

Coaxial Amplifier

ZKL-1R5+ 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	Price	Qty.
SMA	ZKL-1R5(+)	\$149.95 ea.	(1-9)

**+ RoHS compliant in accordance
with EU Directive (2002/95/EC)**

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

Amplifier Electrical Specifications

MODEL NO.	FREQUENCY (MHz)		GAIN (dB)			MAXIMUM POWER (dBm)			DYNAMIC RANGE		VSWR (:1) Typ.		DC POWER	
	f_L	f_U	Typ.	Min.	Flatness Max.	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

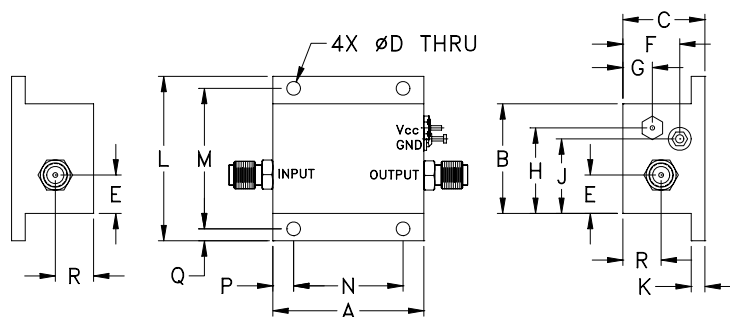
Operating Temperature -40°C to 75°C

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

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ISO 9001 ISO 14001 AS 9100 CERTIFIED

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IF/RF MICROWAVE COMPONENTS

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp.

For detailed performance specs
& shopping online see web site

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Typical Performance Data/Curves

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	37.59	40.52	40.79	8.99	9.13	9.00	1.37	1.29	3.01	17.61
110.00	37.86	41.08	41.41	8.20	7.84	8.05	1.33	1.19	2.83	18.26
260.00	37.87	41.10	41.44	8.23	7.64	7.64	1.31	1.23	2.88	18.39
360.00	37.79	40.98	41.32	8.07	7.44	7.66	1.30	1.31	2.94	18.49
510.00	37.79	40.90	41.22	8.04	7.49	7.44	1.31	1.44	2.97	18.63
610.00	37.75	40.77	41.08	8.08	7.27	7.57	1.31	1.48	3.04	18.76
710.00	37.68	40.62	40.91	7.99	7.39	7.41	1.32	1.57	3.05	18.85
810.00	37.63	40.50	40.70	8.05	7.27	7.43	1.34	1.61	3.03	18.82
910.00	37.56	40.33	40.58	7.93	7.36	7.45	1.35	1.66	3.01	18.84
1010.00	37.41	40.08	40.30	7.91	7.47	7.34	1.35	1.69	3.01	18.82
1110.00	37.24	39.84	40.05	8.01	7.32	7.32	1.39	1.66	2.99	18.78
1210.00	37.07	39.65	39.86	8.19	7.38	7.27	1.41	1.66	2.98	18.76
1310.00	36.94	39.43	39.64	8.16	7.45	7.28	1.43	1.58	2.99	18.71
1410.00	36.72	39.21	39.44	8.27	7.08	6.95	1.48	1.52	3.02	18.57
1500.00	36.48	38.93	39.15	8.20	7.23	6.97	1.49	1.46	3.06	18.66

