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Coaxial

Amplifier

ZKL-2R5+

50Ω Medium Power 10 to 2500 MHz



Generic photo used for illustration purposes only

CASE STYLE: BY493

Connectors	Model
SMA	ZKL-2R5+

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Features

- wideband, 10 to 2500 MHz
- high IP3, +31 dBm typ.
- low noise, 5 dB typ.
- rugged, shielded case
- protected by US Patent, 6,943,629

Applications

- communication systems
- cellular
- PCS
- GSM/ISM

Amplifier Electrical Specifications

MODEL NO.	FREQUENCY (MHz)		GAIN (dB)			MAXIMUM POWER (dBm)			DYNAMIC RANGE		VSWR (:1) Typ.		DC POWER	
						Output (1 dB Compr.)								
	f_L	f_U	Typ.	Min.	Flatness Max.	L	U	Input (no damage)	NF (dB) Typ.	IP3 (dBm) Typ.	In	Out	Volt (V) Nom.	Current (mA) Max.
ZKL-2R5+	10	2500	30	26	±1.5	+13	+11	+13	5.0	+31	1.4	1.4	12	120

Open load is not recommended, potentially can cause damage.
With no load derate max input power by 20 dB

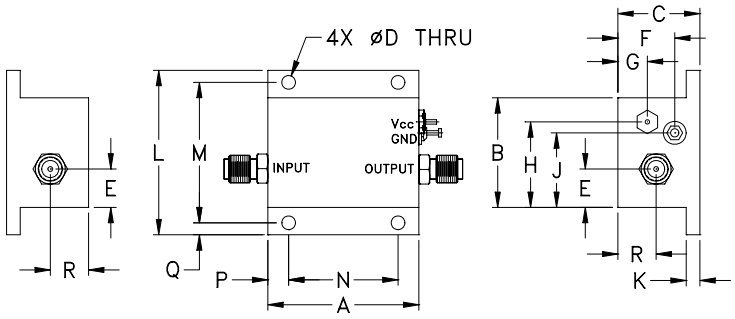
L= low range (f_L to $f_U/2$) U= upper range ($f_U/2$ to f_U)

Maximum Ratings

Operating Temperature	-40°C to 75°C
Storage Temperature	-55°C to 100°C
DC Voltage	+13V Max.

Permanent damage may occur if any of these limits are exceeded.

Outline Drawing



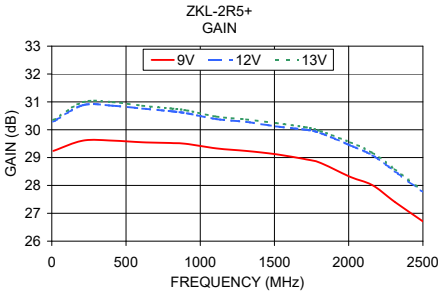
Outline Dimensions (inch / mm)

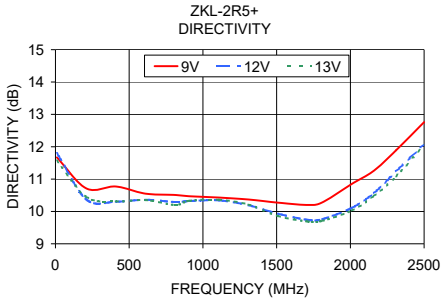
A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	wt
1.38	1.00	.75	.125	.35	.52	.27	.76	.66	.125	1.50	1.281	1.000	.19	.11	.35	grams
35.05	25.40	19.05	3.18	8.89	13.21	6.86	19.30	16.76	3.18	38.10	32.54	25.40	4.83	2.79	8.89	40

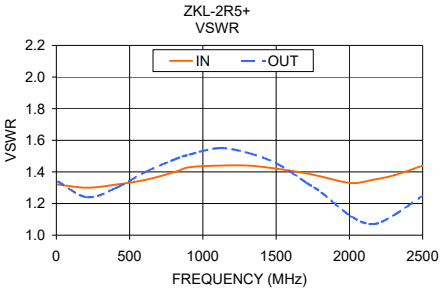
Notes

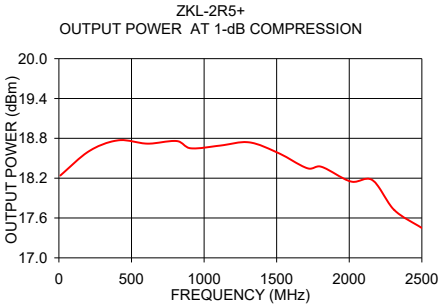
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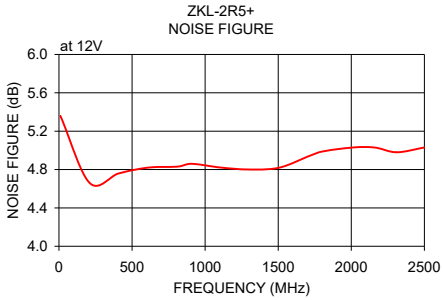
FREQUENCY (MHz)	GAIN (dB)			DIRECTIVITY (dB)			VSWR (:1)		NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)
	9V	12V	13V	9V	12V	13V	IN	OUT	12V	12V
10.00	29.24	30.29	30.35	11.67	11.80	11.57	1.32	1.34	5.36	18.24
210.00	29.61	30.88	30.99	10.71	10.37	10.45	1.30	1.24	4.66	18.61
410.00	29.61	30.86	30.99	10.77	10.30	10.31	1.32	1.30	4.76	18.77
610.00	29.55	30.76	30.86	10.55	10.36	10.35	1.35	1.40	4.82	18.72
810.00	29.52	30.66	30.76	10.51	10.29	10.20	1.40	1.48	4.83	18.76
910.00	29.49	30.59	30.69	10.47	10.32	10.33	1.43	1.51	4.86	18.65
1110.00	29.33	30.38	30.47	10.43	10.34	10.36	1.44	1.55	4.82	18.69
1310.00	29.24	30.28	30.37	10.37	10.19	10.21	1.44	1.52	4.80	18.74
1510.00	29.12	30.12	30.24	10.27	9.93	9.86	1.42	1.45	4.82	18.58
1710.00	28.94	30.00	30.09	10.20	9.74	9.69	1.39	1.33	4.94	18.35
1810.00	28.81	29.88	29.95	10.28	9.76	9.71	1.37	1.27	4.99	18.37
2010.00	28.31	29.44	29.55	10.85	10.11	10.03	1.33	1.12	5.03	18.15
2160.00	28.01	29.08	29.17	11.26	10.57	10.48	1.35	1.07	5.03	18.17
2310.00	27.41	28.51	28.59	11.89	11.24	11.09	1.38	1.13	4.98	17.72
2500.00	26.71	27.76	27.82	12.76	12.08	12.05	1.44	1.25	5.03	17.45











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