

Coaxial Amplifier

50Ω Low Power 20 to 6000 MHz

ZJL-6G+



Generic photo used for illustration purposes only

CASE STYLE: BW459
 Connectors Model
 SMA ZJL-6G+

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

Features

- ultra wideband, 20 to 6000 MHz
- compact rugged case, 1.07"x 0.61" (including mounting bracket)
- protected by US Patent, 6,943,629

Applications

- communications systems
- radar
- instrumentation
- laboratory use

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 ¹ Typ.	Output (1 dB Compr.)		Input (no damage)	NF (dB) Typ.	IP3 (dBm) Typ.	In	Out	Volt (V) Nom.	Current (mA) Max.
ZJL-6G+	20	6000	13	10	±1.6	+9	+10	+15	4.5	+24	1.5	1.4	12	50

1. Flatness specified to 0.75 fU, 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

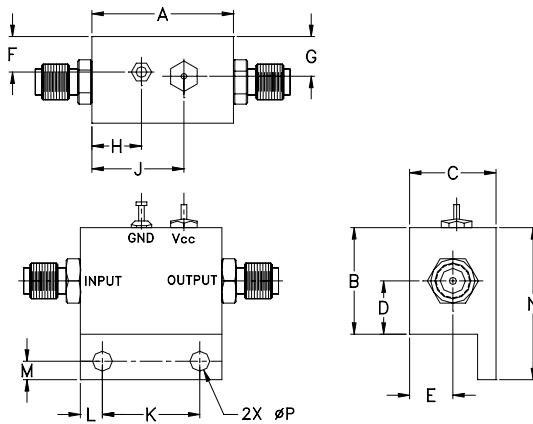
Operating Temperature -40°C to 75°C

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

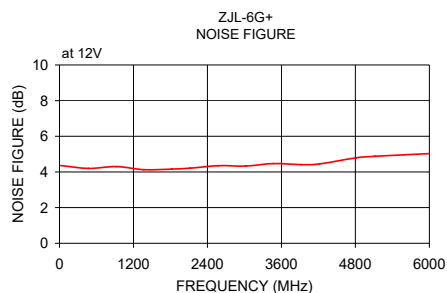
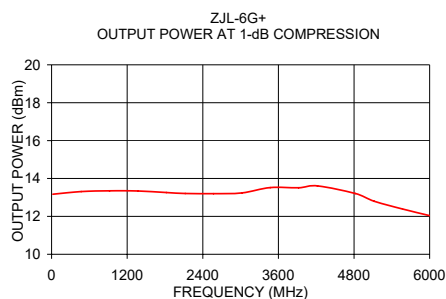
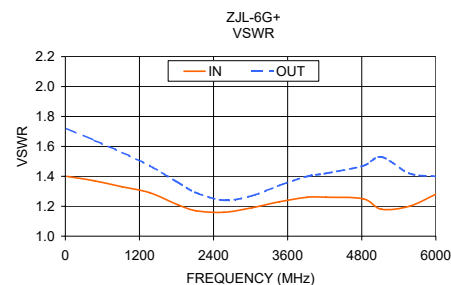
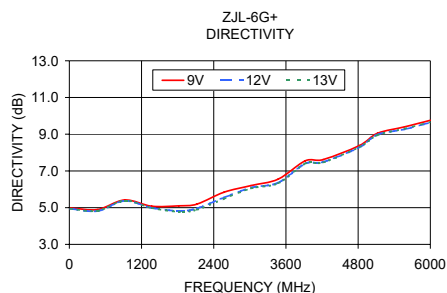
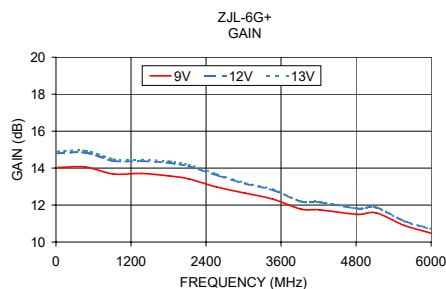
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Typical Performance Data/Curves

ZJL-6G+

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	14.03	14.80	14.90	4.98	4.94	4.94	1.40	1.72	4.36	13.17
470.00	14.06	14.84	14.94	4.90	4.82	4.83	1.37	1.64	4.20	13.31
920.00	13.68	14.39	14.48	5.42	5.37	5.39	1.33	1.56	4.30	13.35
1370.00	13.71	14.38	14.46	5.08	4.99	4.98	1.29	1.47	4.13	13.34
1820.00	13.57	14.28	14.37	5.10	4.83	4.78	1.21	1.36	4.16	13.26
2120.00	13.42	14.10	14.19	5.19	4.96	4.89	1.17	1.29	4.21	13.21
2570.00	12.98	13.62	13.69	5.84	5.55	5.48	1.16	1.24	4.35	13.20
3020.00	12.65	13.16	13.21	6.20	6.09	6.05	1.19	1.27	4.33	13.24
3470.00	12.32	12.81	12.86	6.55	6.36	6.33	1.23	1.34	4.47	13.52
3920.00	11.78	12.19	12.21	7.55	7.40	7.40	1.26	1.40	4.41	13.51
4220.00	11.74	12.15	12.18	7.62	7.49	7.46	1.26	1.42	4.45	13.61
4820.00	11.50	11.82	11.81	8.38	8.29	8.30	1.25	1.47	4.80	13.21
5120.00	11.58	11.88	11.86	9.05	8.98	8.95	1.18	1.53	4.88	12.80
5570.00	10.90	11.14	11.12	9.40	9.27	9.30	1.20	1.42	4.96	12.39
6000.00	10.48	10.71	10.69	9.76	9.64	9.67	1.28	1.40	5.03	12.04



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