

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
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Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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TELEDYNE
MICROWAVE SOLUTIONS
Everywhereyoulook™

PRELIMINARY

A4C3120

10 TO 3000 MHz SMA CASCADED AMPLIFIER

Typical Values	***A4C3120***
High Gain	***30.0 dB***
Low Noise Figure	***3.4 dB***
High Output Level	***+21.0 dBm***
High Third Order I.P.	***+35 dBm***
High Reverse Isolation	***50 dB***

High Performance Thin Film
Four-stage SMA Package

SPECIFICATIONS*

Parameter		Typical	Guaranteed 0 to 50 °C	Guaranteed -55 to +85 °C
Frequency (Min.)		**5-3000 MHz**	**10-3000 MHz**	**10-3000 MHz**
Small Signal Gain (Min.)		30.0 dB	28.0 dB	27.0 dB
Gain Flatness (Max.)		±0.7 dB	±1.0 dB	±1.2 dB
Noise Figure (Max.)	1.0-3.0 GHz	2.7 dB	3.5 dB	4.0 dB
	0.2-1.0 GHz	3.5 dB	5.0 dB	5.5 dB
SWR (Max.)	Input/Output	1.7:1	1.9:1	2.0:1
Power Output (Min.) @ 1dB comp.		+21.0 dBm	+20.0 dBm	+19.5 dBm
Reverse Isolation		50 dB	—	—
DC Current (Max.)		240 mA	250 mA	260 mA

* Measured in a 50-ohm system at +15 Vdc unless otherwise specified.

INTERMODULATION PERFORMANCE

Typical @ 25 °C	***A4C3120***
Second Order Harmonic Intercept Point	+56 dBm
Second Order Two Tone Intercept Point	+50 dBm
Third Order Two Tone Intercept Point	+31 dBm

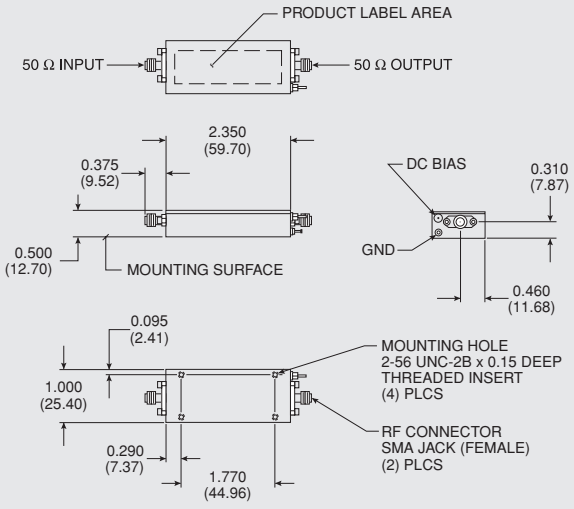
ABSOLUTE MAXIMUM RATINGS

Storage Temperature	-62 to +125 °C
Maximum Case Temperature	+105 °C
Maximum DC Voltage	+17 Volts
Maximum Continuous RF Input Power	+15 dBm
Maximum Short Term Input Power (1 Minute Max.)	100 Milliwatts
Maximum Peak Power (3 µsec Max.)	0.25 Watt
Burn-in Temperature	+85 °C
Thermal Resistance[1] (θjc)	+37 °C/Watt
Junction Temperature Rise Above Case (Tjc)	+66.8 °C

[1] Thermal resistance is based on total power dissipation.

A4C3120

TO-8 Amplifier SMA Case
(three- and four-stage)



DIMENSIONS ARE IN INCHES [MILLIMETERS]

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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