

# Coaxial Amplifier

## 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



Generic photo used for illustration purposes only

CASE STYLE: Y460

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

**+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 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

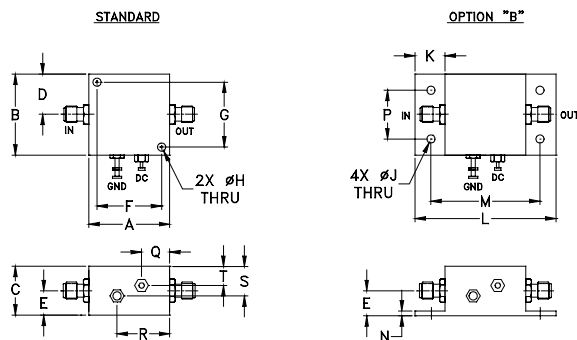
Operating Temperature -20°C to 65°C

Storage Temperature -55°C to 100°C

DC Voltage +6V Max.

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	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

### Notes

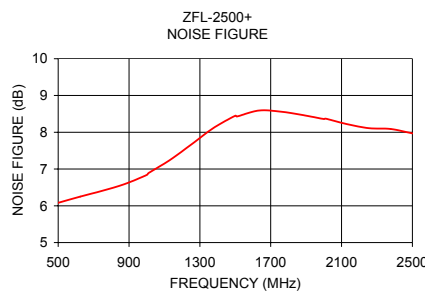
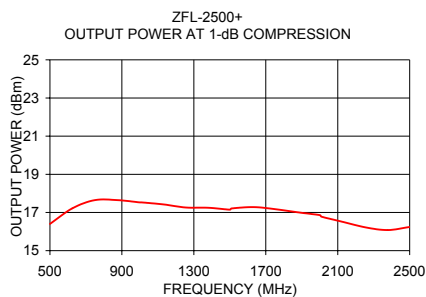
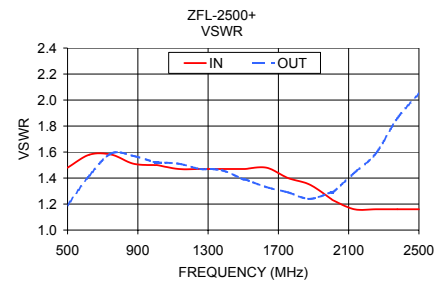
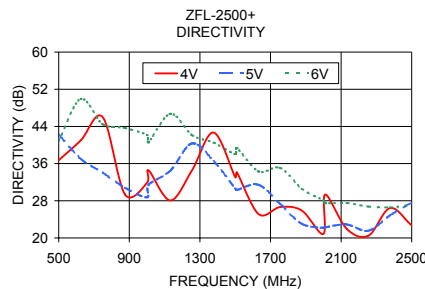
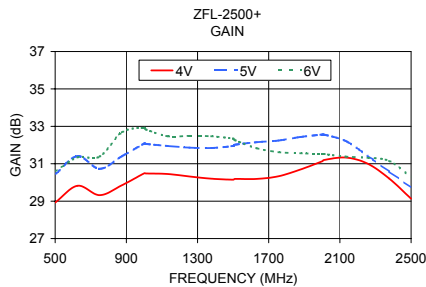
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Page 1 of 2

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



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