

Coaxial Amplifier

ZKL-1R5+

50Ω Medium Power 10 to 1500 MHz

Features

- wideband, 10 to 1500 MHz
- high IP3, +31 dBm typ.
- low noise, 3 dB typ.
- high gain, 40 dB typ.
- protected by US Patent, 6,943,629

Applications

- communication systems
- cellular
- satellite distribution
- GSM/ISM



CASE STYLE: BY493
Connectors Model
SMA ZKL-1R5+

+RoHS Compliant

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

Amplifier Electrical Specifications at 25°C

MODEL NO.	FREQUENCY (MHz)		GAIN (dB)			MAXIMUM POWER (dBm)			DYNAMIC RANGE		VSWR (:1) Typ.		DC POWER	
	f_L	f_U	Typ.	Min.	Flatness Max.	Min. Output (1 dB Compr.)		Input (no damage)	NF (dB) Typ.	IP3 (dBm) Typ.	In	Out	Volt (V) Nom.	Current (mA) Max.
ZKL-1R5+	10	1500	40	36	±1.2	+15	+15	+13	3.0	+31	1.4	1.6	12	115

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

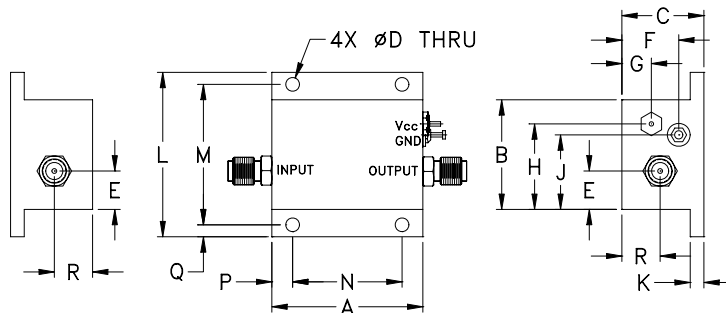
Operating Temperature -40°C to 75°C

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	.78	.68	.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	19.81	17.27	3.18	38.10	32.54	25.40	4.83	2.79	8.89	40

Notes

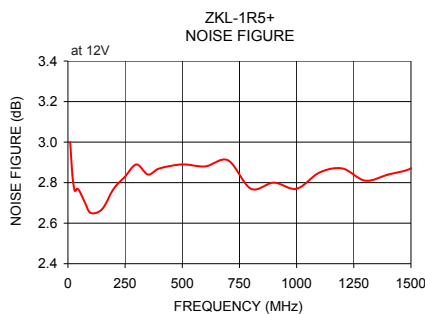
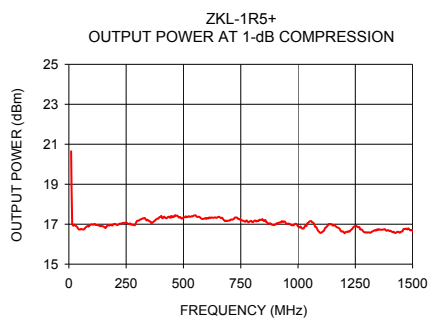
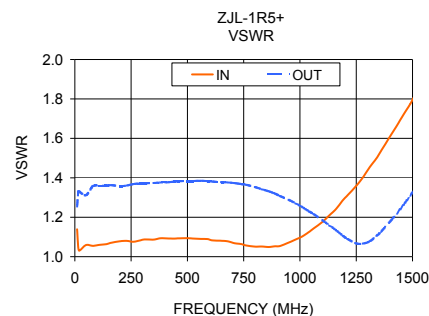
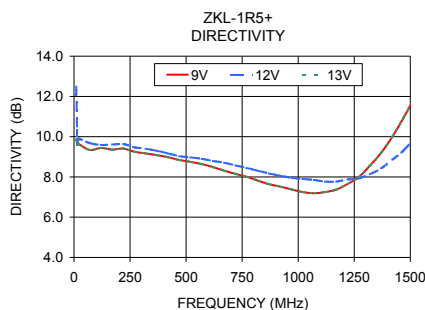
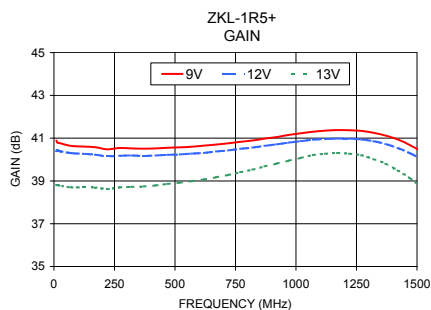
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FREQUENCY (MHz)	GAIN (dB)			DIRECTIVITY (dB)			VSWR (:1)		NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)
	9V	12V	13V	9V	12V	13V	IN	OUT		
10.00	40.89	40.39	38.82	9.87	12.48	9.87	1.14	1.26	3.00	16.90
100.00	40.61	40.27	38.69	9.36	9.62	9.36	1.06	1.36	2.65	16.80
250.00	40.51	40.18	38.67	9.38	9.44	9.38	1.08	1.37	2.83	16.90
350.00	40.52	40.18	38.74	9.18	9.39	9.18	1.09	1.37	2.84	17.02
500.00	40.55	40.25	38.88	8.75	8.95	8.75	1.09	1.38	2.89	17.18
600.00	40.62	40.31	39.04	8.54	8.82	8.54	1.09	1.38	2.88	17.17
700.00	40.73	40.40	39.23	8.21	8.63	8.21	1.07	1.37	2.91	17.10
800.00	40.87	40.54	39.48	7.89	8.36	7.89	1.05	1.35	2.77	17.07
900.00	41.03	40.68	39.76	7.56	8.17	7.56	1.05	1.31	2.80	17.05
1000.00	41.20	40.83	40.04	7.29	7.95	7.29	1.10	1.26	2.77	17.04
1100.00	41.33	40.96	40.23	7.24	7.79	7.24	1.18	1.18	2.85	16.79
1200.00	41.39	40.99	40.29	7.50	7.80	7.50	1.30	1.10	2.87	16.80
1300.00	41.30	40.90	40.11	8.30	8.05	8.30	1.44	1.07	2.81	16.68
1400.00	41.02	40.62	39.62	9.66	8.64	9.66	1.61	1.18	2.84	16.70
1500.00	40.48	40.12	38.85	11.54	9.72	11.54	1.80	1.33	2.87	16.49
1500.00	40.48	40.12	38.85	11.54	9.72	11.54	0.00	0.00	2.87	16.49



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