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Expert team | Trust guarantee | 100% satisfaction

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Find the *Mini-Circuits ZFL-500* at our website: *Click HERE*

Coaxial Amplifier

ZFL-500+ ZFL-500

50Ω Low Power 0.05 to 500 MHz



SMA version shown
CASE STYLE: Y460

Connectors	Model	Price	Qty.
SMA	ZFL-500(+)	$69.95	(1-9)
BNC	ZFL-500-BNC	$74.95	(1-9)
BRACKET	(OPTION "B")	$5.00	(1+)

+RoHS Compliant
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Features

- wideband, 0.05 to 500 MHz
- rugged, shielded case
- low noise, 5.3 dB typ.
- protected by US Patent, 6,943,629

Applications

- instrumentation
- lab use
- VHF/UHF

Amplifier Electrical Specifications

MODEL NO.	FREQUENCY (MHz)		GAIN (dB)		MAXIMUM POWER (dBm)		DYNAMIC RANGE		VSWR (:1) Typ.		DC POWER	
					Output (1 dB Compr.)	Input (no damage)	NF (dB) Typ.	IP3 (dBm) Typ.			Volt (V) Nom.	Current (mA) Max.
	f_L	f_U	Min.	Flatness Max.					In	Out		
ZFL-500(+)	0.05	500	20	±1.0	+9	+5	5.3	+18	1.9	1.9	15	80

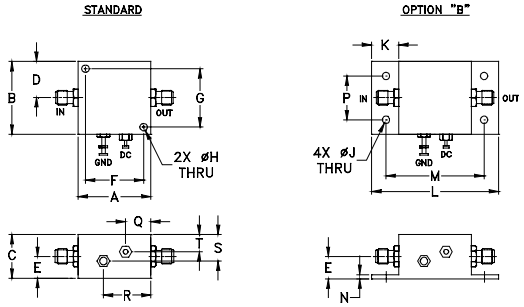
Open load is not recommended, potentially can cause damage.
With no load derate max input power by 20 dB

Maximum Ratings

Operating Temperature	-20°C to 71°C
Storage Temperature	-55°C to 100°C
DC Voltage	+17V 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

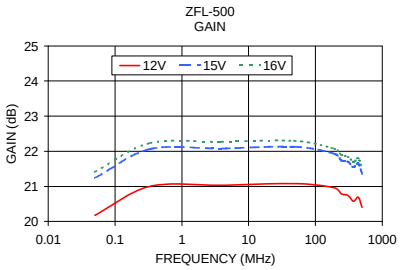
Notes
A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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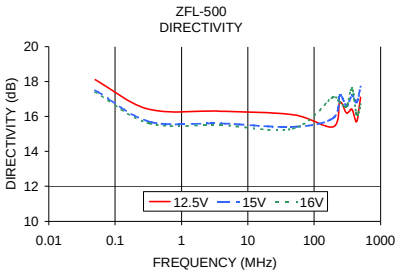
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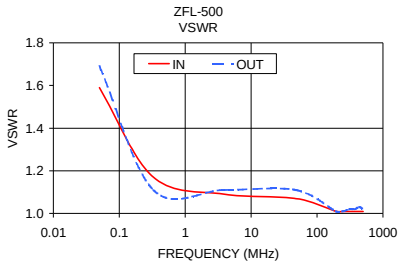
Typical Performance Data/Curves

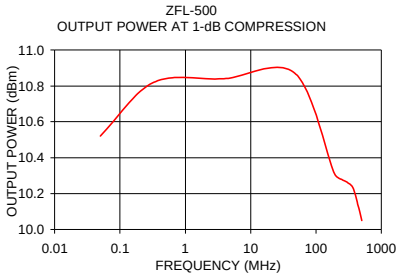
ZFL-500+
ZFL-500

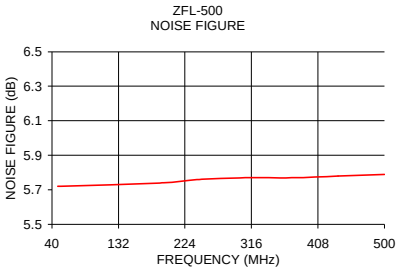
FREQUENCY (MHz)	GAIN (dB)			DIRECTIVITY (dB)			VSWR (:1) 15V		NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)
	12V	15V	16V	12V	15V	16V	IN	OUT	15V	15V
0.05	20.18	21.24	21.41	18.10	17.50	17.40	1.59	1.69	—	10.52
0.33	21.00	22.06	22.23	16.40	15.70	15.60	1.17	1.11	—	10.82
3.90	21.03	22.08	22.27	16.30	15.60	15.50	1.09	1.11	—	10.84
47.90	21.08	22.13	22.30	16.10	15.40	15.30	1.07	1.11	5.72	10.87
192.30	20.96	21.93	22.07	15.40	15.90	17.10	1.01	1.01	5.74	10.31
243.60	20.79	21.74	21.90	16.80	17.20	16.80	1.01	1.01	5.76	10.28
307.70	20.74	21.70	21.84	16.20	16.60	16.60	1.01	1.02	5.77	10.26
371.80	20.58	21.55	21.70	16.40	17.20	17.60	1.01	1.02	5.77	10.23
435.90	20.69	21.65	21.80	15.70	16.80	16.10	1.01	1.03	5.78	10.14
500.00	20.40	21.36	21.52	17.10	17.70	16.70	1.01	1.02	5.79	10.05











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