Coaxial

Amplifier

ZJL-4HG+

50Ω Medium Power 20 to 4000 MHz

CASE STYLE: BW459

Connectors	Model	Price	Qty.
SMA	ZJL-4HG+	$129.95 ea.	(1-9)

Features

- wideband, 20 to 4000 MHz
- high IP3, +30 dBm typ.
- rugged, compact case 1.07"x0.61"(including mounting bracket)
- protected by US Patent, 6,943,629

Applications

- radar
- instrumentation
- lab use

+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[1] RANGE		VSWR (:1) Typ.		DC POWER	
						Min Output (1 dB Compr.)								
	f_L	f_U	Typ.	Min.[2]	Flatness[1] Typ.	L_W	U	Input (no damage)	NF (dB) Typ.	IP3 (dBm) Typ.	In	Out	Volt (V) Nom.	Current (mA) Max.
ZJL-4HG+	20	4000	17.0	13.0	±2.0	+15	+10	+13	4.5	+30	1.5	1.4	12	75

1. Flatness specified to 0.75 f_U, dynamic range at 2 GHz.
2. 12.8dB Min. above 3600 MHz
Open load is not recommended, potentially can cause damage.
With no load derate max input power by 20 dB

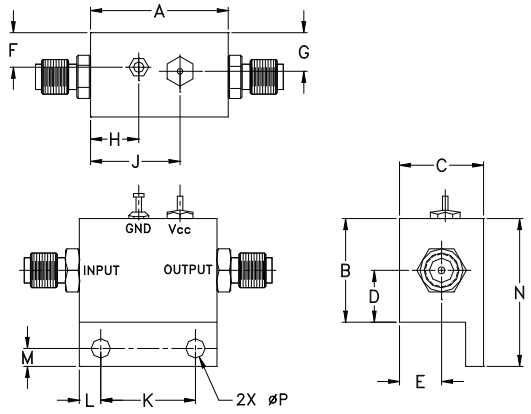
L_W= low range (f_L to f_U/2) U= upper range (f_U/2 to f_U)

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

Typical Performance Data/Curves

ZJL-4HG+

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	18.67	18.99	19.09	6.28	6.76	6.72	1.50	1.33	3.26	16.70
300.00	18.67	19.10	19.23	6.24	6.28	6.25	1.46	1.24	3.11	16.85
600.00	18.47	18.88	19.01	6.28	6.42	6.31	1.45	1.24	3.18	16.83
900.00	18.15	18.53	18.65	6.51	6.65	6.59	1.44	1.26	3.16	16.75
1200.00	17.83	18.17	18.28	6.60	6.80	6.73	1.47	1.30	3.15	16.76
1500.00	17.41	17.71	17.82	6.84	7.07	6.97	1.48	1.34	3.36	16.68
1800.00	16.90	17.19	17.30	7.20	7.40	7.37	1.50	1.38	3.28	16.48
2100.00	16.42	16.71	16.81	7.47	7.65	7.59	1.51	1.42	3.34	16.01
2400.00	15.94	16.24	16.32	7.77	7.89	7.81	1.52	1.45	3.43	15.18
2700.00	15.48	15.77	15.86	8.00	8.02	7.99	1.52	1.49	3.46	14.71
3000.00	15.04	15.32	15.42	8.14	8.21	8.14	1.51	1.53	3.53	13.96
3200.00	14.76	15.04	15.14	8.27	8.33	8.23	1.49	1.56	3.53	13.34
3500.00	14.36	14.63	14.74	8.41	8.44	8.34	1.47	1.62	3.44	12.39
3700.00	14.09	14.36	14.47	8.53	8.51	8.41	1.44	1.65	3.53	12.22
4000.00	13.69	13.95	14.07	8.63	8.62	8.51	1.40	1.74	3.62	11.58