

# Coaxial Amplifier

## ZJL-7G+

50Ω Low Power 20 to 7000 MHz

### Features

- ultra wideband, 20 to 7000 MHz
- compact rugged case, 1.07"x0.61" (including mounting bracket)
- protected by US Patent, 6,943,629

### Applications

- communications systems
- radar
- instrumentation
- laboratory use



CASE STYLE: BW459

Connectors	Model
SMA	ZJL-7G-S+

**+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 <sup>1</sup> RANGE		VSWR (:1) Typ.		DC POWER	
	$f_L$	$f_U$	Typ.	Min.	Flatness <sup>1</sup> Typ.	Min. Output (1 dB Compr.)		Input (no damage)	NF (dB) Typ.	IP3 (dBm) Typ.	In	Out	Volt (V) Nom.	Current (mA) Max.
ZJL-7G+	20	7000	10	7.5	±1.5	+8	+8.5	+15	5.0	+24	1.5	1.5	12	50

1. Flatness specified to 0.75  $f_U$ , dynamic range at 2 GHz.

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

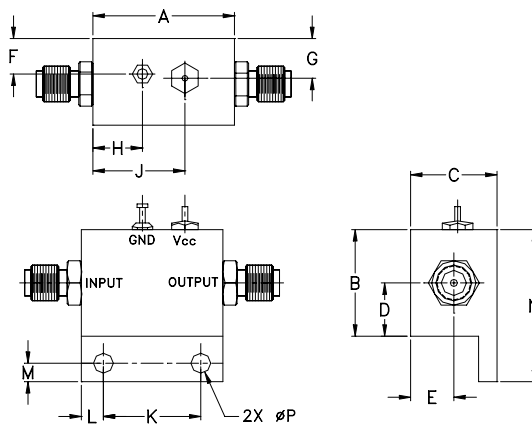
Operating Temperature -40°C to 75°C

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	wt
1.00	.75	.61	.38	.29	.25	.26	.35	.65	.688	.156	.13	1.07	.140	grams
25.40	19.05	15.49	9.65	7.37	6.35	6.60	8.89	16.51	17.48	3.96	3.30	27.18	3.56	25

### Notes

A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

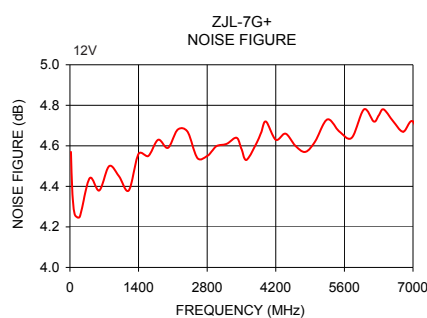
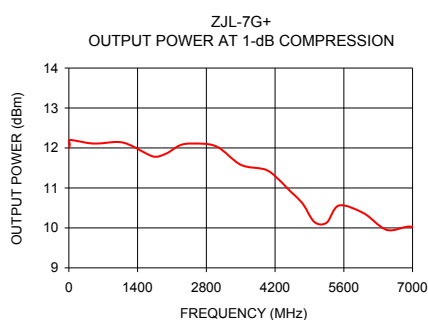
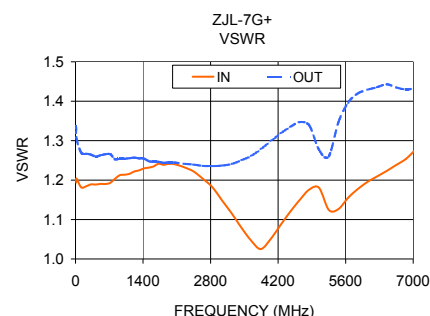
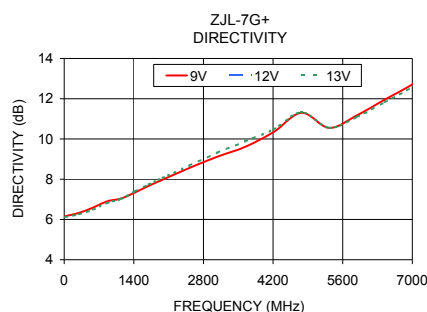
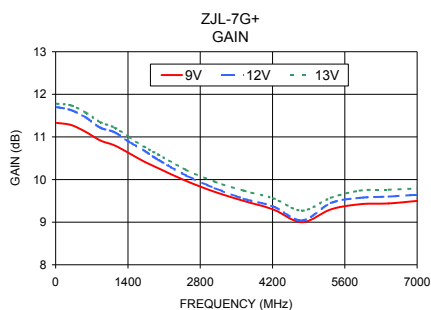
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FREQUENCY (MHz)	GAIN (dB)			DIRECTIVITY (dB)			VSWR (:1)		NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)
	9V	12V	13V	9V	12V	13V	IN	OUT		
20.00	11.33	11.70	11.78	6.16	6.05	6.12	1.20	1.31	4.56	12.24
600.00	11.11	11.46	11.55	6.58	6.55	6.52	1.19	1.27	4.41	12.15
1200.00	10.77	11.07	11.18	7.09	7.08	7.11	1.22	1.26	4.39	11.88
2000.00	10.26	10.46	10.58	7.96	8.11	8.06	1.24	1.25	4.58	11.88
2400.00	10.02	10.17	10.30	8.46	8.61	8.62	1.23	1.24	4.65	12.07
2900.00	9.79	9.88	10.03	8.90	9.12	9.13	1.17	1.24	4.57	12.13
3500.00	9.55	9.61	9.79	9.50	9.69	9.72	1.07	1.25	4.58	11.64
3900.00	9.41	9.46	9.65	9.95	10.14	10.11	1.03	1.28	4.67	11.47
4400.00	9.24	9.29	9.50	10.61	10.70	10.68	1.11	1.33	4.68	11.14
5000.00	8.76	8.75	9.04	11.89	11.84	11.76	1.19	1.30	4.61	10.38
5500.00	9.42	9.56	9.72	10.63	10.66	10.56	1.13	1.37	4.66	10.50
6000.00	9.43	9.58	9.75	11.30	11.39	11.27	1.19	1.43	4.75	10.37
6300.00	9.44	9.59	9.76	11.78	11.74	11.61	1.21	1.44	4.77	10.11
6600.00	9.46	9.60	9.78	12.16	12.13	12.01	1.24	1.45	4.73	9.69
7000.00	9.51	9.64	9.80	12.71	12.68	12.63	1.27	1.43	4.69	9.99



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