

Coaxial Amplifier

ZFL-2500+ ZFL-2500

50Ω Medium Power 500 to 2500 MHz

Features

- wideband, 500 to 2500 MHz
- high gain, 31 dB typ.
- protected by US Patent, 6,943,629

Applications

- spread-spectrum and optical communications
- cellular base stations
- GPS
- test instrumentation



CASE STYLE: Y460

Connectors Model
SMA ZFL-2500(+)
BRACKET (OPTION "B")

+ 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

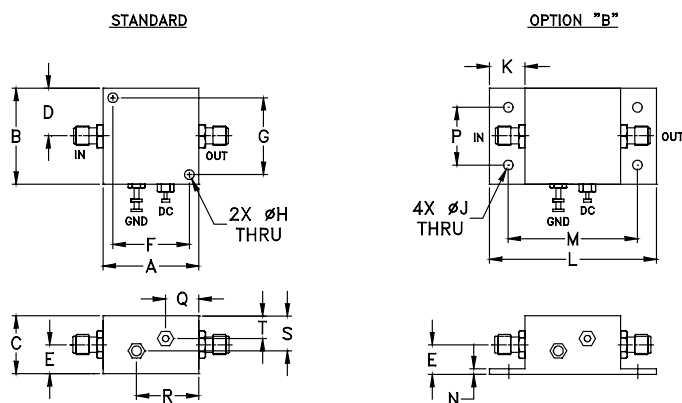
MODEL NO.	FREQUENCY (MHz)		GAIN (dB)		MAXIMUM POWER (dBm)		DYNAMIC RANGE		VSWR (:1) Typ.		DC POWER	
	f_L	f_U	Min.	Flatness Max.	Output (1 dB Compr.)	Input (no damage)	NF (dB) Typ.	IP3 (dBm) Typ.	In	Out	Volt (V) Nom.	Current (mA) Max.
ZFL-2500(+)	500	2500	28	±1.5	+15	+5	8.0	+27	2.5	2.5	5	220

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

Maximum Ratings

Operating Temperature	-20°C to 65°C
Storage Temperature	-55°C to 100°C
DC Voltage	+6V Max.

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	wt.
1.25	1.25	.75	.63	.36	1.000	1.000	.125	.125	.46	2.18	1.688	.06	.750	.50	.80	.45	.29	grams
31.75	31.75	19.05	16.00	9.14	25.40	25.40	3.18	3.18	11.68	55.37	42.88	1.52	19.05	12.70	20.32	11.43	7.37	38



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



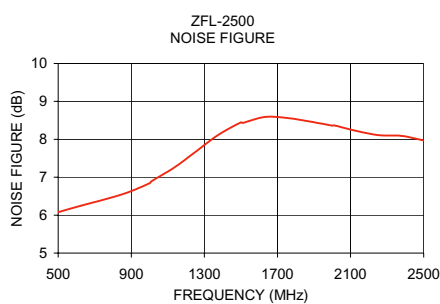
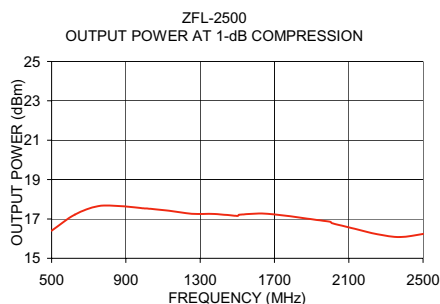
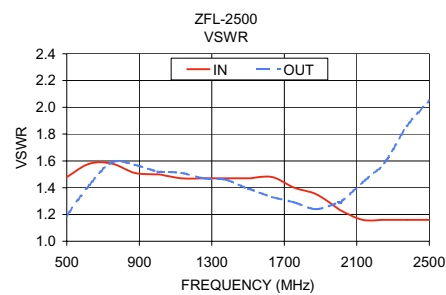
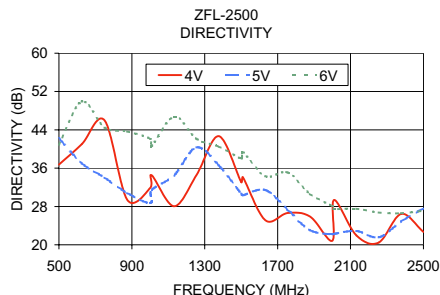
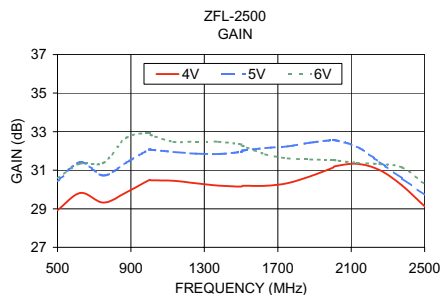
The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

RF/IF MICROWAVE COMPONENTS

Typical Performance Data/Curves

ZFL-2500+ ZFL-2500

FREQUENCY (MHz)	GAIN (dB)			DIRECTIVITY (dB)			VSWR (:1) 5V		NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)
	4V	5V	6V	4V	5V	6V	IN	OUT		
500.00	28.92	30.43	30.59	36.73	42.23	40.95	1.48	1.19	6.08	16.40
625.00	29.82	31.41	31.34	41.02	37.01	49.91	1.58	1.42	6.25	17.22
750.00	29.32	30.73	31.38	45.97	34.04	44.45	1.58	1.59	6.41	17.65
875.00	29.85	31.40	32.68	29.38	30.82	43.66	1.51	1.57	6.59	17.65
1000.00	30.49	32.08	32.93	31.84	28.74	42.15	1.50	1.52	6.84	17.53
1010.00	30.48	32.06	32.83	34.51	31.45	40.63	1.50	1.52	6.89	17.53
1132.50	30.45	31.95	32.47	28.07	34.48	46.73	1.47	1.51	7.25	17.42
1255.00	30.32	31.86	32.49	34.55	40.35	42.13	1.47	1.47	7.68	17.26
1377.50	30.20	31.84	32.47	42.68	36.54	40.51	1.47	1.46	8.12	17.25
1500.00	30.15	31.95	32.34	33.08	30.64	38.03	1.47	1.39	8.45	17.15
1510.00	30.19	32.05	32.26	34.08	30.33	39.34	1.47	1.39	8.43	17.21
1632.50	30.19	32.15	31.83	25.14	31.44	34.32	1.48	1.33	8.59	17.28
1755.00	30.33	32.24	31.62	26.65	27.32	35.09	1.40	1.29	8.56	17.17
1877.50	30.69	32.43	31.56	25.90	23.05	30.59	1.35	1.24	8.47	17.01
2000.00	31.13	32.56	31.53	20.85	22.18	28.08	1.24	1.29	8.36	16.86
2010.00	31.20	32.56	31.52	29.35	22.29	27.47	1.23	1.29	8.37	16.78
2132.00	31.33	32.22	31.38	21.96	22.88	27.51	1.16	1.44	8.22	16.50
2255.00	31.01	31.43	31.32	20.48	21.56	26.74	1.16	1.59	8.11	16.22
2377.00	30.21	30.58	31.15	26.43	24.85	26.58	1.16	1.86	8.09	16.08
2500.00	29.13	29.72	30.29	22.69	27.61	27.12	1.16	2.05	7.97	16.24



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

RF/IF MICROWAVE COMPONENTS