Coaxial

Amplifier

ZJL-3G+
ZJL-3G

50Ω Low Power 20 to 3000 MHz



CASE STYLE: BW459

Connectors	Model	Price	Qty.
SMA	ZJL-3G(+)	$114.95 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.

Features

- wideband, 20 to 3000 MHz
- compact rugged case, 1.07"x0.61"(including mounting bracket)
- low noise figure, 3.8 dB typ.
- protected by US Patent, 6,943,629

Applications

- communication systems
- radar
- instrumentation
- laboratory use

Amplifier Electrical Specifications

MODEL NO.	FREQUENCY (MHz)		GAIN (dB)			MAXIMUM POWER (dBm)			DYNAMIC RANGE		VSWR (:1) Typ.		DC POWER	
						Output (1 dB Compr.)		Input	NF (dB)	IP3 (dBm)			Volt (V)	Current (mA)
	f_L	f_U	Typ.	Min.	Flatness[1] Typ.	L	U	(no damage)	Typ.	Typ.	In	Out	Nom.	Max.
ZJL-3G(+)	20	3000	19	14	±2.2	+8	+8	+13	3.8	+22	1.4	1.6	12	45

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

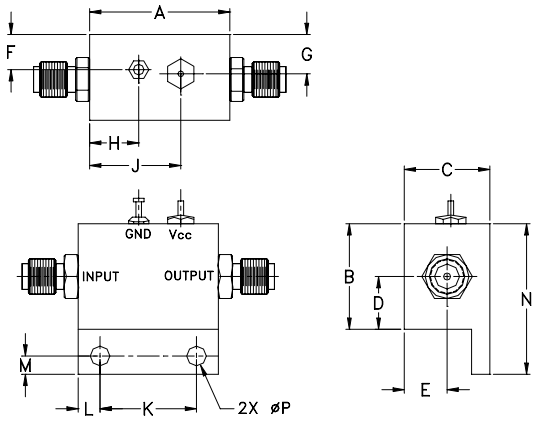
L= low range (f_L to f_U/2) U= upper range (f_U/2 to f_U)

Open load is not recommended, potentially can cause damage.
With no load derate max input power by 20 dB

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

Typical Performance Data/Curves

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	12V	12V
20.00	18.93	21.93	22.31	3.78	3.28	3.36	1.51	1.85	2.73	9.67
220.00	18.95	21.93	22.30	3.78	3.25	3.33	1.48	1.80	2.68	9.96
420.00	18.87	21.75	22.10	3.81	3.28	3.32	1.46	1.77	2.81	9.86
820.00	18.58	21.13	21.42	4.04	3.54	3.57	1.42	1.68	2.84	10.18
1020.00	18.38	20.75	21.02	4.13	3.65	3.63	1.37	1.59	2.78	9.98
1120.00	18.31	20.64	20.90	4.12	3.55	3.53	1.36	1.57	2.82	10.04
1320.00	18.16	20.40	20.67	4.21	3.49	3.43	1.34	1.52	2.79	9.92
1520.00	17.92	19.93	20.16	4.36	3.70	3.66	1.33	1.46	2.90	9.72
1920.00	17.38	19.21	19.41	4.78	3.87	3.75	1.32	1.36	2.94	9.58
2120.00	17.18	18.92	19.11	4.74	3.86	3.79	1.33	1.32	2.93	9.71
2220.00	17.06	18.77	18.95	4.83	3.90	3.79	1.34	1.31	2.90	9.89
2420.00	16.76	18.25	18.42	5.11	4.37	4.25	1.37	1.30	2.90	9.98
2620.00	16.58	17.94	18.08	4.97	4.35	4.34	1.40	1.30	2.91	10.01
2820.00	16.26	17.50	17.63	5.37	4.83	4.73	1.42	1.31	3.01	10.21
3000.00	15.94	16.95	17.06	5.88	5.54	5.45	1.44	1.32	3.09	10.45

