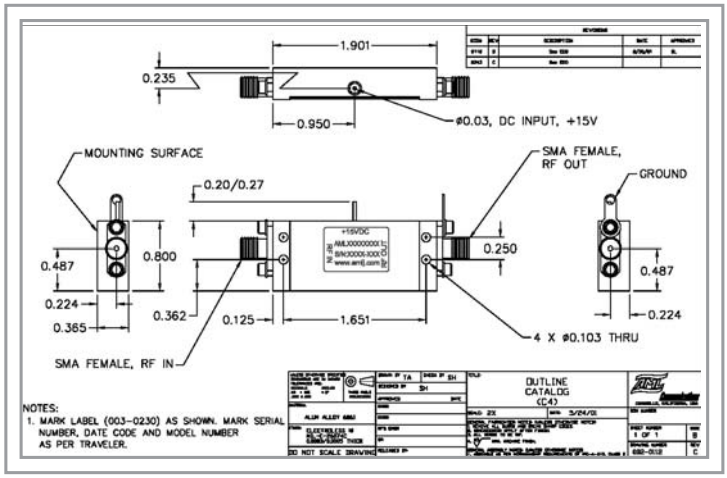
BP6 - Outline



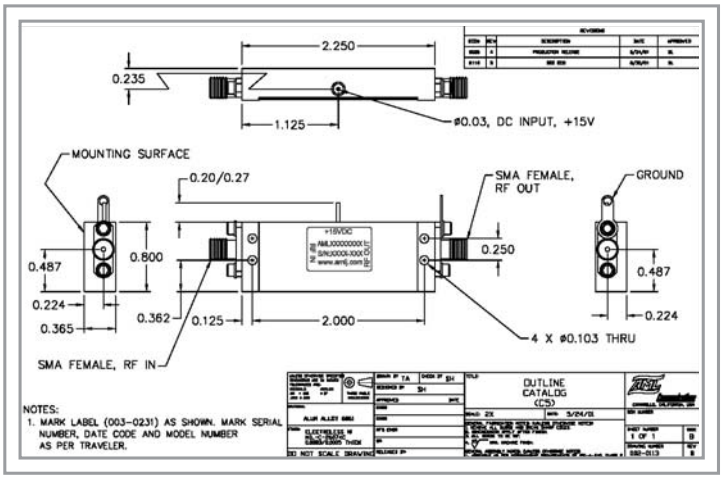
C2 - Outline



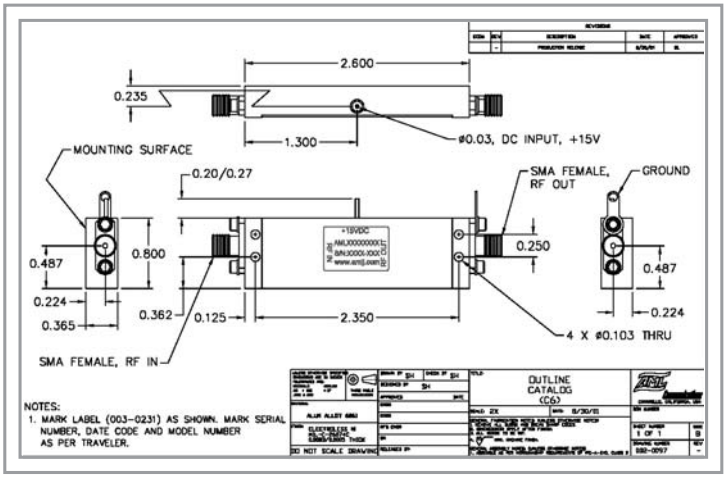
C3 - Outline



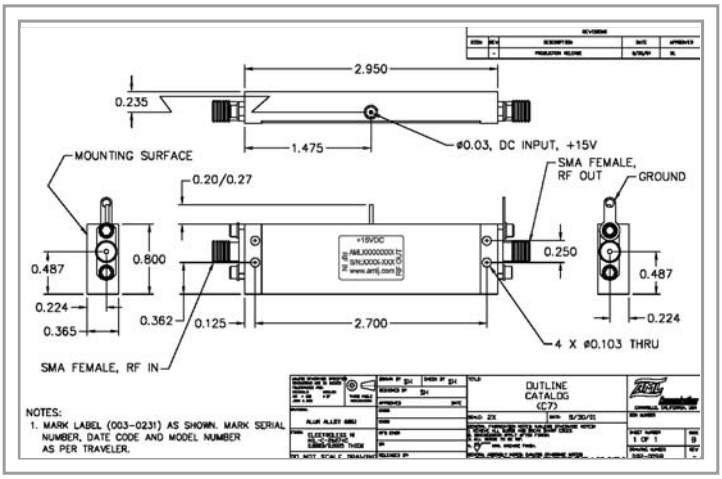
C4 - Outline



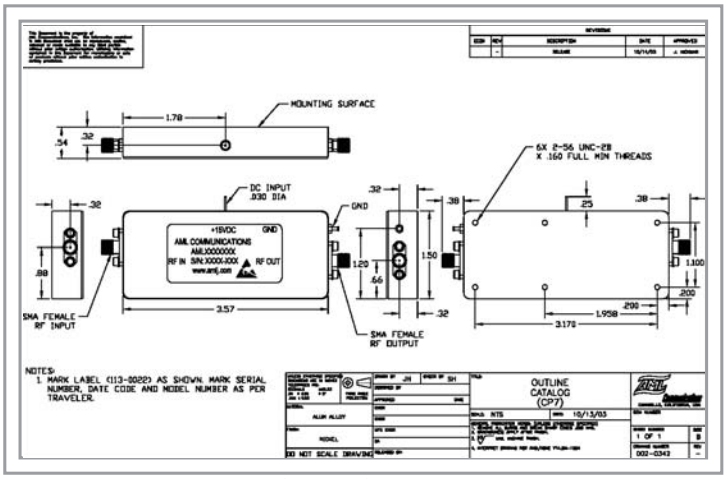
C5 - Outline



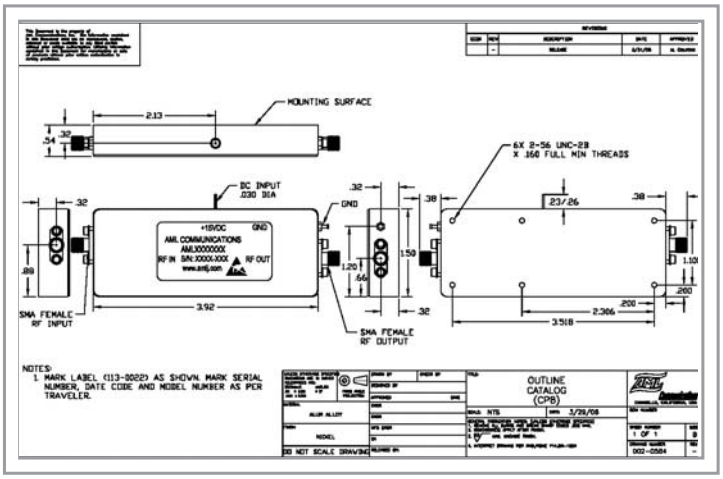
C6 - Outline



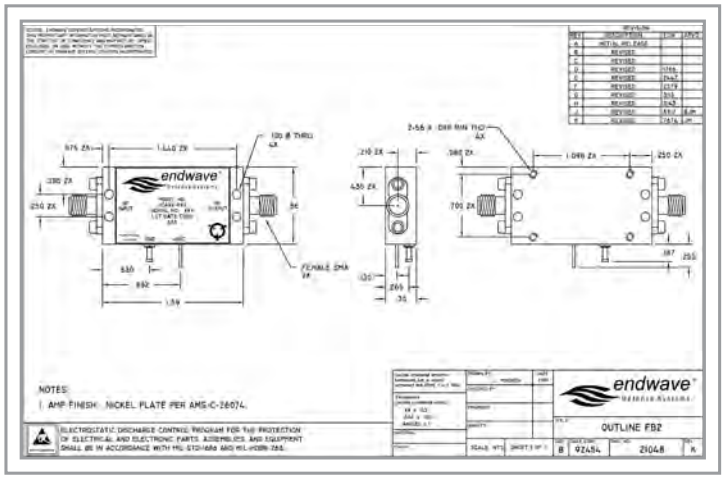
C7 - Outline



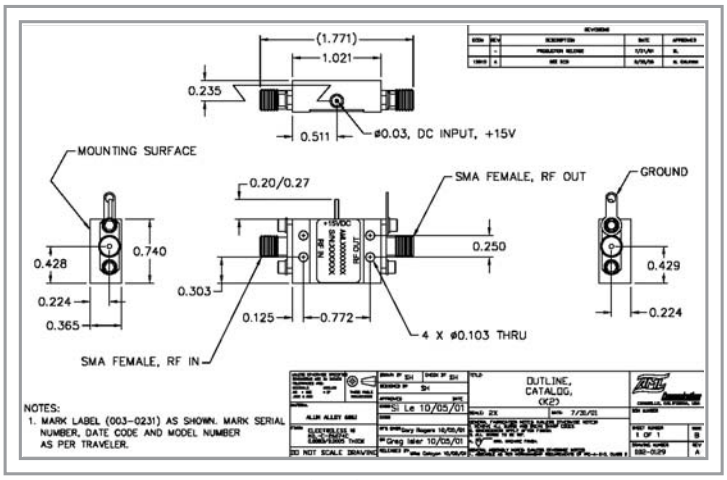
CP7 - Outline



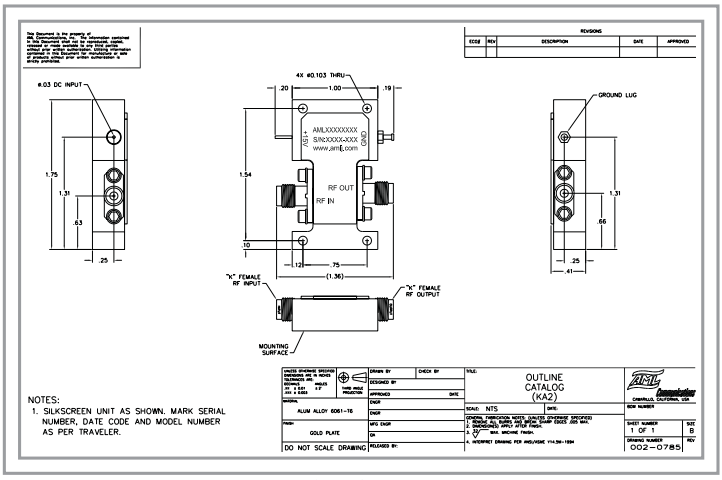
CP8 - Outline



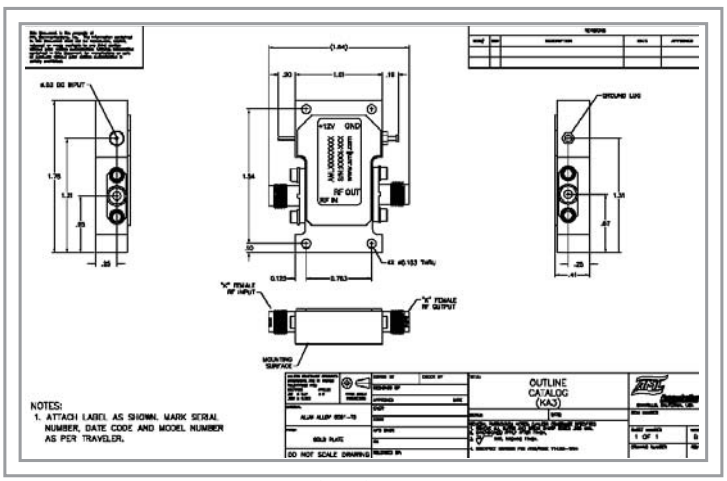
FB2 - Outline



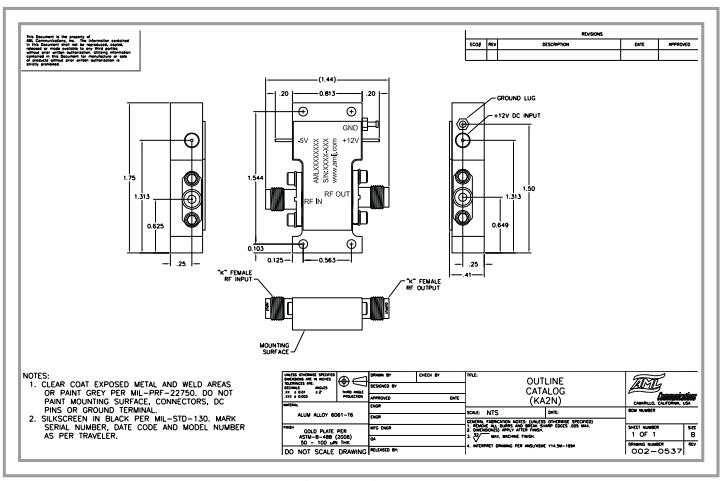
K2 - Outline



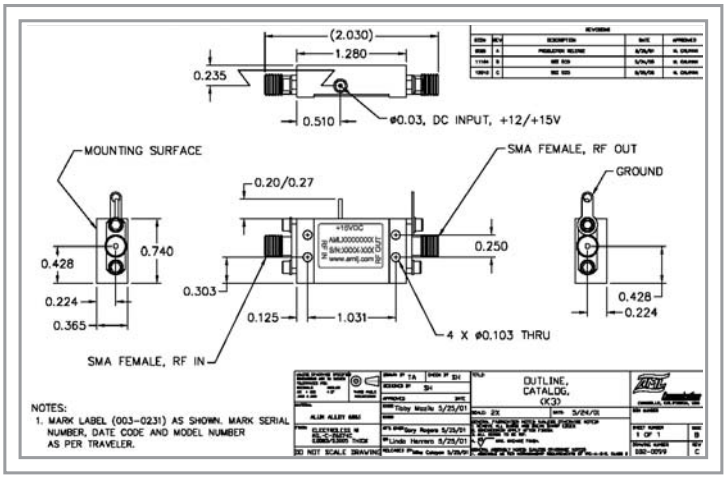
KA2 - Outline



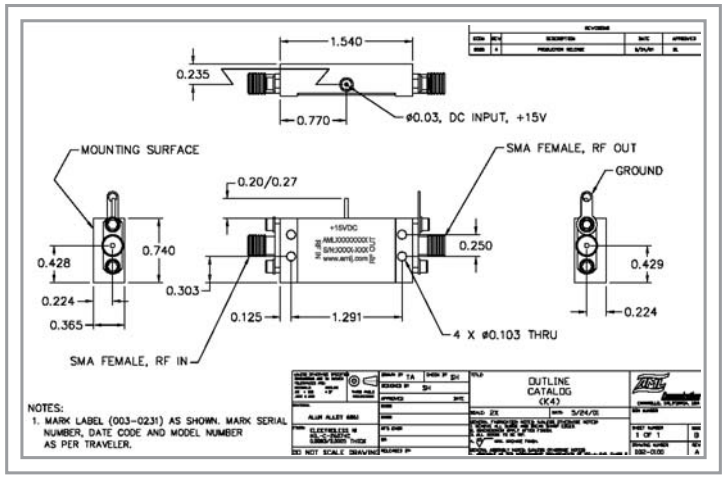
KA3 - Outline



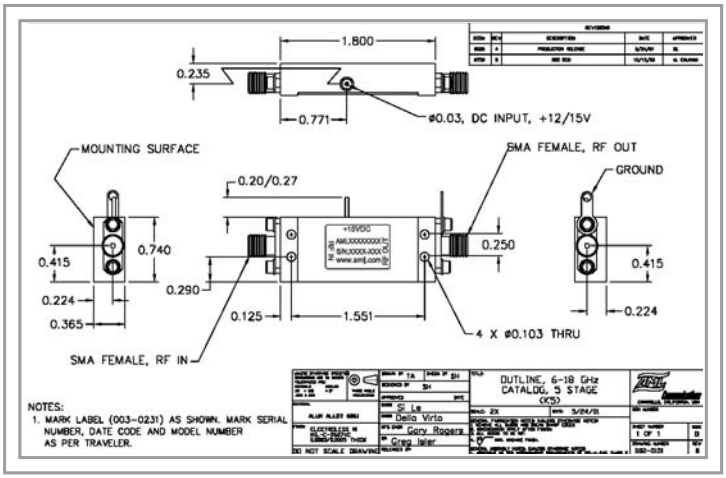
KA3N - Outline



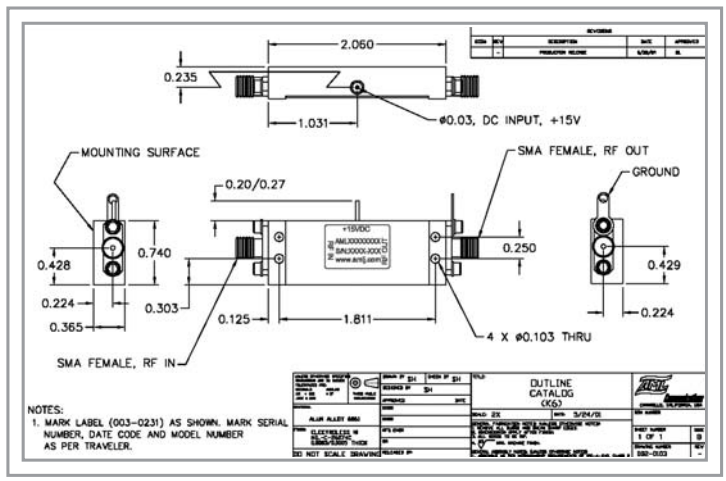
K3 - Outline



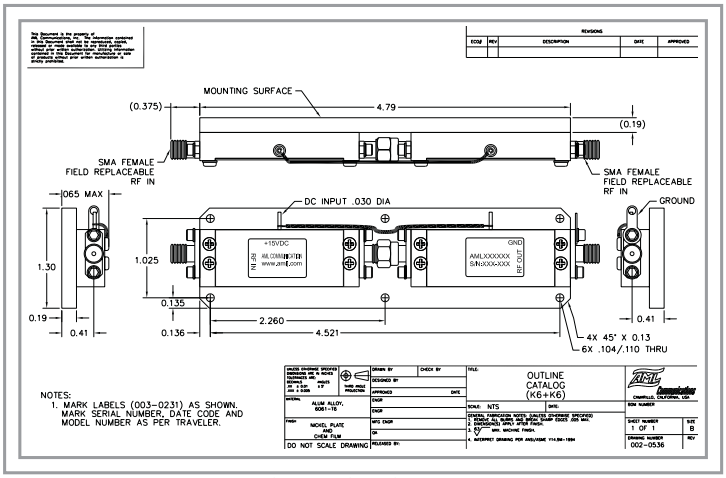
K4 - Outline



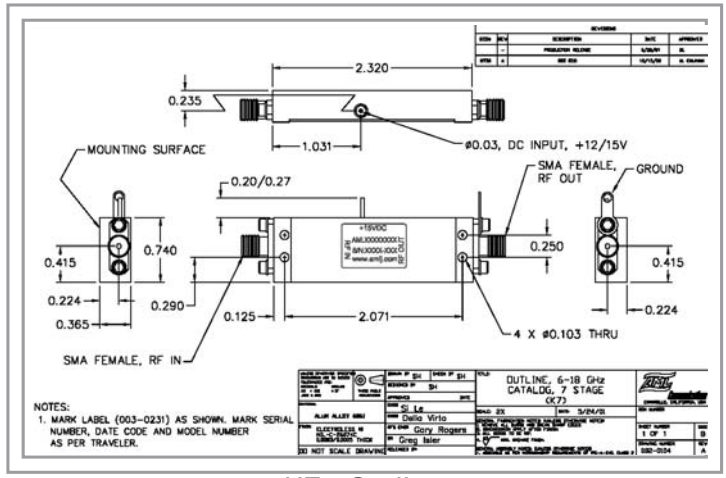
K5 - Outline



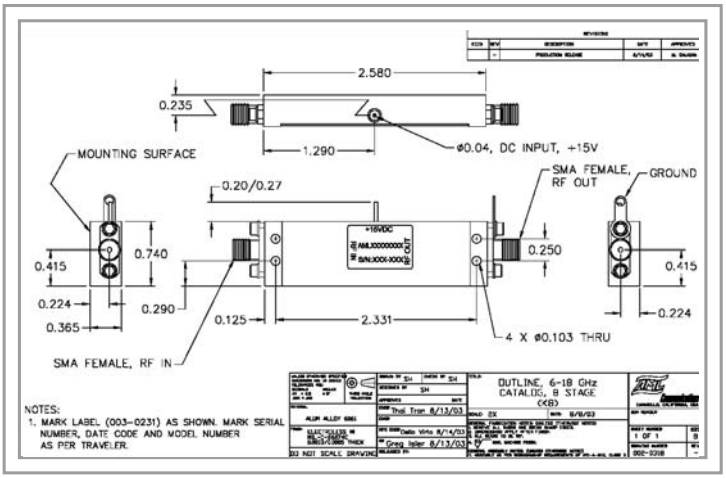
K6 - Outline



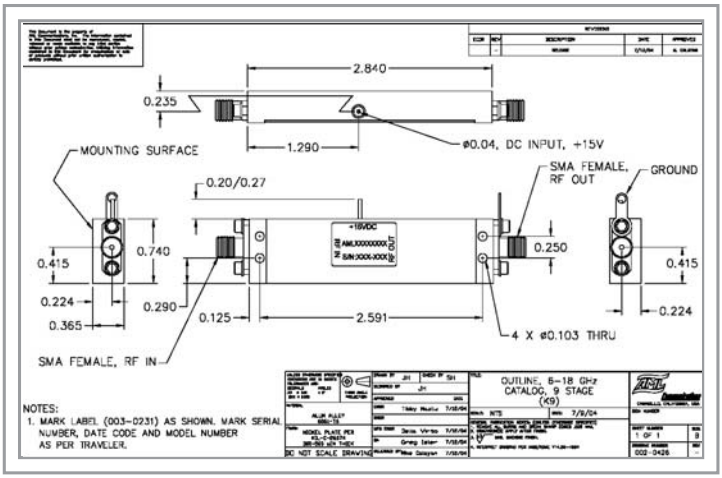
K6 + K6 - Outline



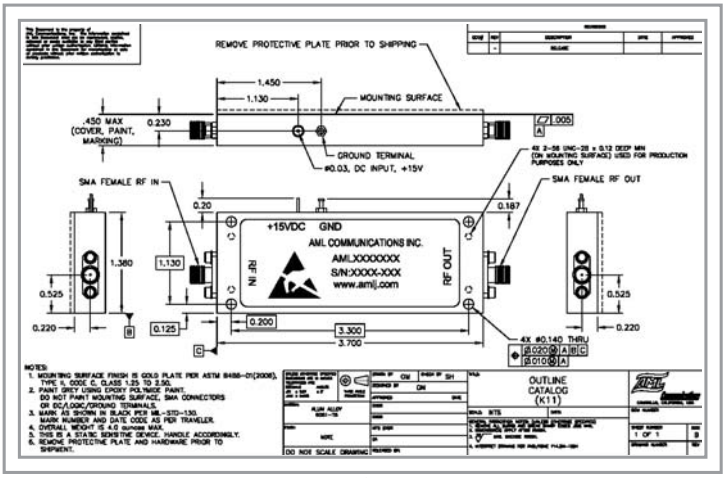
K7 - Outline



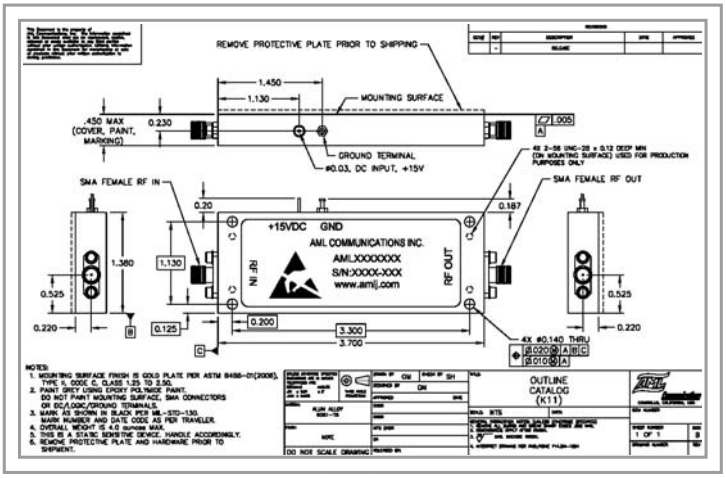
K8 - Outline



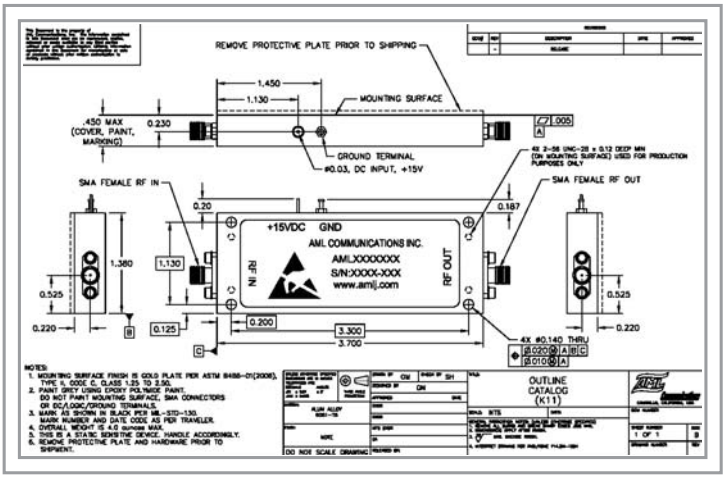
K9 - Outline



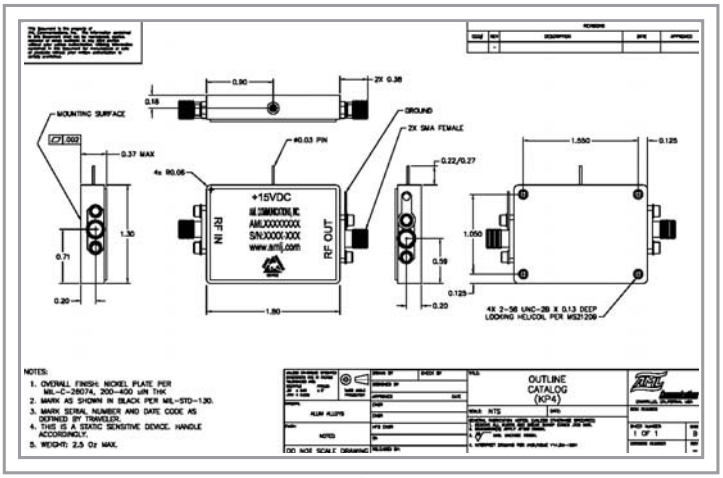
K11 - Outline



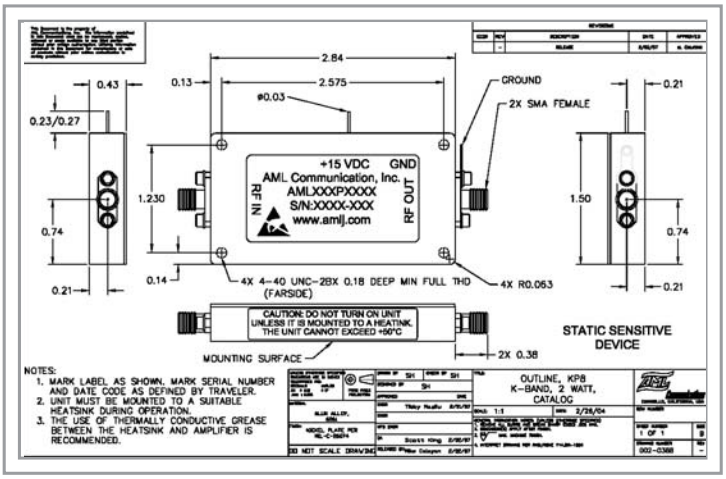
KM2 - Outline



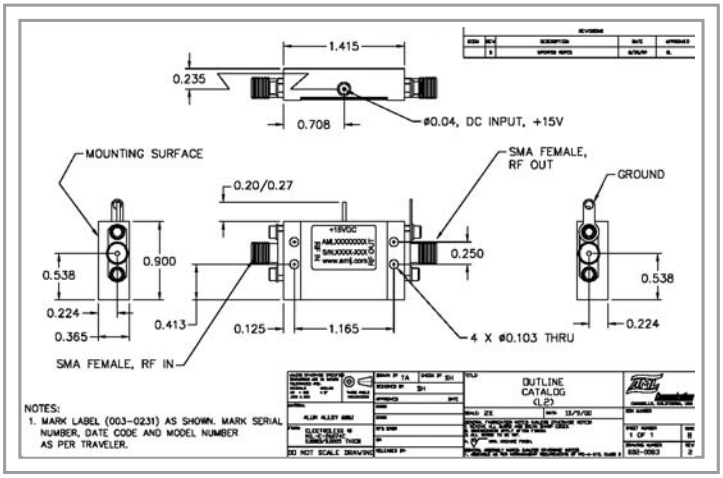
KM4 - Outline



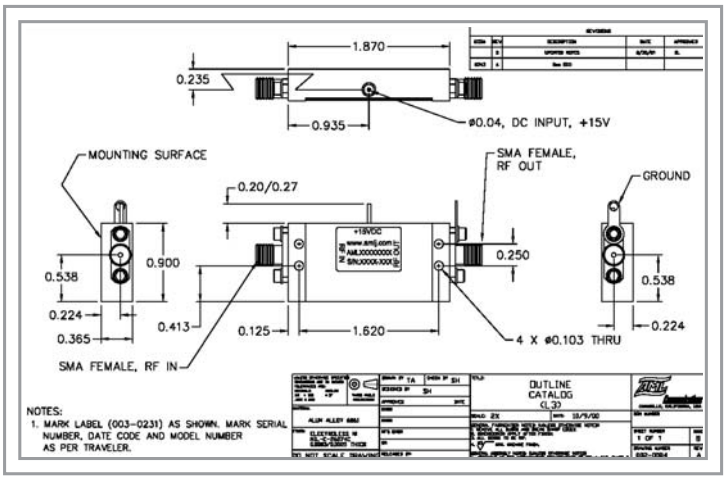
KP4 - Outline



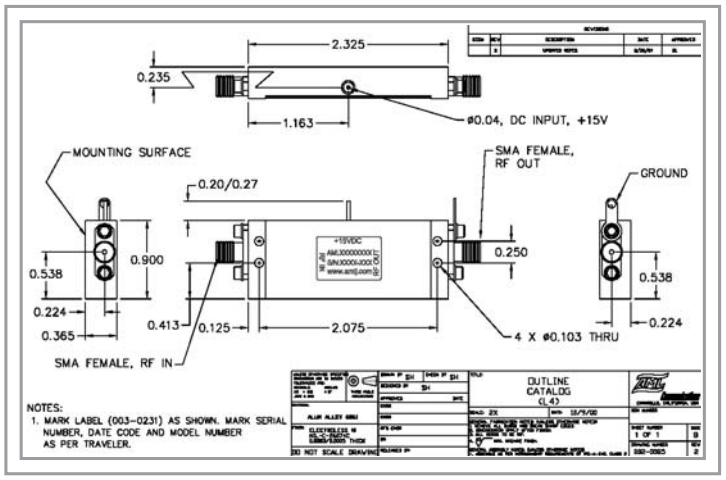
KP8 - Outline



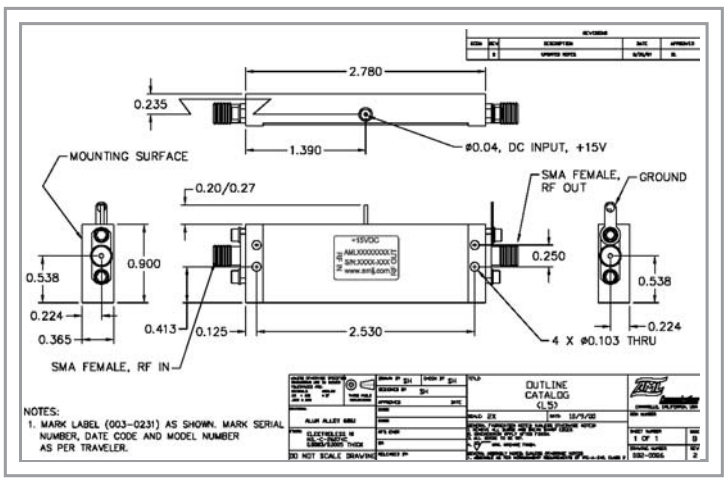
L2 - Outline



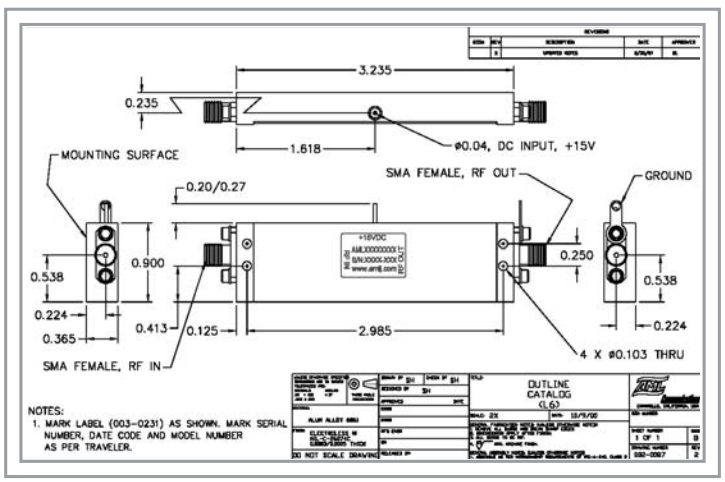
L3 - Outline



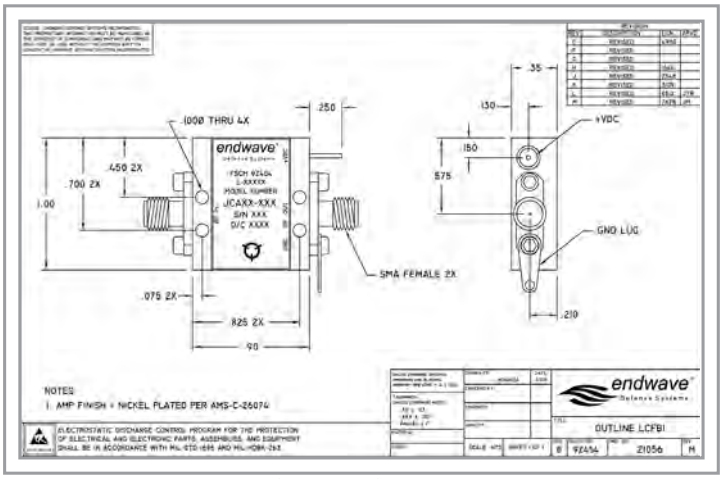
L4 - Outline



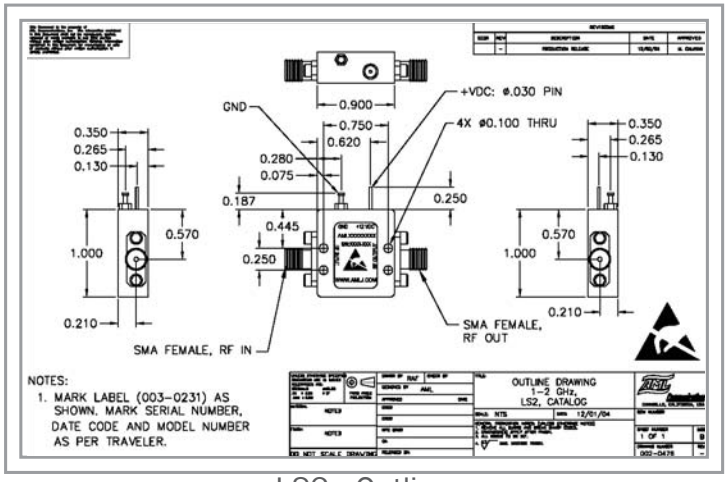
L5 - Outline



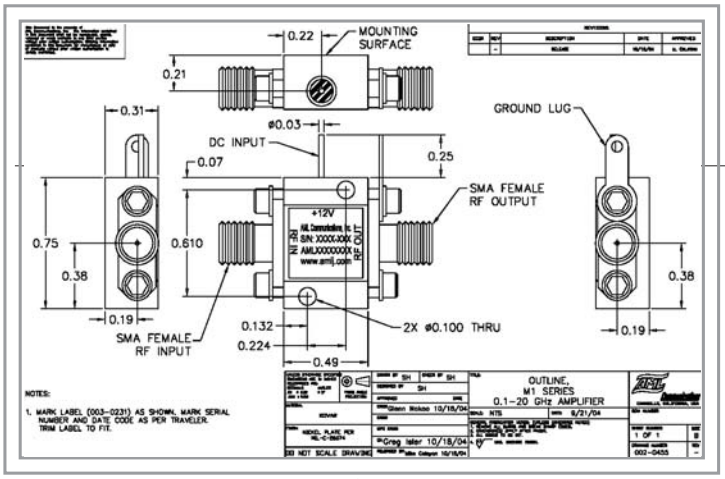
L6 - Outline



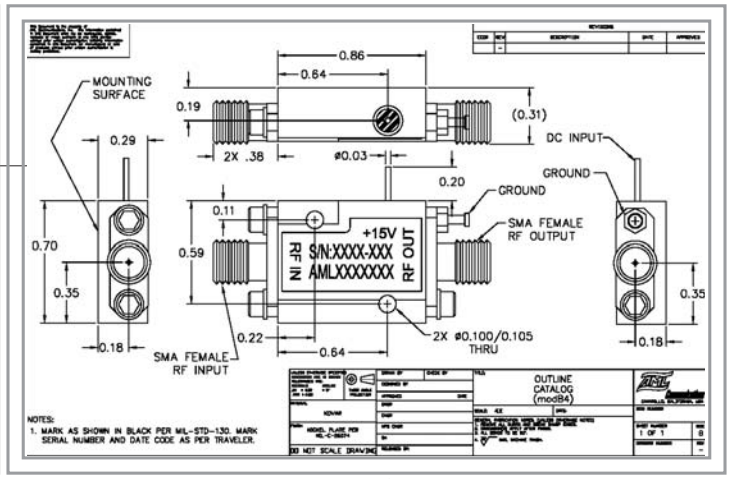
LCFB1 - Outline



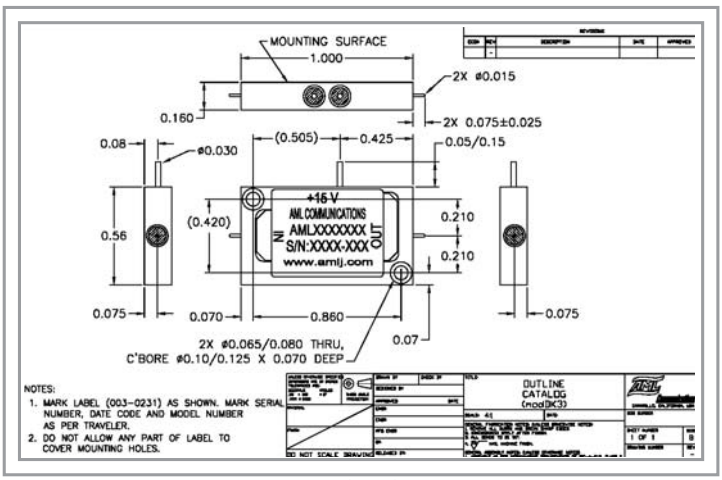
LS2 - Outline



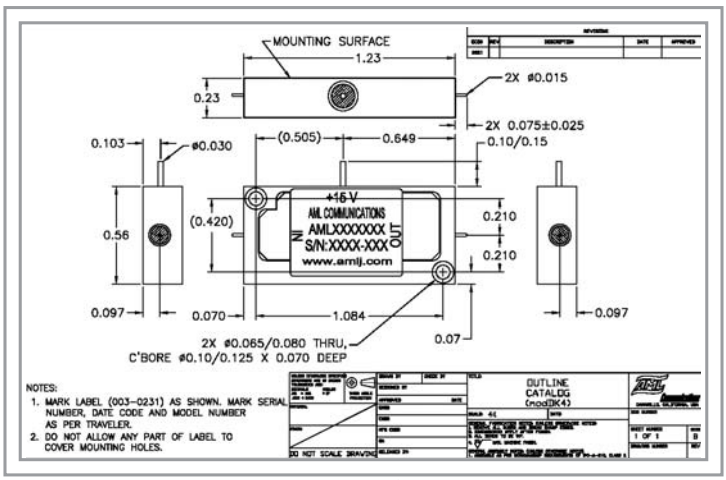
M1 - Outline



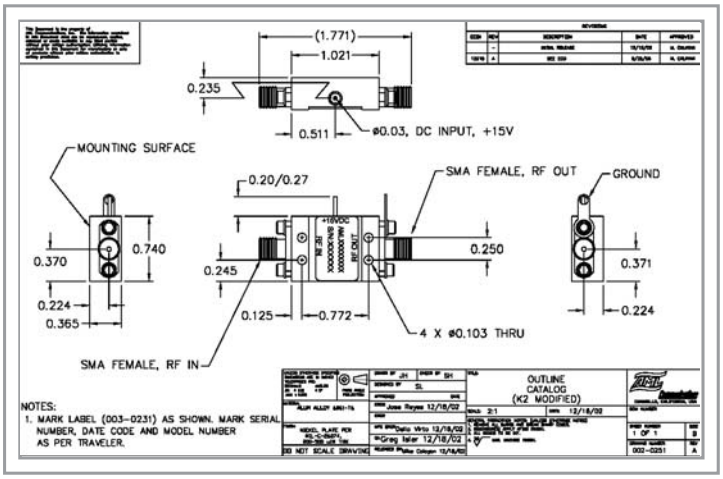
ModB4 - Outline



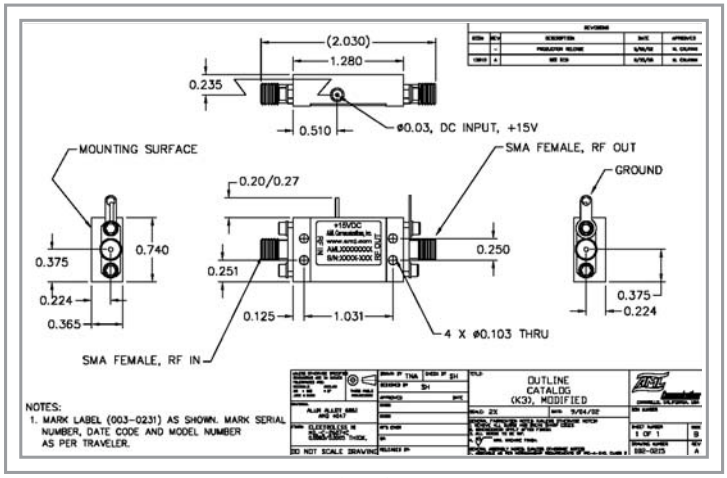
ModDK3 - Outline



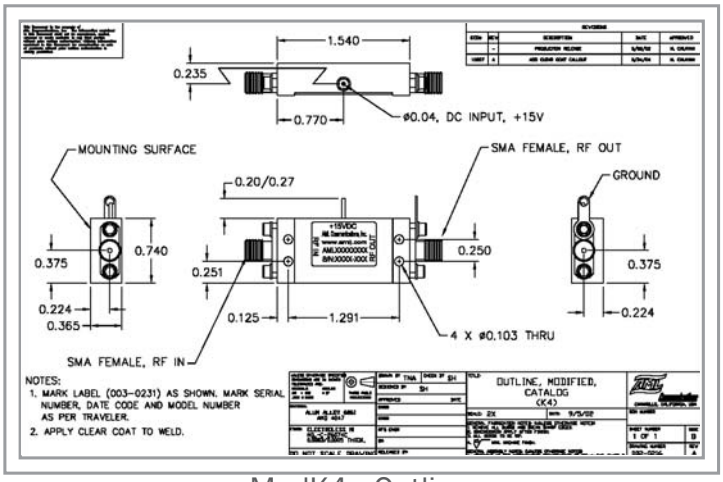
ModDK4 - Outline



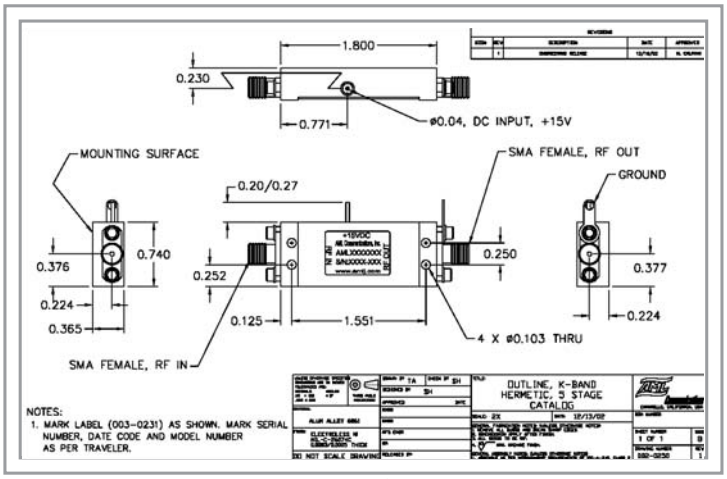
ModK2 - Outline



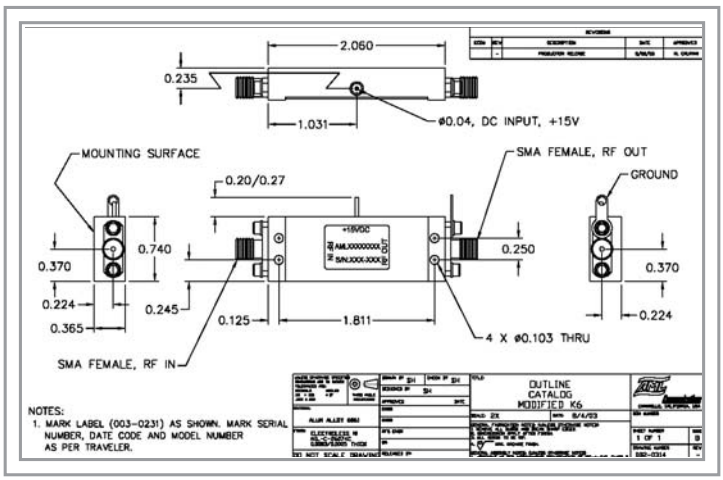
ModK3 - Outline



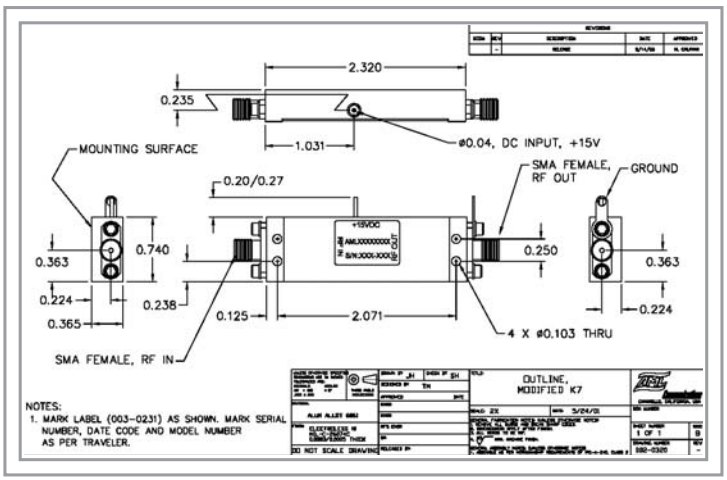
ModK4 - Outline



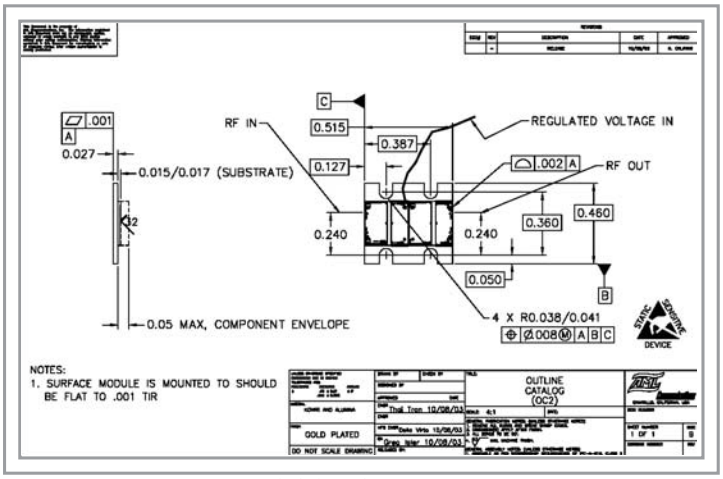
ModK5 - Outline



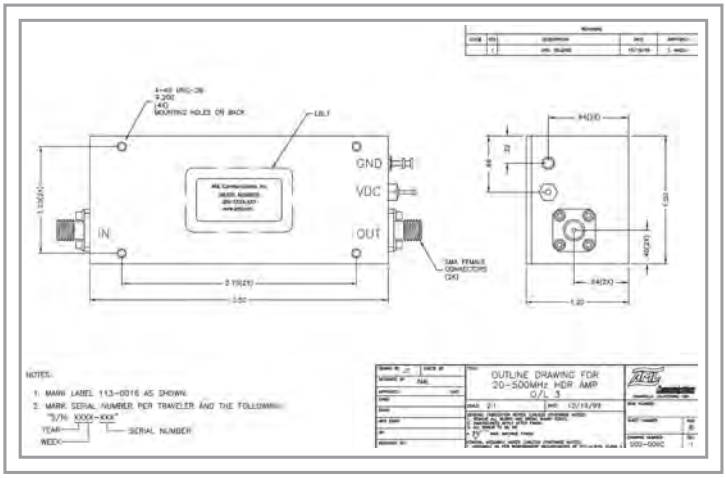
ModK6 - Outline



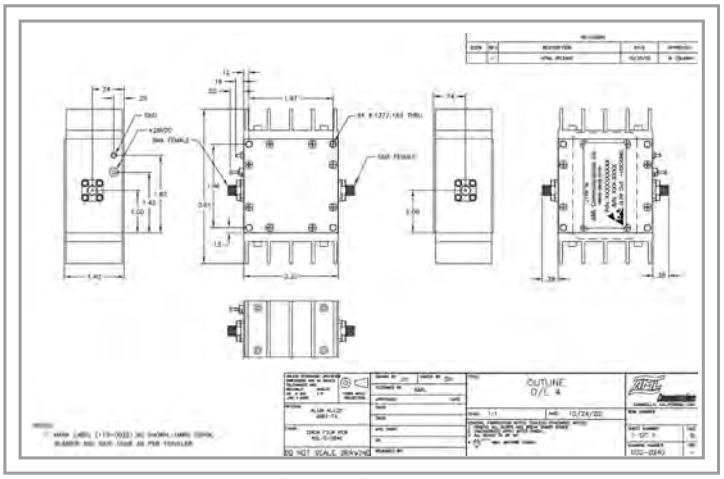
ModK7 - Outline



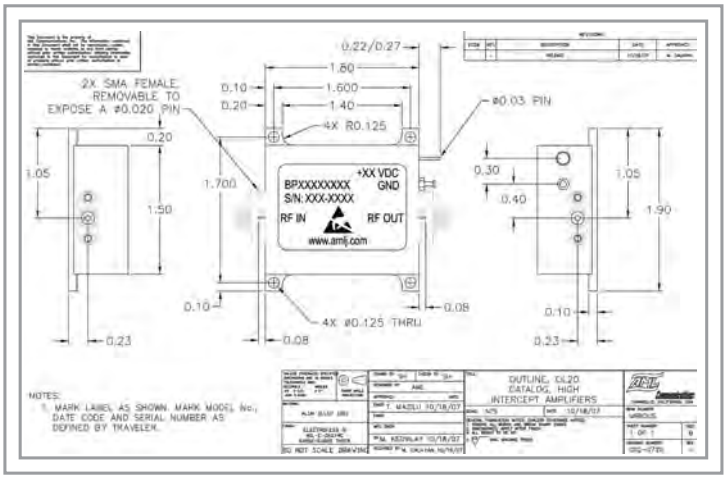
OC2 - Outline



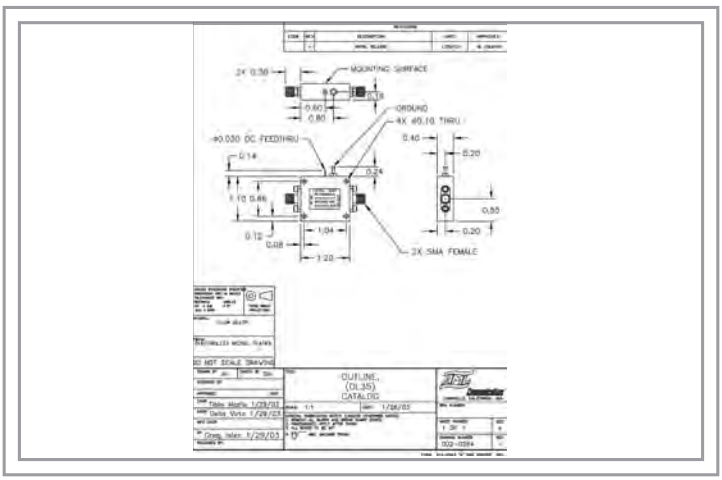
OL3 - Outline



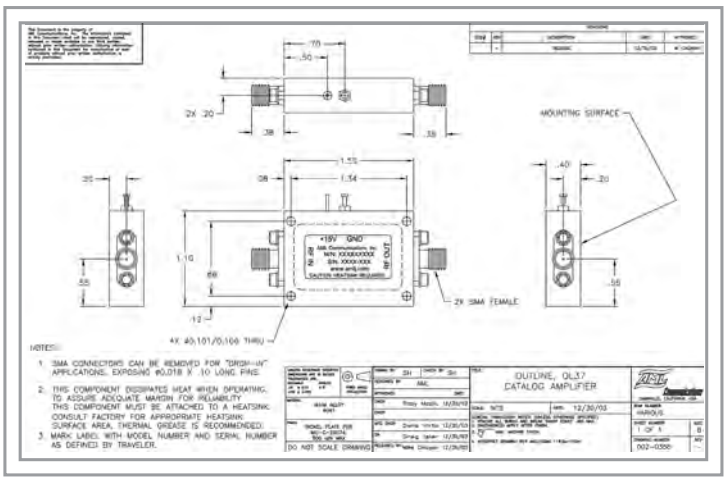
OL4 - Outline



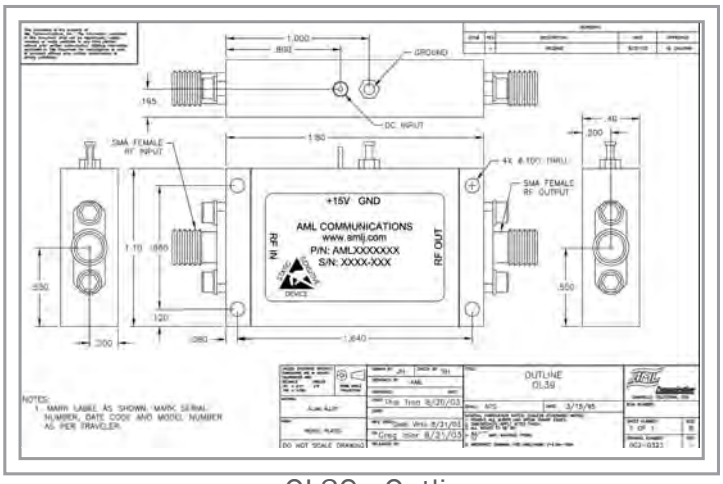
OL20 - Outline



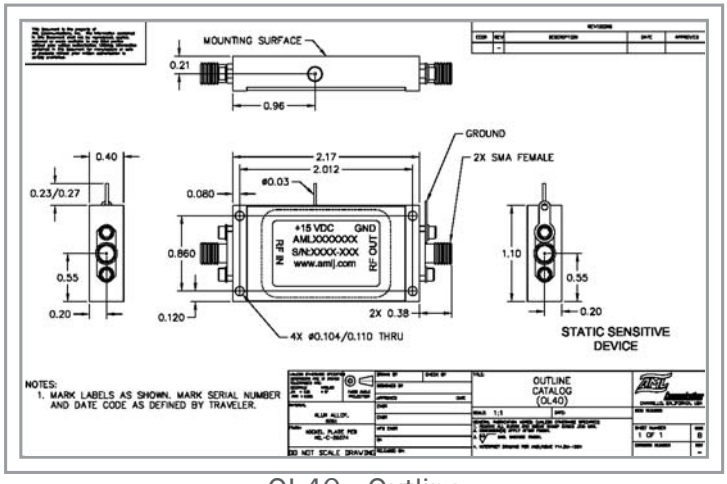
OL35 - Outline



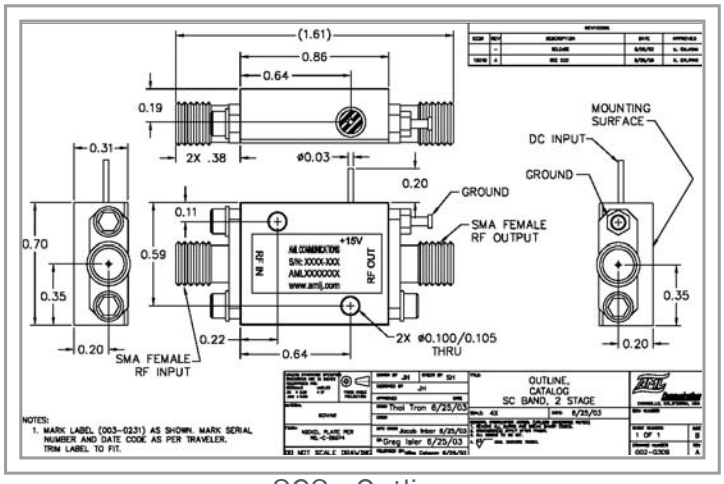
OL37 - Outline



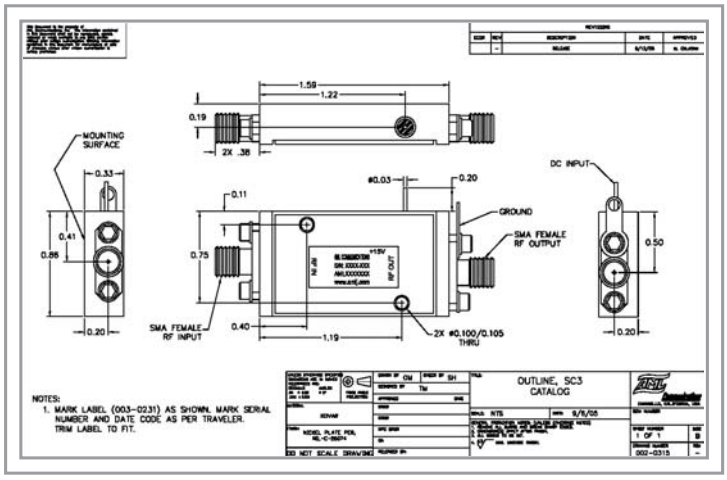
OL39 - Outline



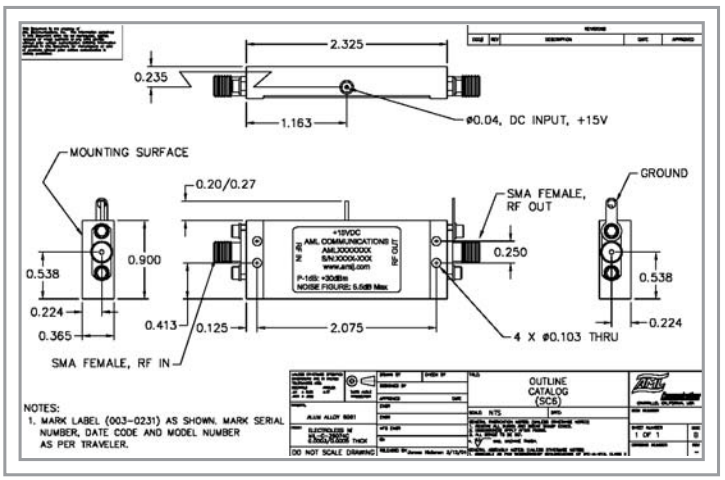
OL40 - Outline



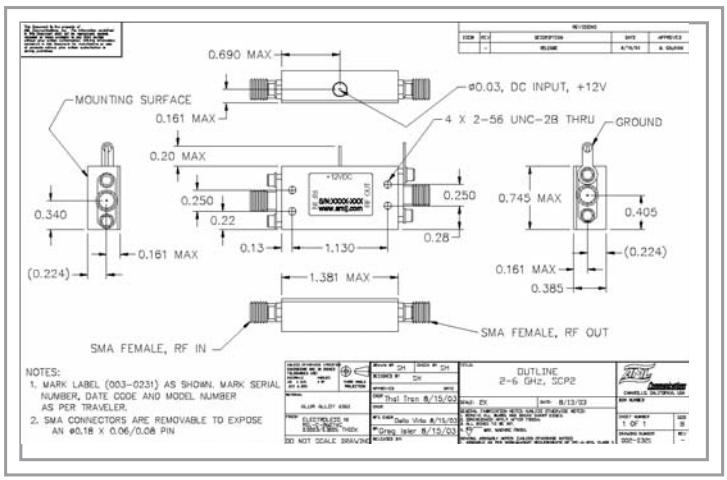
SC2 - Outline



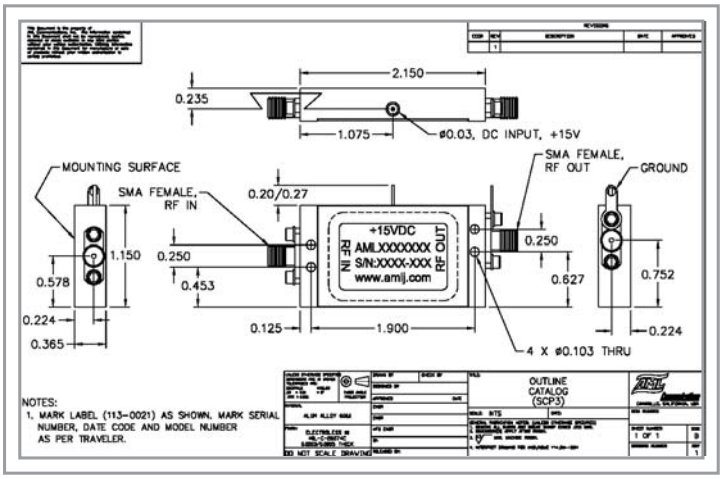
SC3 - Outline



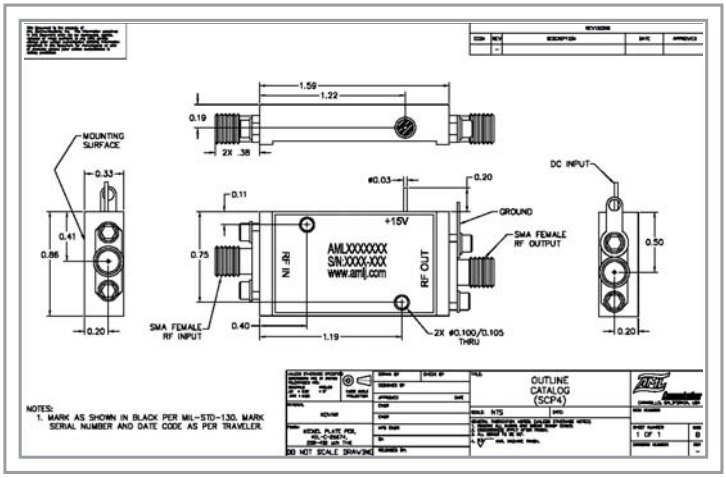
SC6- Outline



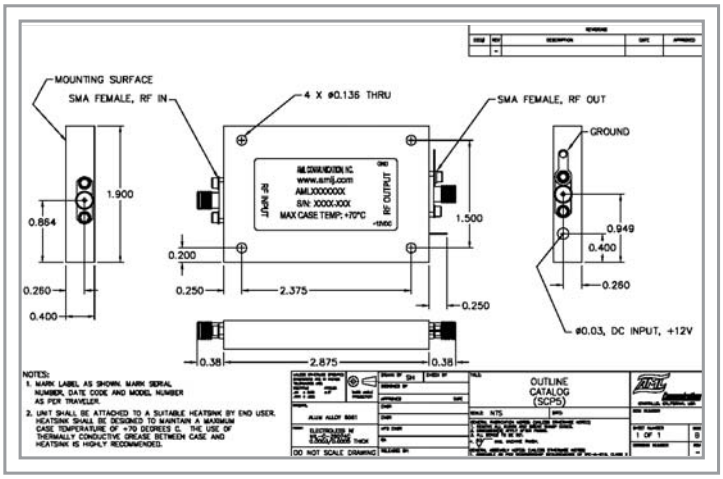
SCP2 - Outline



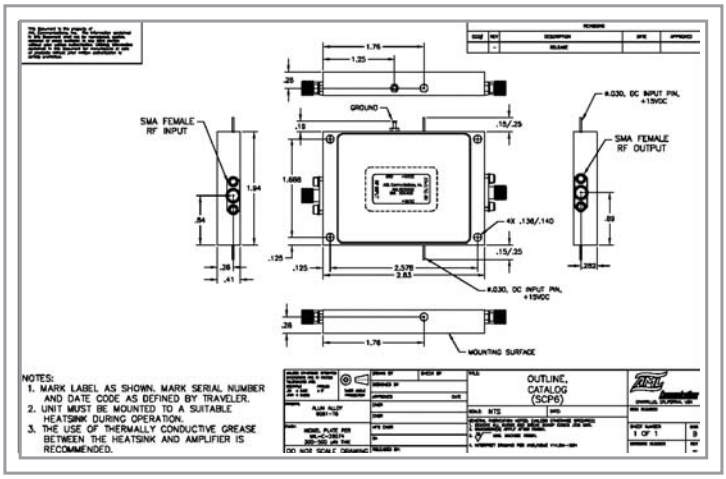
SCP3 - Outline



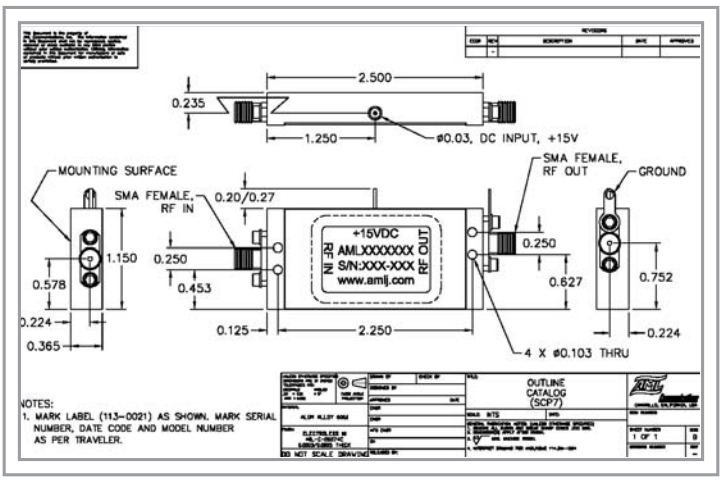
SCP4 - Outline



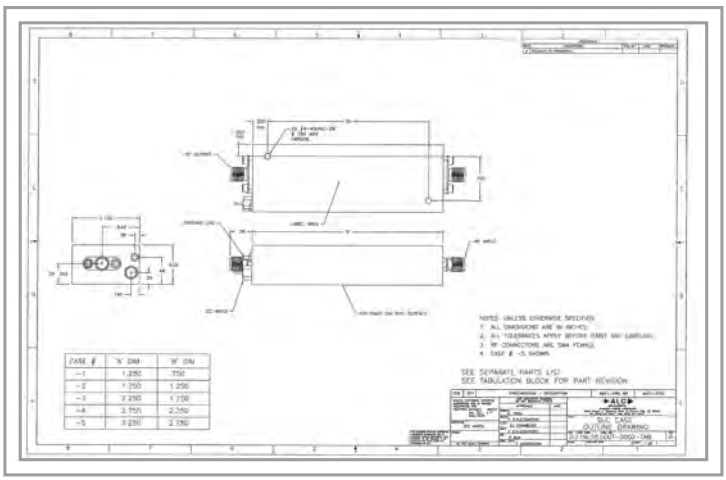
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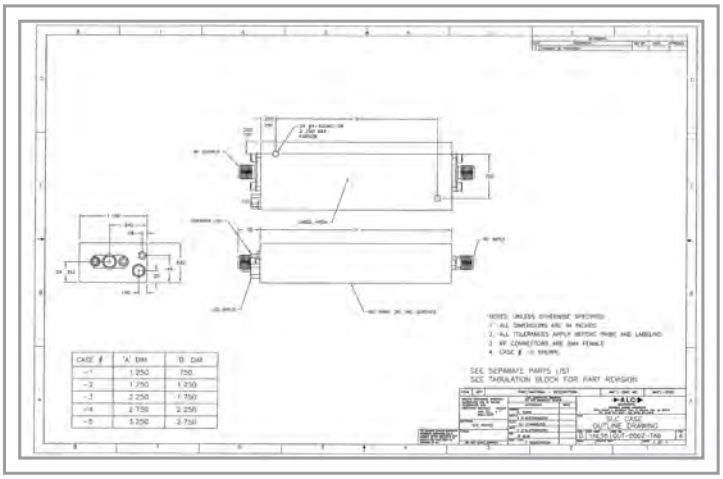
SCP6 - Outline



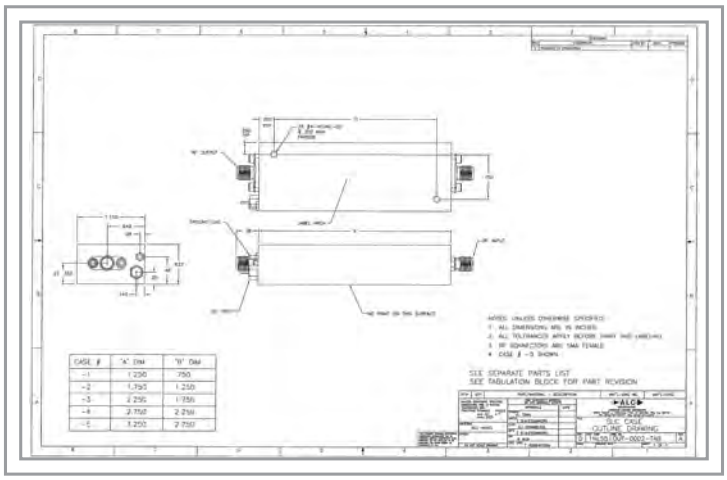
SCP7 - Outline



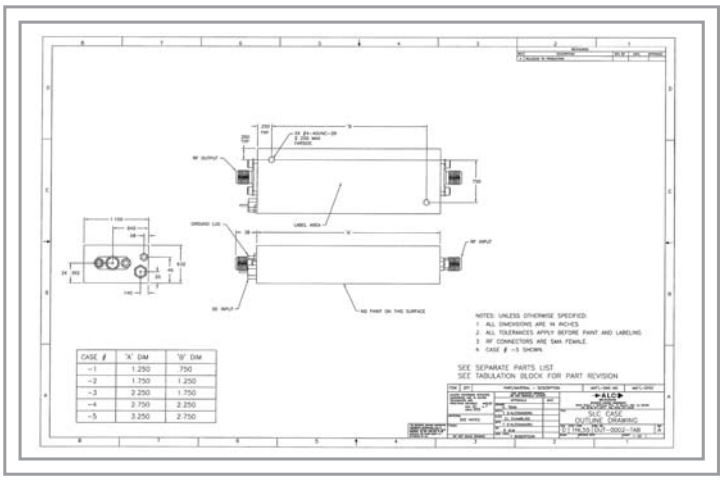
SLC-1 - Outline



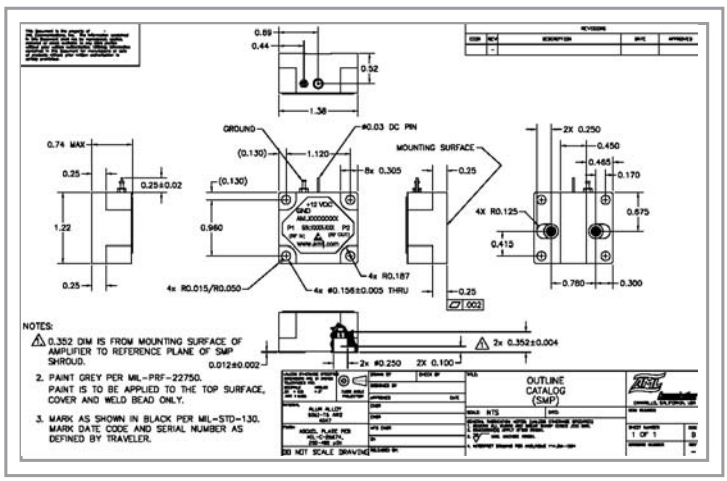
SLC-2 - Outline



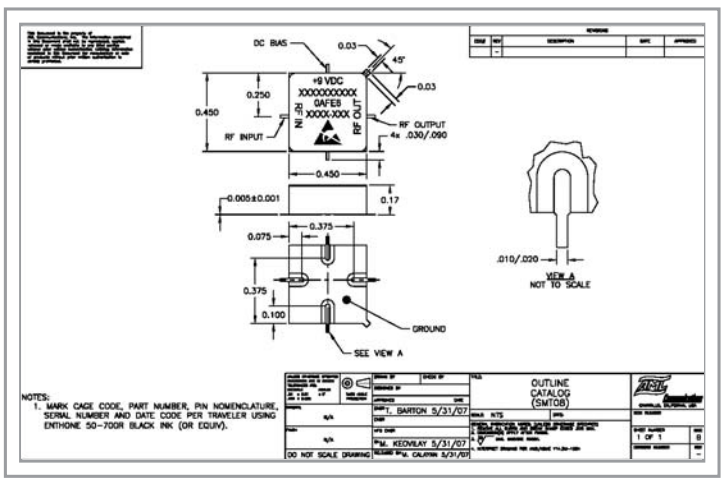
SLC-3 - Outline



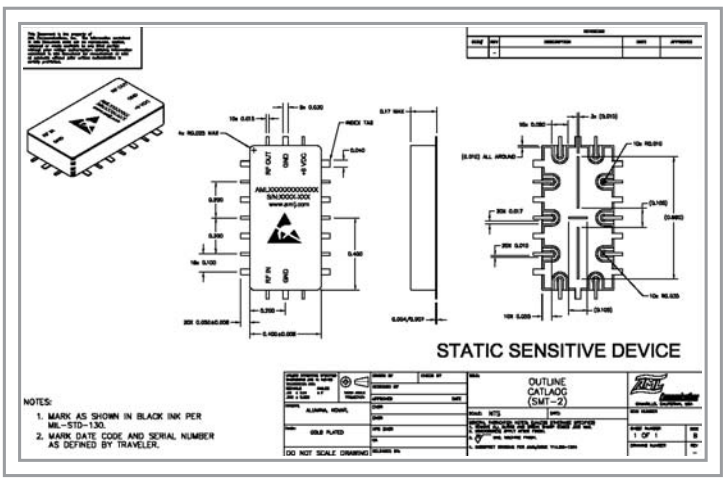
SLC - Outline



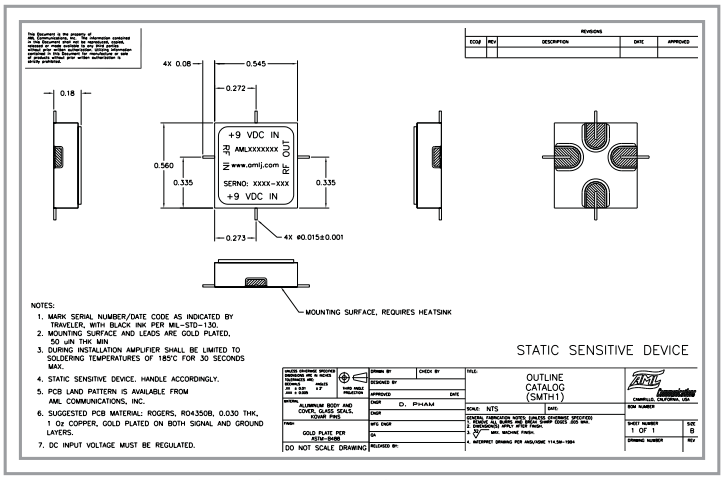
SMP2 - Outline



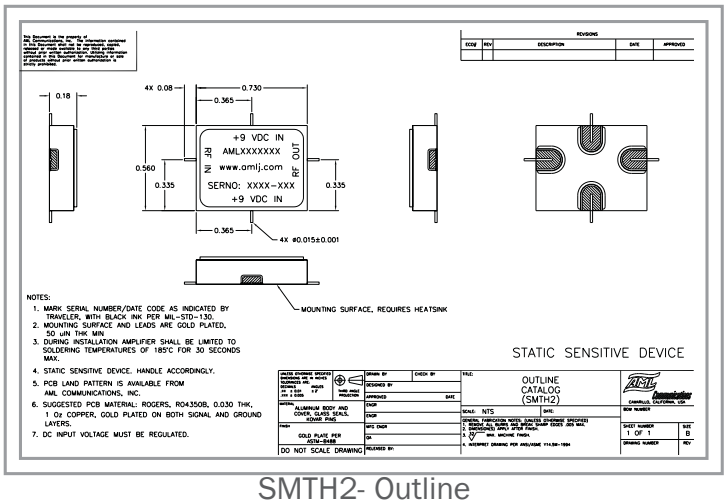
SMT08- Outline



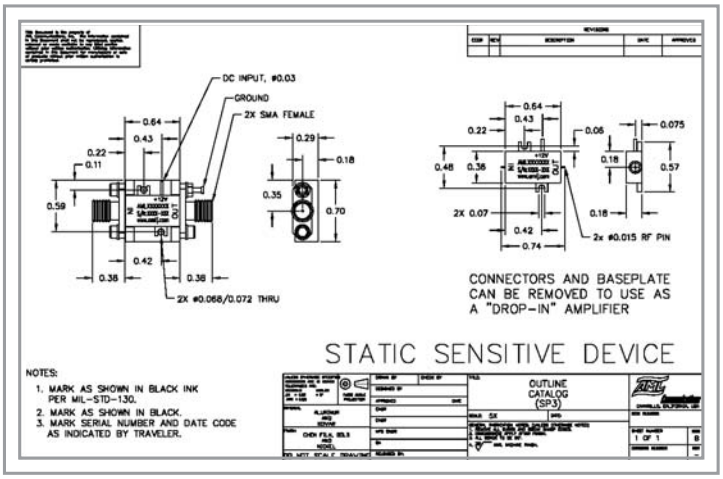
SMT-2 - Outline



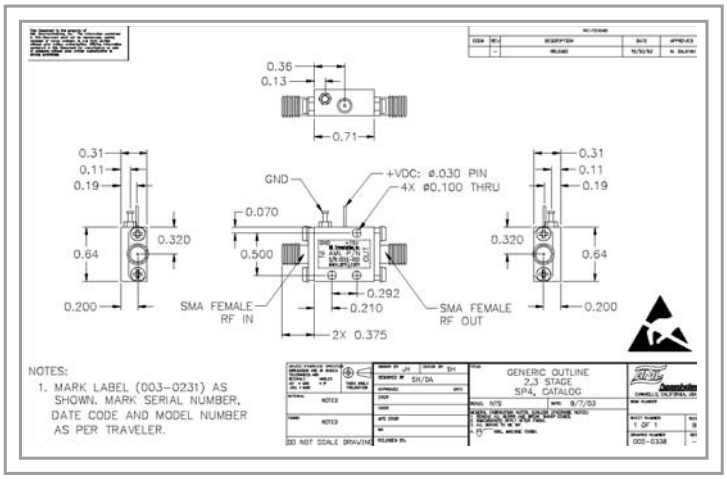
SMTH1 - Outline



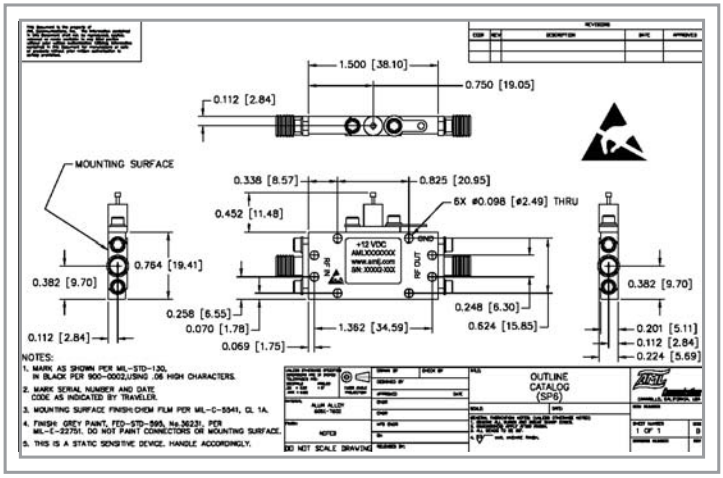
SMTH2- Outline



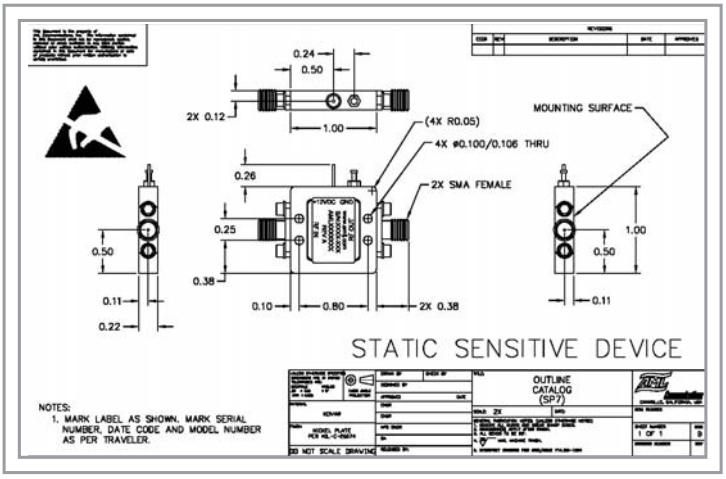
SP3 - Outline



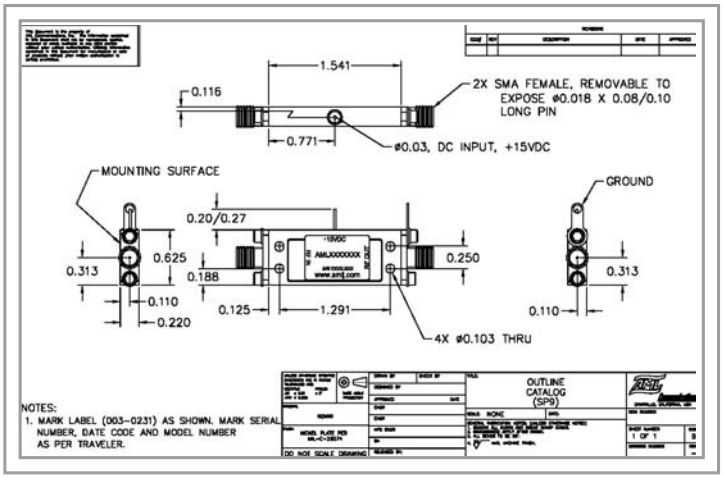
SP4 - Outline



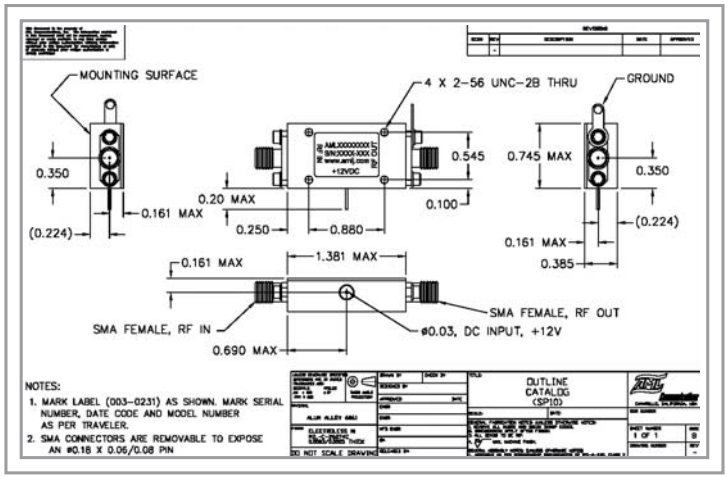
SP6 - Outline



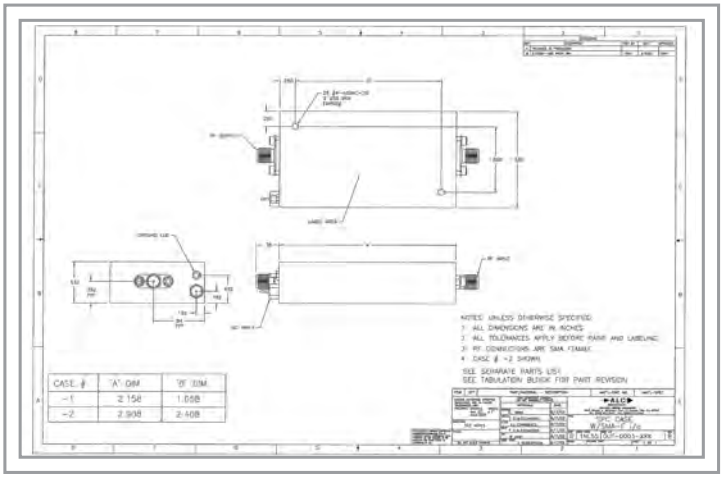
SP7 - Outline



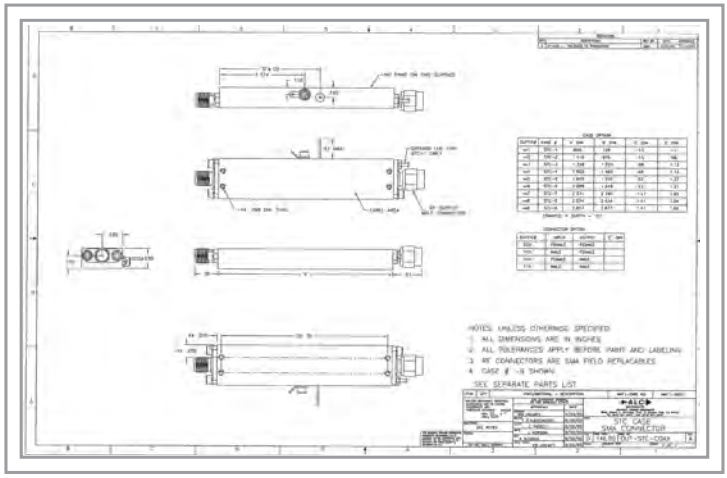
SP9 - Outline



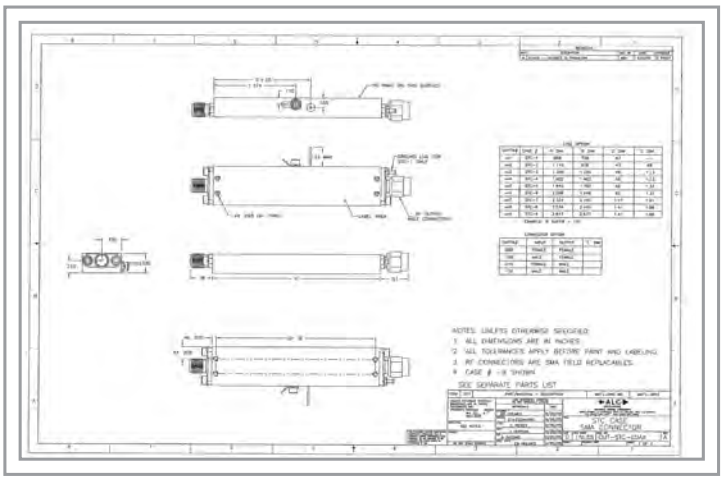
SP10- Outline



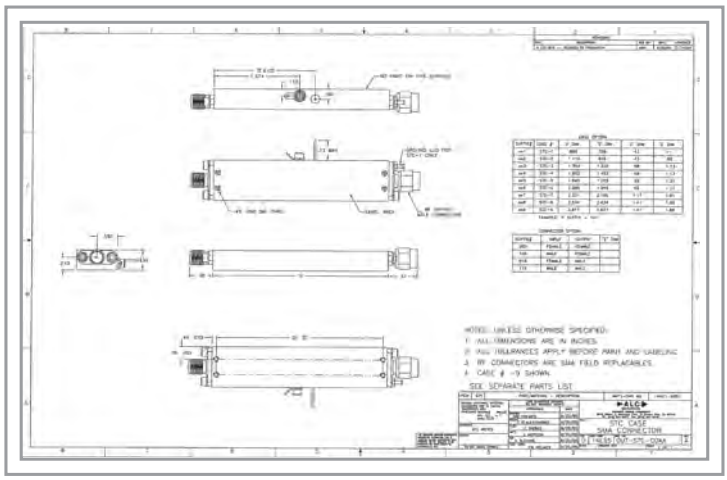
SPC - Outline



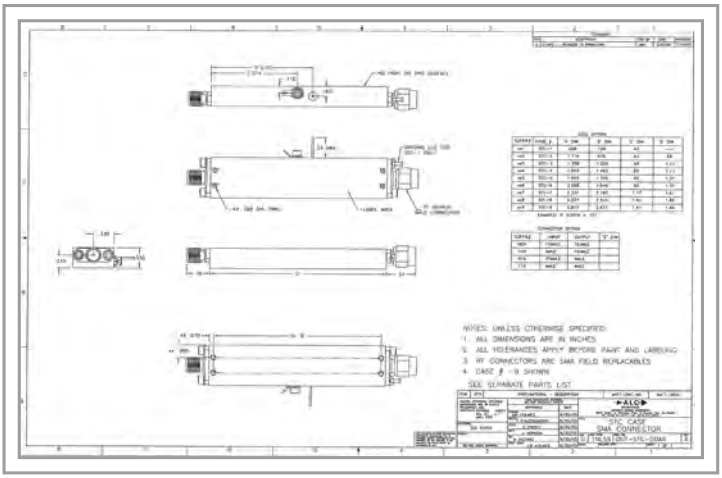
STC-1- Outline



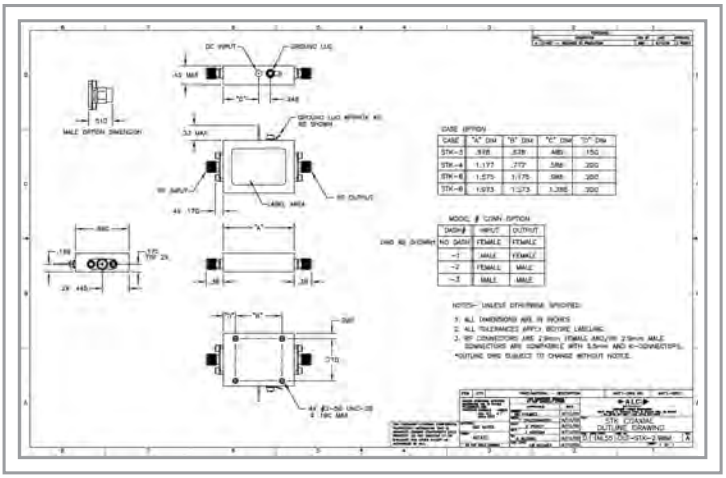
STC-2 - Outline



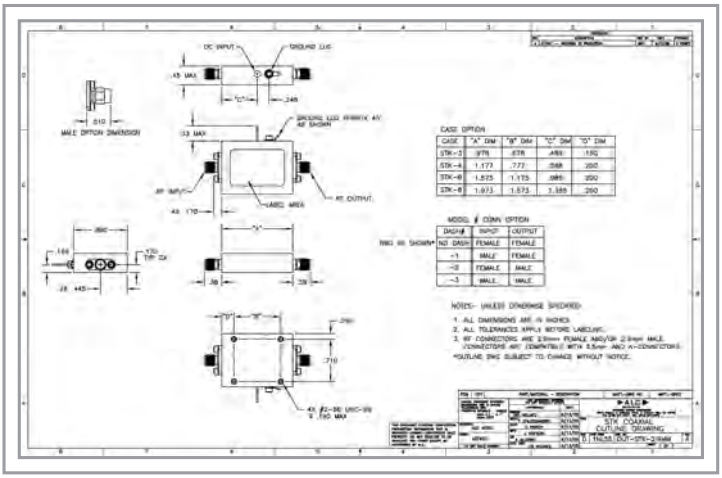
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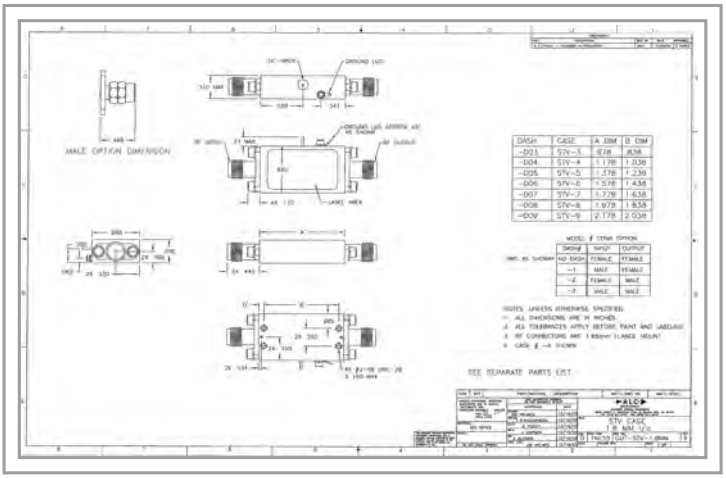
STC-4- Outline



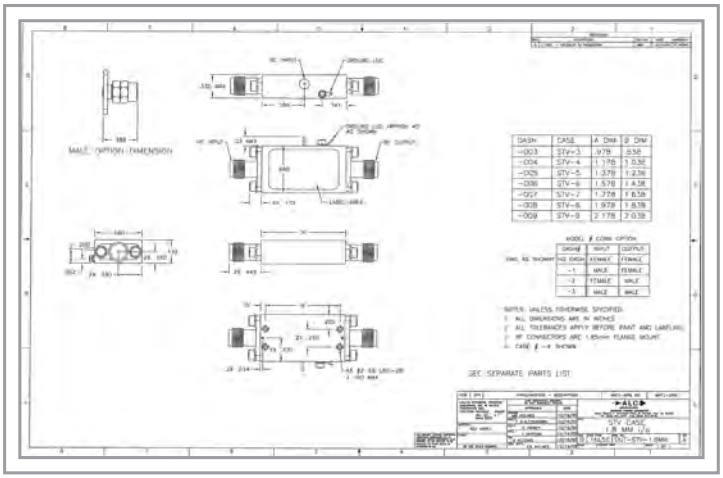
STK-4- Outline



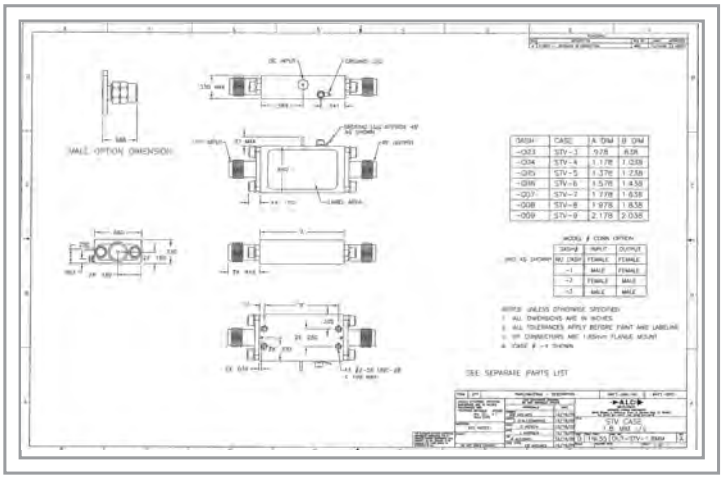
STK-6 - Outline



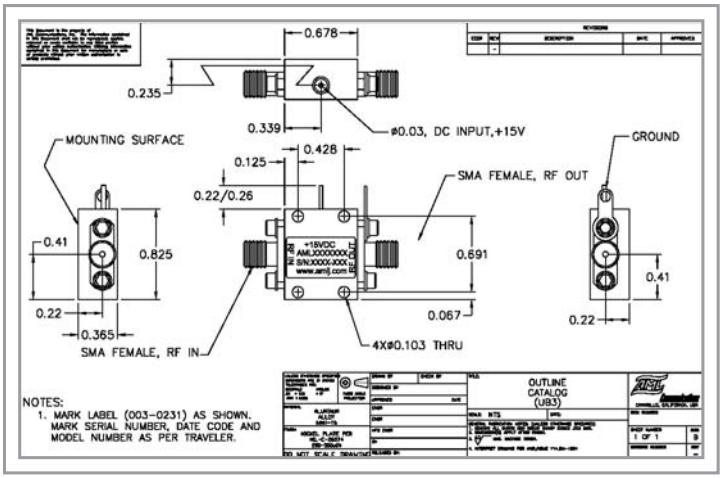
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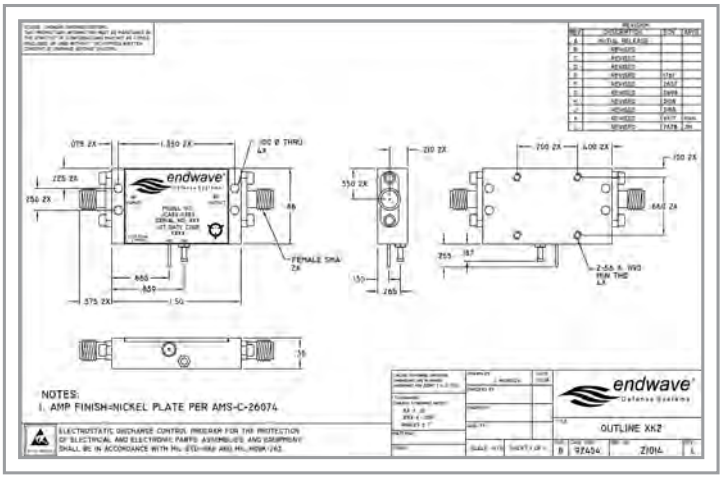
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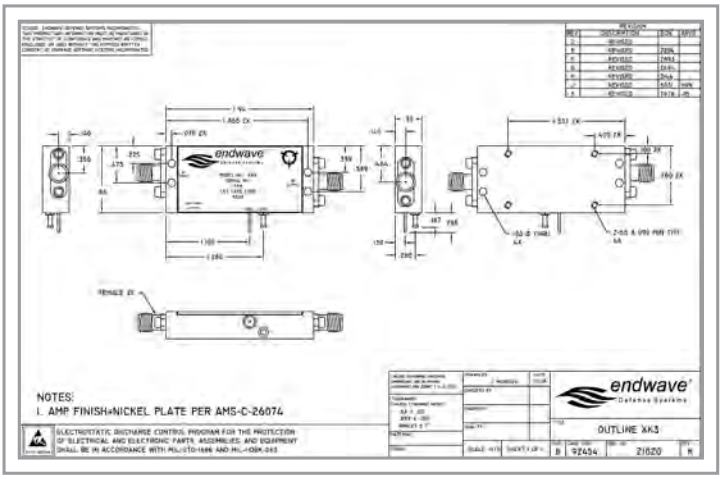
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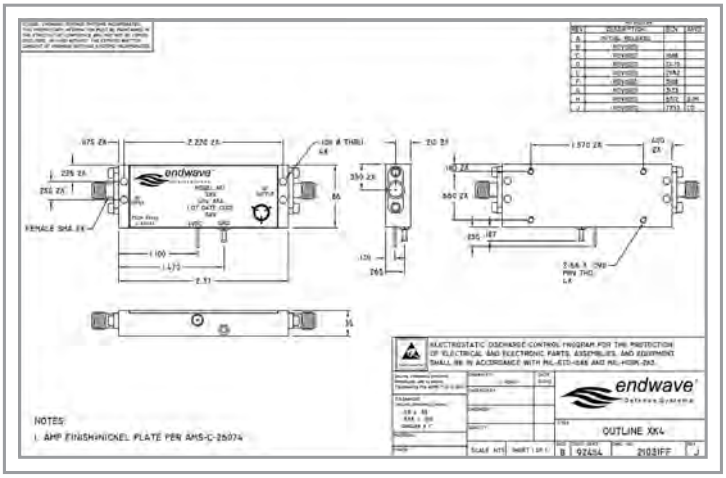
UB3 - Outline



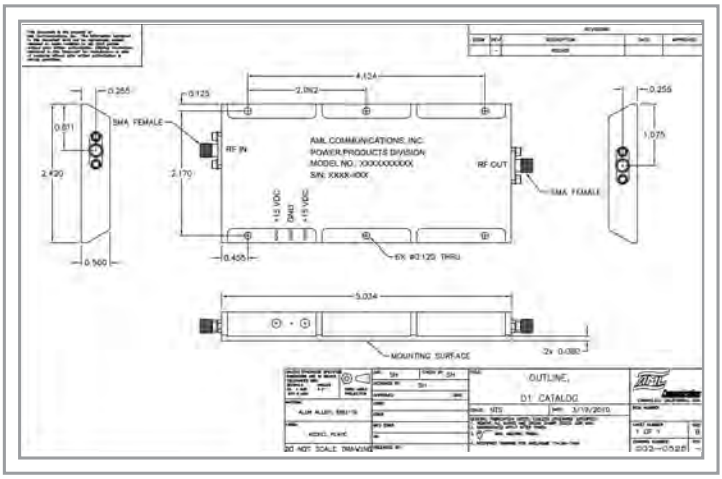
XK2 - Outline



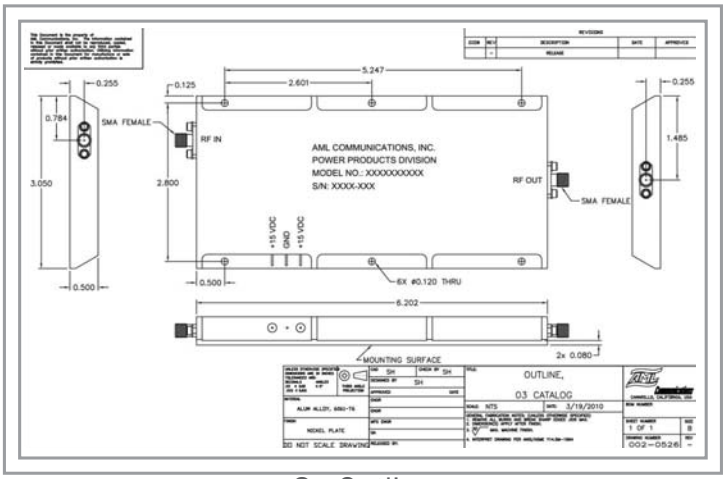
XK3 - Outline



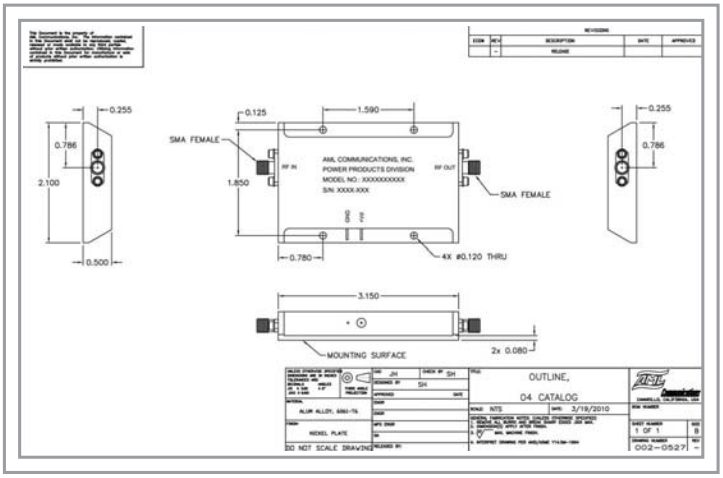
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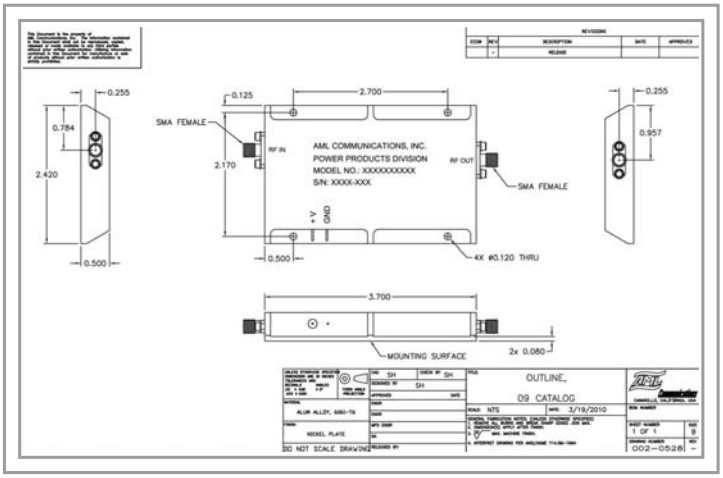
1 - Outline



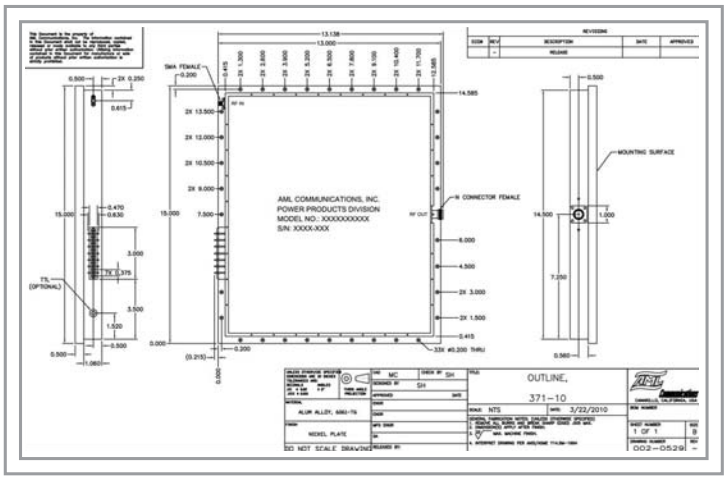
3 - Outline



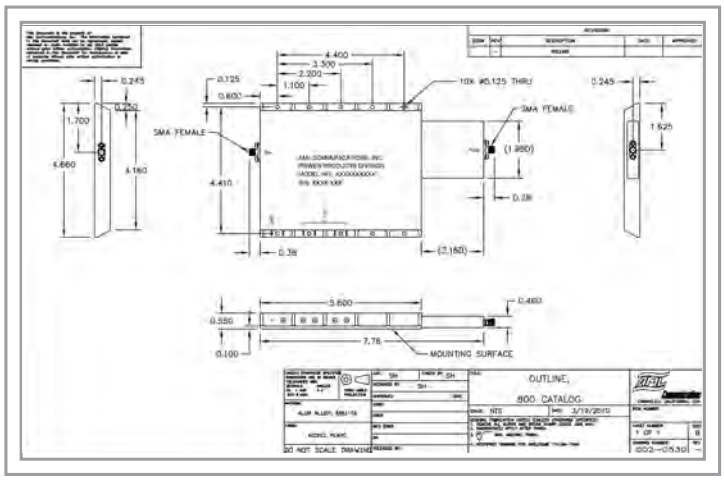
4 - Outline



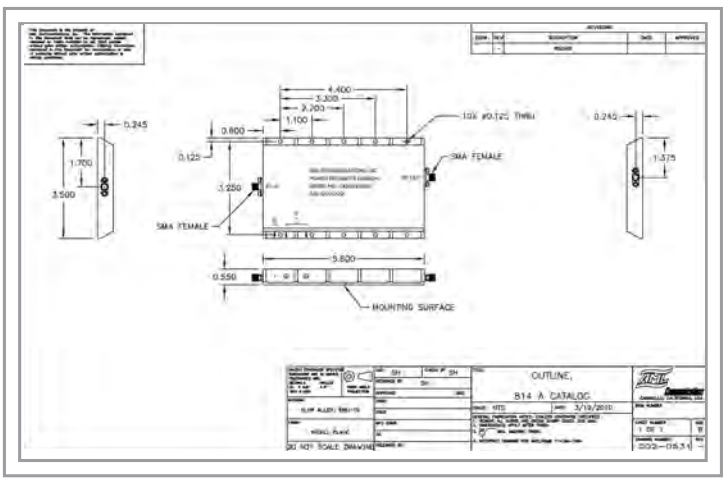
9 - Outline



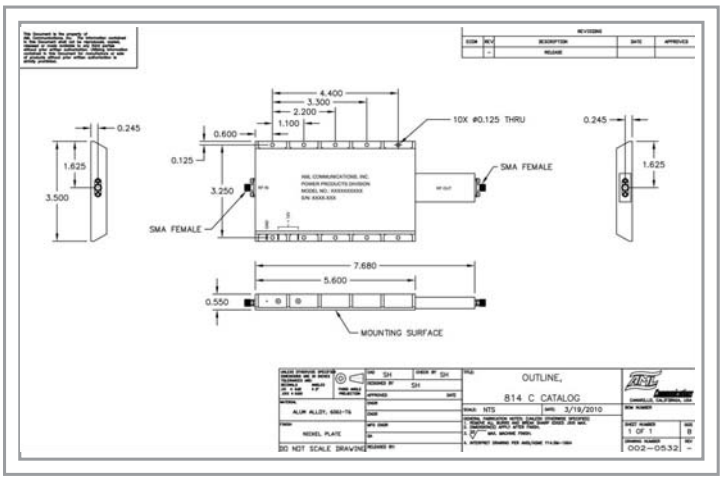
371-10 - Outline



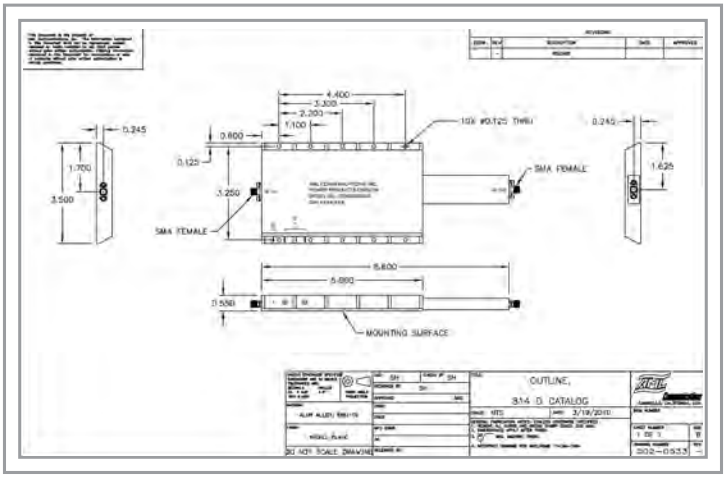
800 - Outline



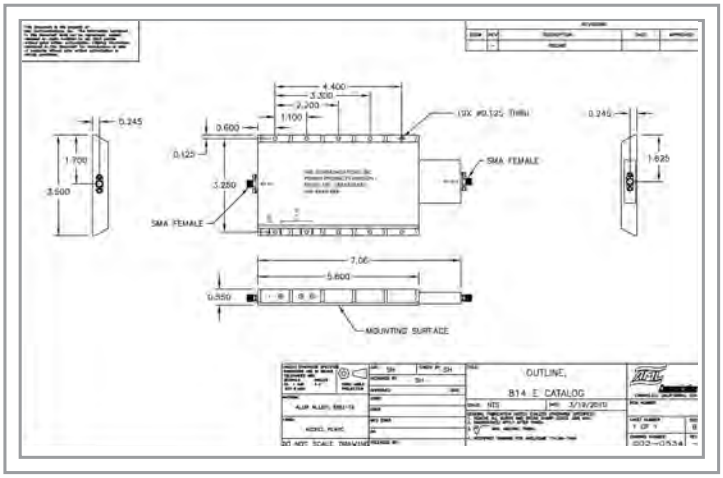
814 A - Outline



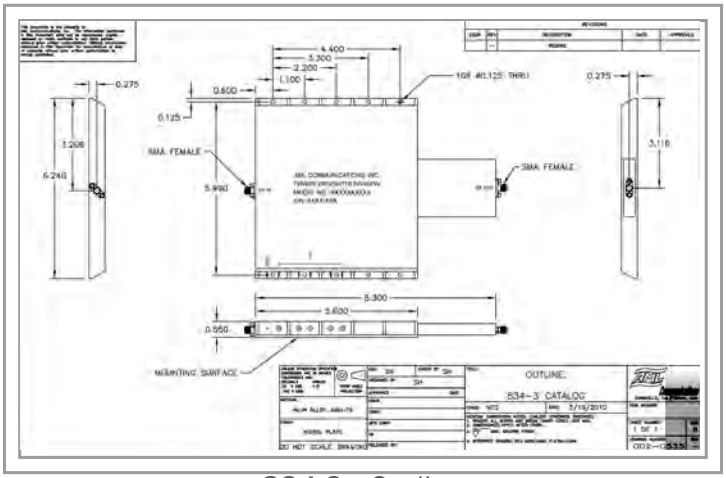
814 C- Outline



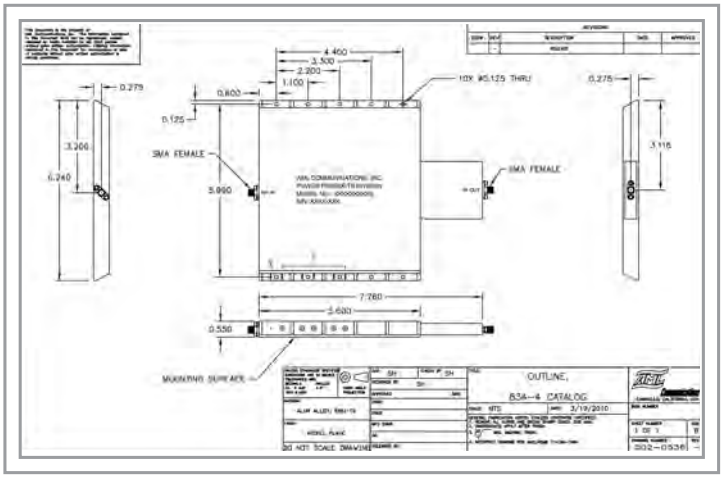
814 D - Outline



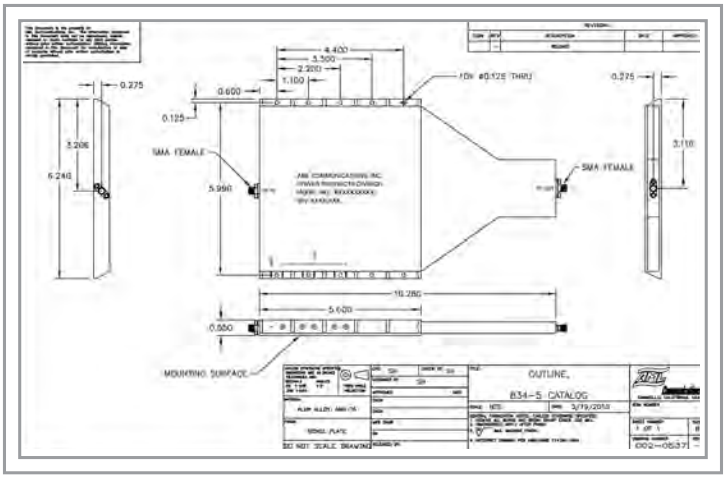
814 E - Outline



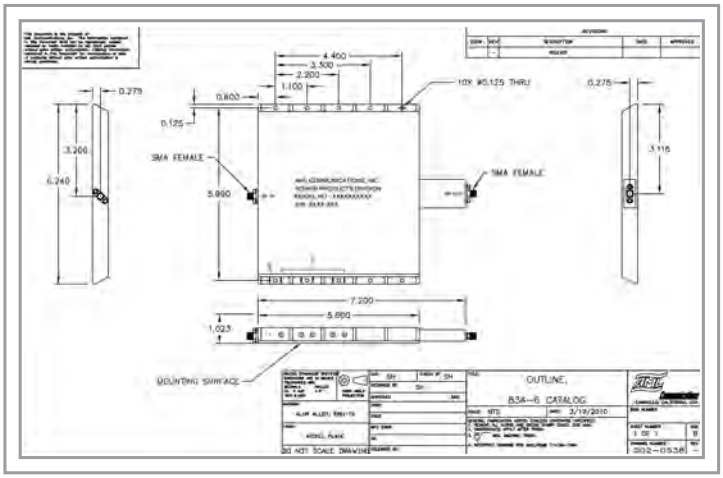
834-3 - Outline



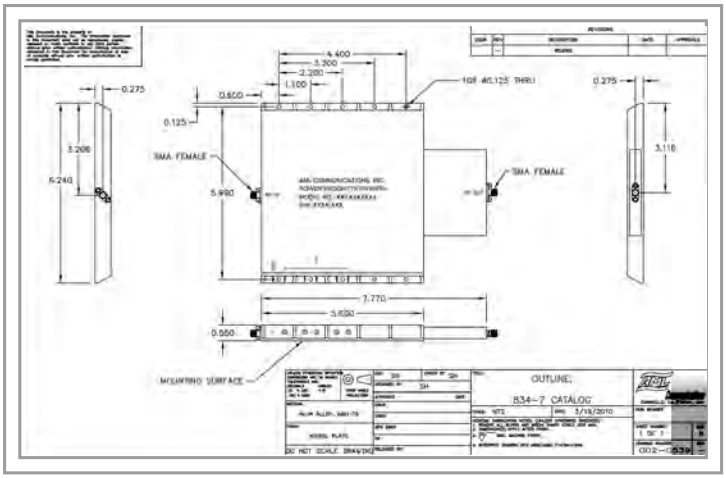
834-4 - Outline



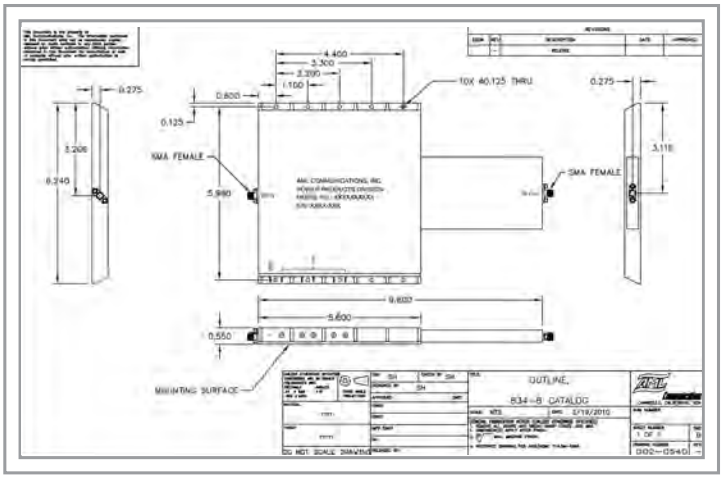
834-5 - Outline



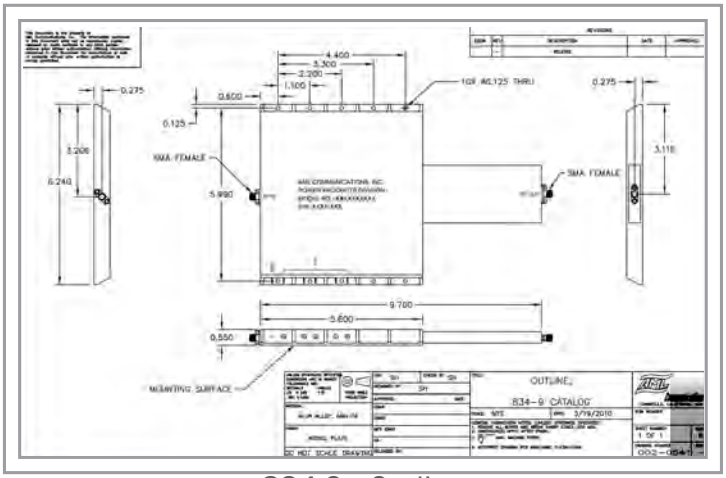
834-6 - Outline



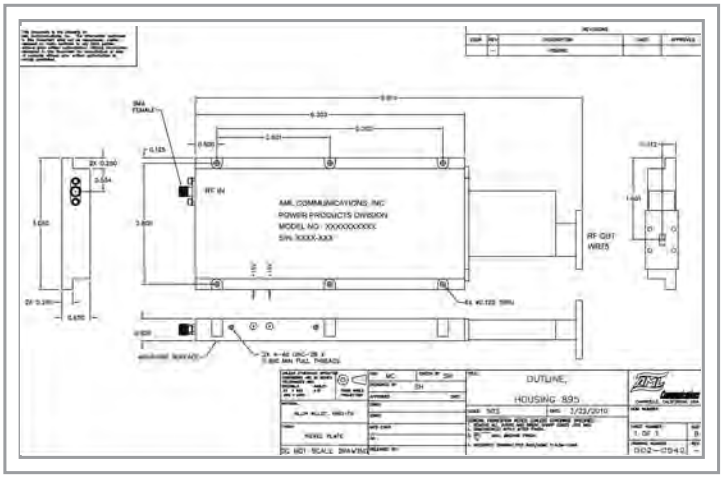
834-7 - Outline



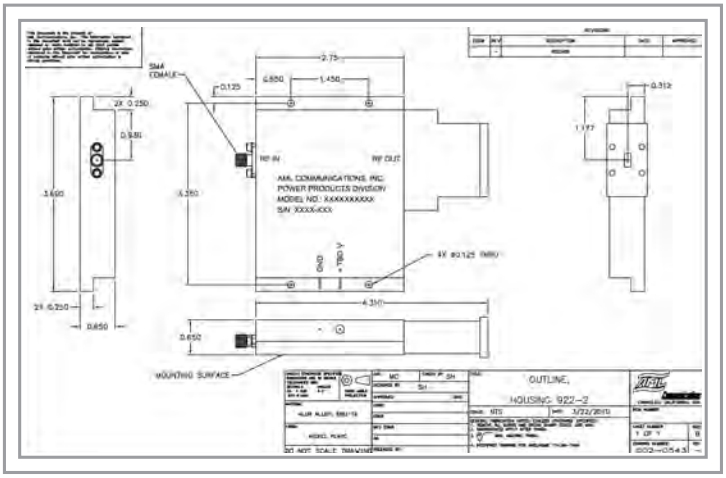
834-8 - Outline



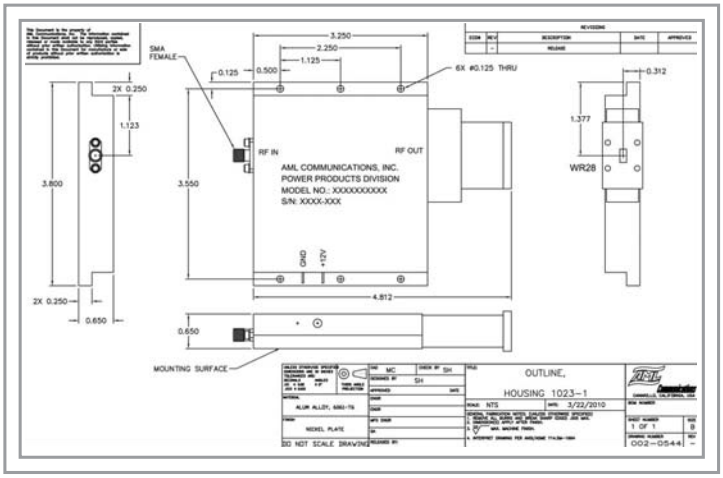
834-9 - Outline



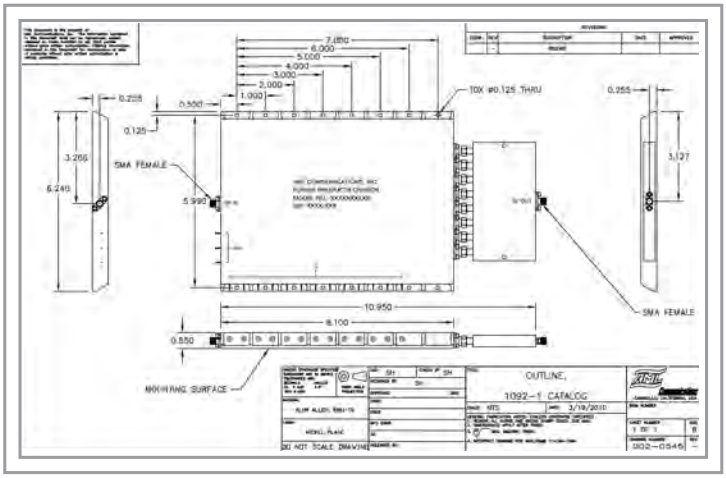
895 - Outline



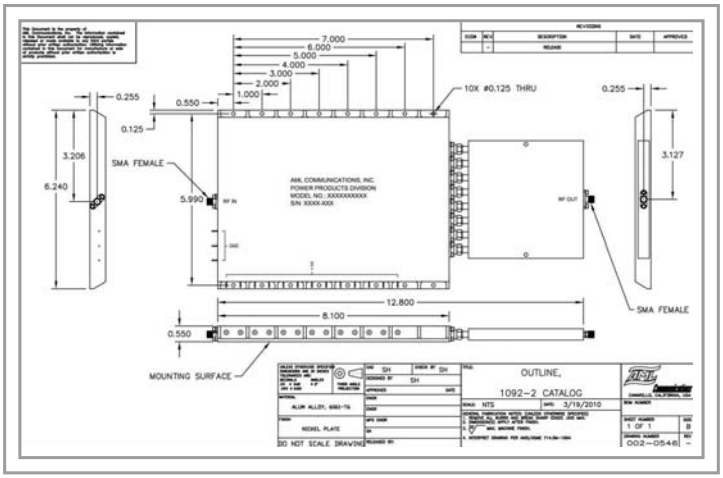
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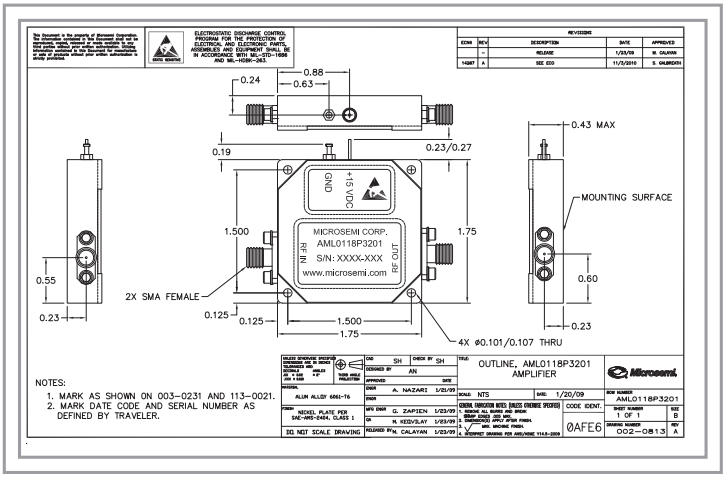
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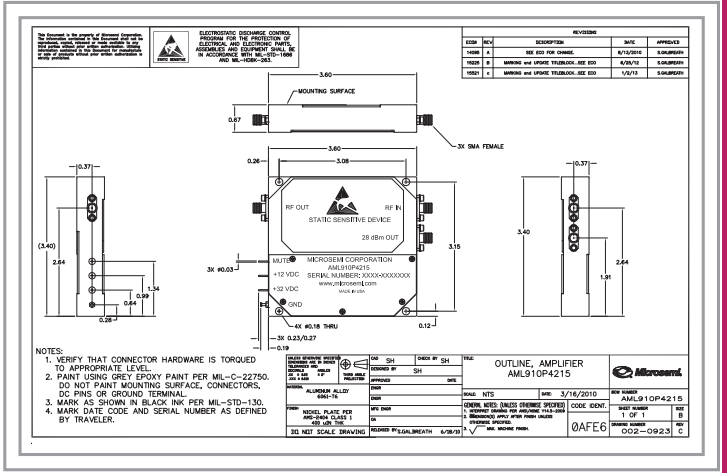
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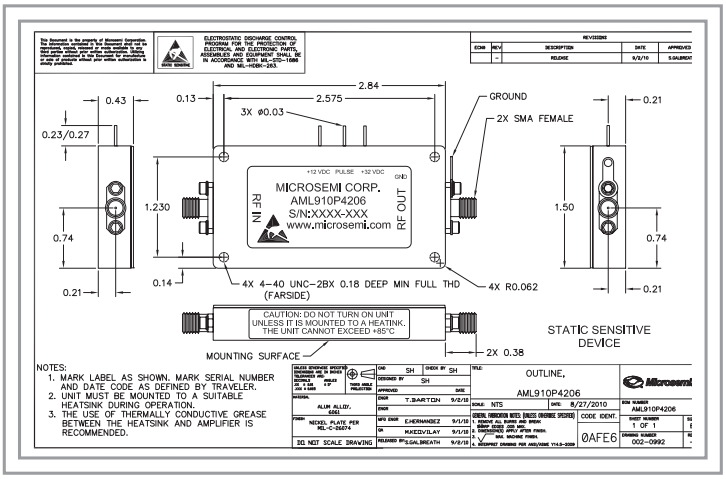
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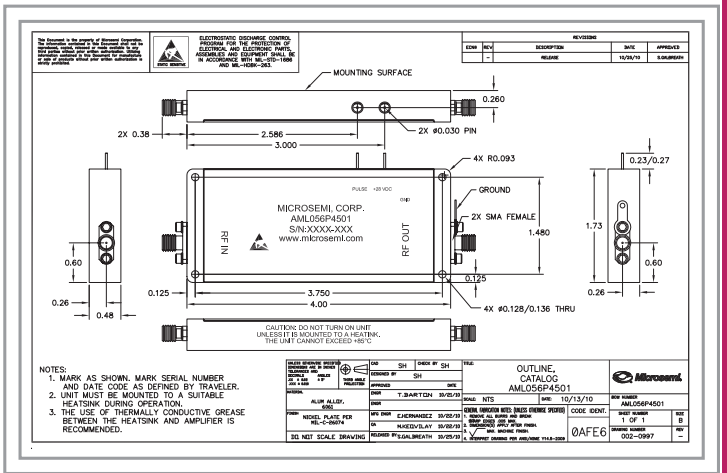
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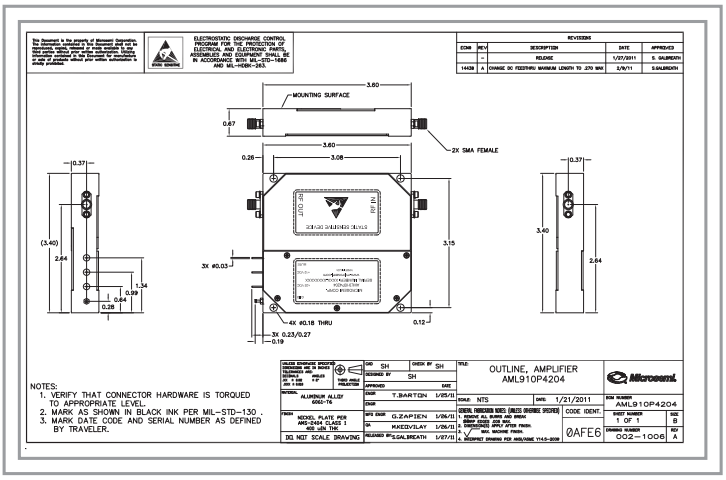
002-0923 - Outline



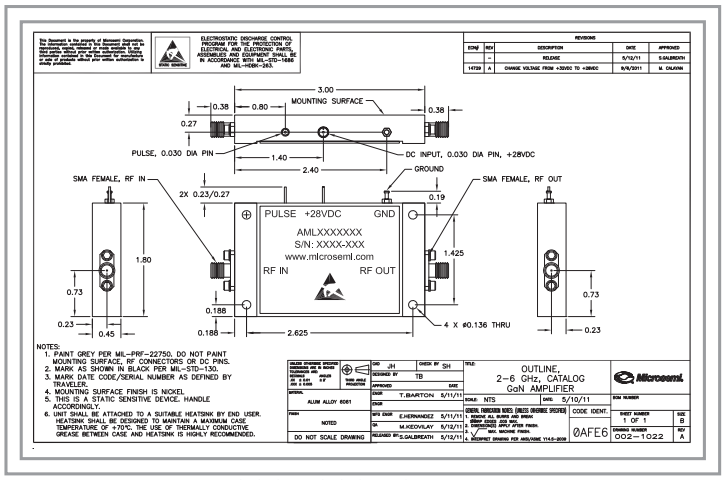
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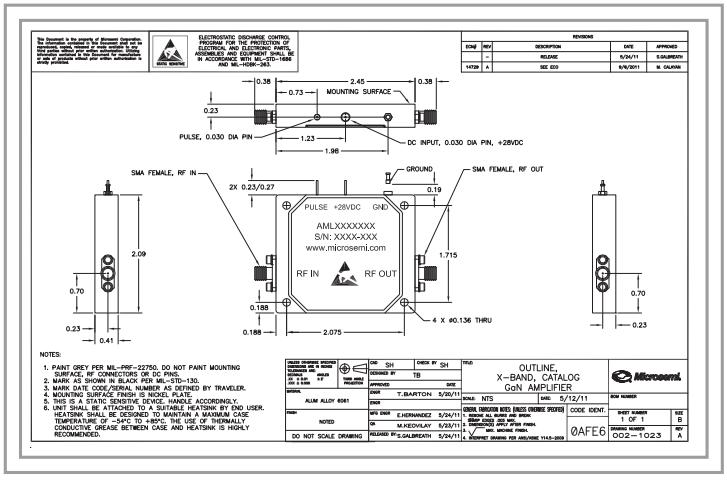
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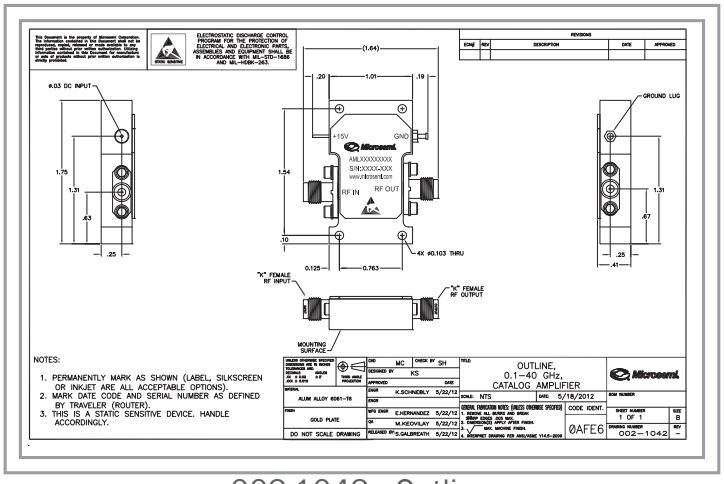
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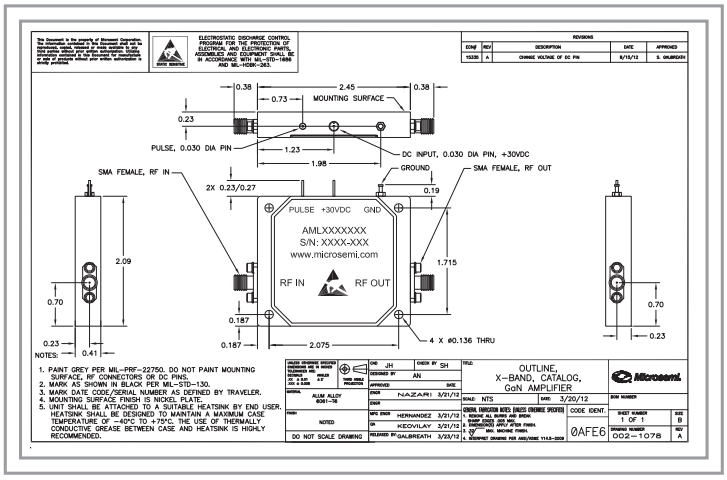
002-1002 - Outline



002-1023 - Outline



002-1042 - Outline



002-1078 - Outline

Application Notes

These application notes and more are available on our website: www.microsemi.com



Phase Noise Application Note

- Low Phase Noise Microwave Amplifiers
- Understanding Phase Noise
- Techniques for Measuring Ultra-Low Phase Noise in Microwave Amplifiers

High IP3, IP2 Application Note

- Guidelines For Effective Two-Tone Intermodulation Distortion Test Systems
- Intermodulation Distortion Cancellation Techniques: A Practical Review
- Suppressing Second Harmonics in Microwave Amplifiers
- Advanced Techniques For Enhanced Two Tone Intermodulation Measurments

Solid-State Power Amplifiers

- High Power Solid-State Amplifiers Provide TWTA Replacement

Microwave-Monolithic-Ceramic-Technology (MMCC)

- Gold Vias Aid Multichip Integration

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