

Coaxial Amplifier

ZJL-4G+ ZJL-4G

50Ω Medium Power 20 to 4000 MHz

Features

- wideband, 20 to 4000 MHz
- high IP3, +30.5 dBm typ.
- rugged, compact case, 1.07"x0.61" (including mounting bracket)
- protected by US Patent, 6,943,629

Applications

- radar
- instrumentation
- lab use

CASE STYLE: BW459

Connectors	Model	Price	Qty.
SMA	ZJL-4G(+)	\$129.95 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 ¹ Typ.	Output (1 dB Compr.) L	U	Input (no damage)	NF (dB) Typ.	IP3 (dBm) Typ.	In	Out	Volt (V) Nom.	Current (mA) Max.
ZJL-4G(+)	20	4000	12.4	10.0	±0.25	+13.5	+11	+20	5.5	+30.5	1.4	1.6	12	75

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)

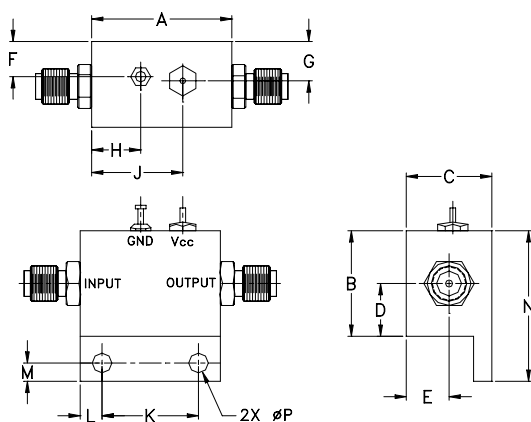
Maximum Ratings

Operating Temperature -40°C to 75°C

Storage Temperature -55°C to 100°C

DC Voltage +13V Max.

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

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RF/IF MICROWAVE COMPONENTS

REV. A
M98898
ZJL-4G
070323
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Typical Performance Data/Curves

ZJL-4G+
ZJL-4G

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	12.22	12.49	12.48	6.96	7.21	7.38	1.38	1.79	5.03	16.85
320.00	12.43	12.83	12.87	6.59	6.59	6.61	1.37	1.65	4.94	17.37
620.00	12.43	12.84	12.88	6.53	6.50	6.51	1.37	1.57	5.04	17.61
820.00	12.48	12.88	12.92	6.45	6.41	6.41	1.35	1.51	5.05	17.73
1120.00	12.56	12.98	13.02	6.26	6.16	6.16	1.29	1.39	5.04	17.85
1420.00	12.64	13.07	13.12	6.06	5.90	5.90	1.21	1.28	5.02	17.72
1720.00	12.58	13.02	13.10	6.21	5.89	5.89	1.12	1.16	5.03	17.51
2020.00	12.47	12.94	13.00	6.38	6.02	6.02	1.07	1.10	5.03	17.23
2320.00	12.29	12.76	12.83	6.78	6.38	6.38	1.14	1.16	5.08	17.02
2620.00	12.11	12.54	12.60	7.05	6.76	6.76	1.24	1.24	5.13	16.57
2920.00	12.04	12.41	12.46	7.45	7.25	7.25	1.31	1.31	5.23	16.06
3120.00	11.91	12.25	12.29	7.38	7.59	7.57	1.34	1.34	5.29	15.69
3420.00	11.65	11.95	11.98	8.44	8.36	8.36	1.35	1.36	5.33	14.92
3720.00	11.40	11.68	11.70	8.86	8.84	8.84	1.33	1.34	5.29	14.20
4000.00	11.21	11.45	11.47	9.37	9.38	9.38	1.29	1.30	5.34	13.39

