

# 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



Generic photo used for illustration purposes only

CASE STYLE: BW459  
 Connectors Model  
 SMA ZJL-7G+

**+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

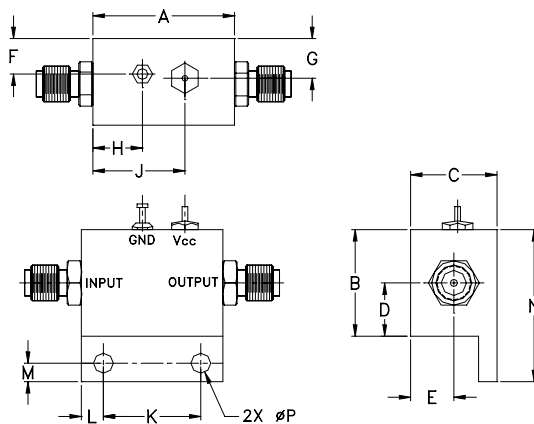
Operating Temperature -40°C to 75°C

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

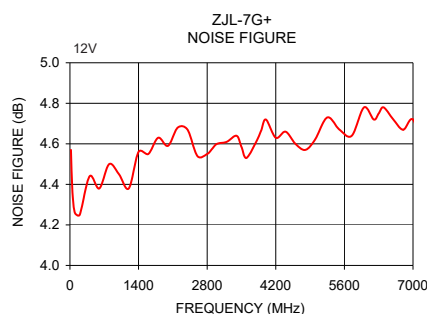
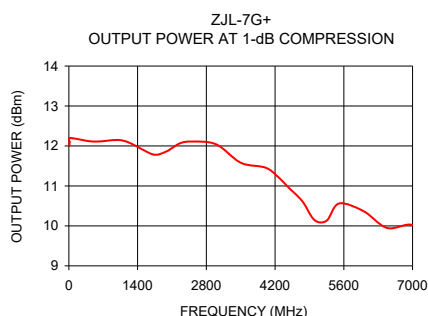
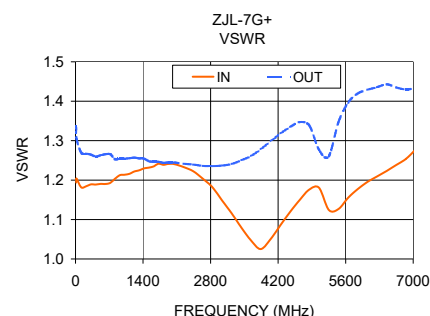
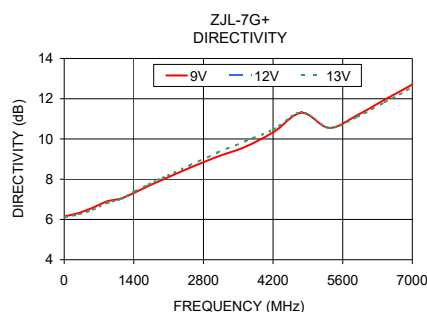
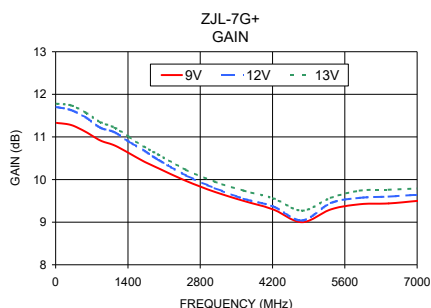
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FREQUENCY (MHz)	GAIN (dB)			DIRECTIVITY (dB)			VSWR (:1)		NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)
	9V	12V	13V	9V	12V	13V	IN	OUT		
20.00	11.33	11.70	11.78	6.16	6.05	6.12	1.20	1.31	4.56	12.24
600.00	11.11	11.46	11.55	6.58	6.55	6.52	1.19	1.27	4.41	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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