

Coaxial Amplifier

ZFL-1000+ ZFL-1000

50Ω Low Power 0.1 to 1000 MHz

Features

- wideband, 0.1 to 1000 MHz
- rugged, shielded case
- protected by US Patent, 6,943,629

Applications

- VHF/UHF
- cellular
- instrumentation
- lab use



Generic photo used for illustration purposes only

CASE STYLE: Y460

| Connectors | Model |
|-----------------------------|-------------|
| SMA | ZFL-1000(+) |
| 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-1000(+) | 0.1 | 1000 | 17 | ±0.7 | +9* | +5 | 6.0 | +18 | 1.5 | 2.1* | 15 | 105 |

* Output VSWR 2.8:1 maximum over 750-1000 MHz, 1 dB compression +7dBm at 500-1000 MHz

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

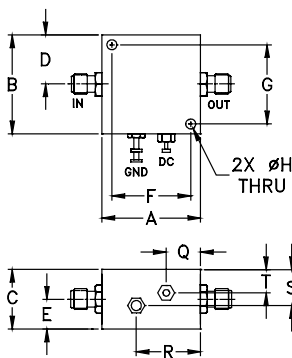
Storage Temperature -55°C to 100°C

DC Voltage +17V Max.

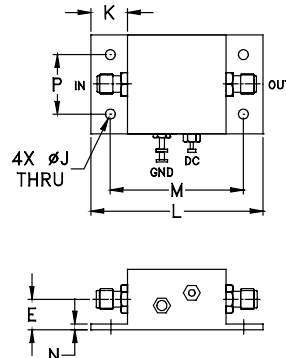
Permanent damage may occur if any of these limits are exceeded.

Outline Drawing

STANDARD



OPTION "B"



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

- 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.
- 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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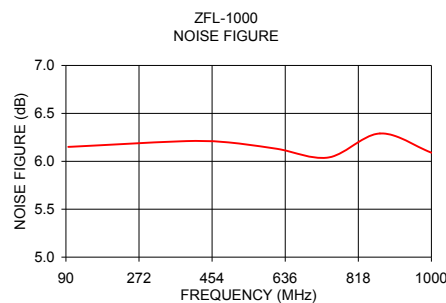
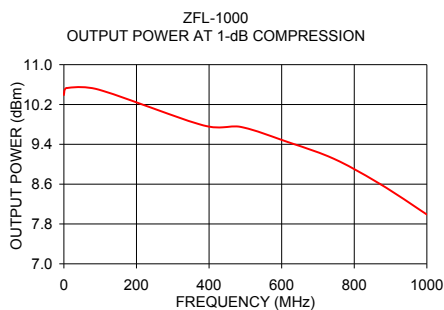
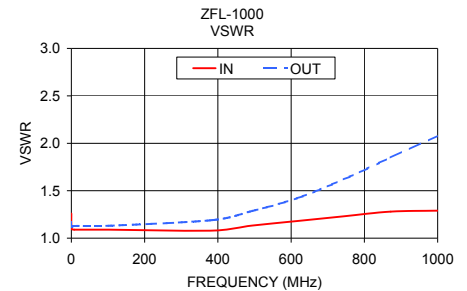
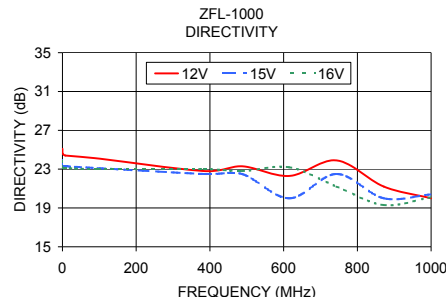
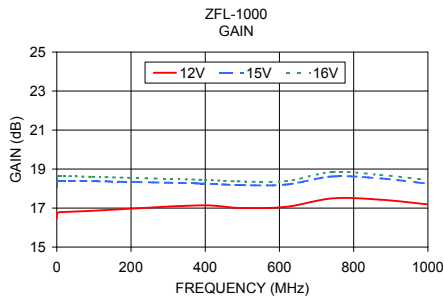
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Typical Performance Data/Curves

ZFL-1000+ ZFL-1000

| FREQUENCY (MHz) | GAIN (dB) | | | DIRECTIVITY (dB) | | | VSWR (:1) | | NOISE FIGURE (dB) | POUT at 1 dB COMPR. (dBm) |
|-----------------|-----------|-------|-------|------------------|-------|-------|-----------|------|-------------------|---------------------------|
| | 12V | 15V | 16V | 12V | 15V | 16V | IN | OUT | | |
| 0.10 | 16.48 | 18.08 | 18.31 | 25.10 | 23.90 | 23.80 | 1.26 | 1.17 | — | 10.39 |
| 0.70 | 16.72 | 18.38 | 18.60 | 24.60 | 23.30 | 23.10 | 1.10 | 1.12 | — | 10.43 |
| 7.90 | 16.79 | 18.40 | 18.64 | 24.40 | 23.30 | 23.10 | 1.09 | 1.13 | — | 10.53 |
| 95.70 | 16.86 | 18.38 | 18.60 | 24.10 | 23.10 | 23.00 | 1.09 | 1.13 | 6.15 | 10.50 |
| 384.70 | 17.14 | 18.26 | 18.45 | 22.80 | 22.50 | 23.00 | 1.08 | 1.19 | 6.21 | 9.78 |
| 487.20 | 17.01 | 18.18 | 18.37 | 23.30 | 22.50 | 22.80 | 1.13 | 1.28 | 6.20 | 9.75 |
| 615.40 | 17.06 | 18.20 | 18.38 | 22.30 | 20.00 | 23.20 | 1.18 | 1.42 | 6.13 | 9.45 |
| 743.60 | 17.50 | 18.62 | 18.85 | 23.90 | 22.50 | 21.20 | 1.23 | 1.62 | 6.04 | 9.11 |
| 871.80 | 17.43 | 18.52 | 18.70 | 21.20 | 20.00 | 19.30 | 1.28 | 1.85 | 6.29 | 8.60 |
| 1000.00 | 17.19 | 18.25 | 18.44 | 20.00 | 20.40 | 20.10 | 1.29 | 2.08 | 6.09 | 7.99 |



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