

# Coaxial Amplifier

## ZKL-2R7+

50Ω Medium Power 10 to 2700 MHz

### Features

- wideband, 10 to 2700 MHz
- high IP3, +30 dBm typ
- rugged shielded case
- low noise, 5 dB typ.
- protected by US Patent, 6,943,629

### Applications

- communication systems
- cellular
- PCS
- GSM/ISM



CASE STYLE: BY493

Connectors	Model	Price	Qty.
SMA	ZKL-2R7+	\$149.95 ea.	(1-9)

### +RoHS Compliant

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-2R7+	10	2700	24	20	±0.7	+13	+11	+13	5.0	+30	1.3	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

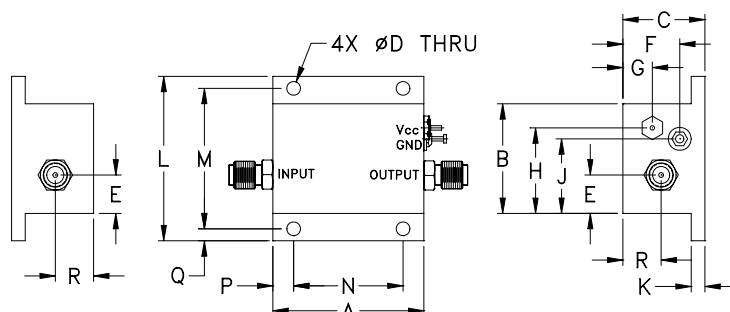
Operating Temperature -40°C to 75°C

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	.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

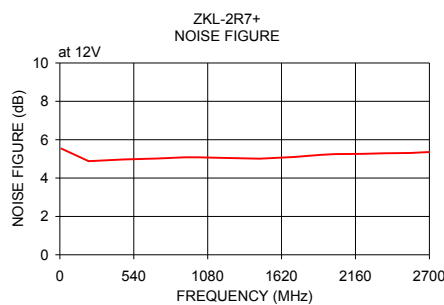
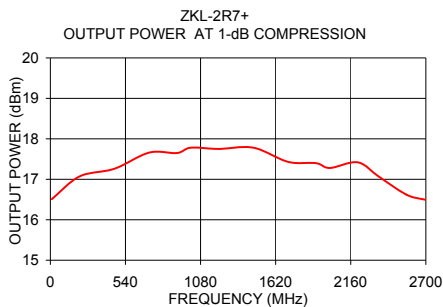
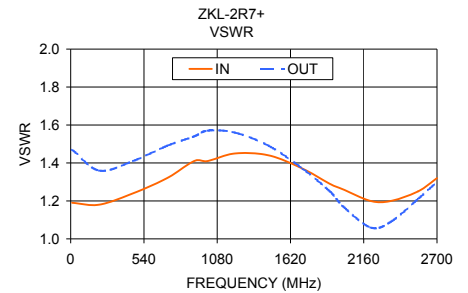
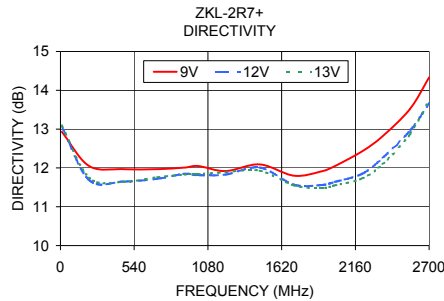
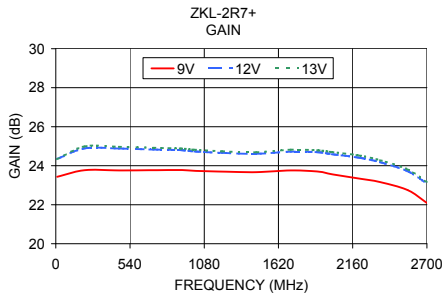
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FREQUENCY (MHz)	GAIN (dB)			DIRECTIVITY (dB)			VSWR (:1)		NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)
	9V	12V	13V	9V	12V	13V	IN	OUT		
10.00	23.43	24.35	24.33	12.93	13.06	13.09	1.19	1.47	5.54	16.51
210.00	23.77	24.89	24.99	12.05	11.69	11.75	1.18	1.36	4.88	17.07
460.00	23.76	24.88	24.97	11.97	11.65	11.64	1.24	1.41	4.97	17.26
710.00	23.77	24.83	24.92	11.97	11.72	11.76	1.32	1.49	5.02	17.66
910.00	23.78	24.80	24.88	12.01	11.85	11.83	1.41	1.54	5.08	17.65
1010.00	23.74	24.73	24.82	12.05	11.81	11.84	1.41	1.57	5.08	17.78
1210.00	23.70	24.66	24.74	11.92	11.83	11.89	1.45	1.56	5.05	17.75
1460.00	23.67	24.61	24.69	12.09	12.01	11.93	1.44	1.49	5.01	17.78
1710.00	23.76	24.72	24.82	11.80	11.57	11.55	1.37	1.37	5.10	17.43
1910.00	23.70	24.69	24.79	11.91	11.56	11.48	1.29	1.25	5.21	17.40
2010.00	23.56	24.59	24.70	12.05	11.64	11.55	1.26	1.17	5.25	17.28
2210.00	23.34	24.41	24.52	12.43	11.85	11.73	1.20	1.06	5.26	17.42
2360.00	23.16	24.18	24.28	12.82	12.26	12.10	1.20	1.09	5.29	17.07
2560.00	22.75	23.72	23.81	13.52	12.96	12.87	1.25	1.21	5.31	16.62
2700.00	22.09	23.09	23.16	14.33	13.66	13.74	1.32	1.30	5.36	16.49



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