

Coaxial Amplifier

ZFL-750+

50Ω Low Power 0.2 to 750 MHz

Features

- wideband, 0.2 to 750 MHz
- rugged shielded case
- low noise figure, 6 dB typ.
- protected by US Patent, 6,943,629



CASE STYLE: Y460

Connectors Model
SMA ZFL-750+
BRACKET (OPTION "B")

Applications

- VHF/UHF
- lab use
- instrumentation

+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-750+ | 0.2 | 750 | 18 | ±0.55 | +9* | +5 | 6.0 | +18 | 1.5 | 2.0 | 15 | 90 |

* +7dBm from 500 to 750 MHz

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

Maximum Ratings

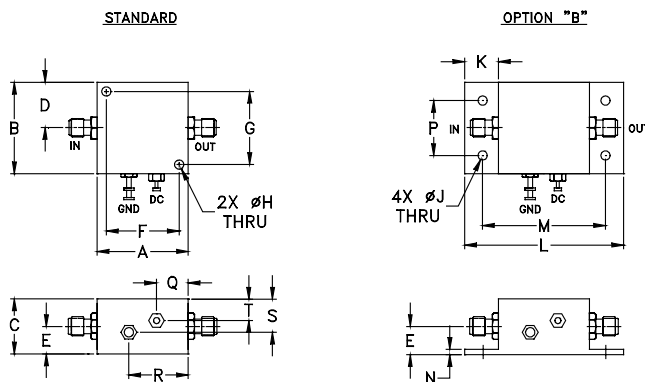
Operating Temperature -20°C to 71°C

Storage Temperature -55°C to 100°C

DC Voltage +17V Max.

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

Outline Drawing



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

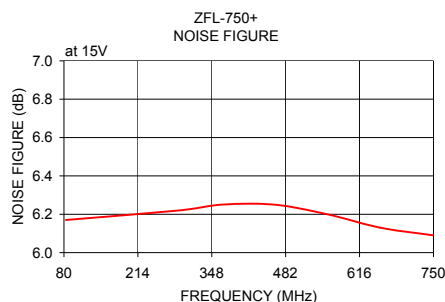
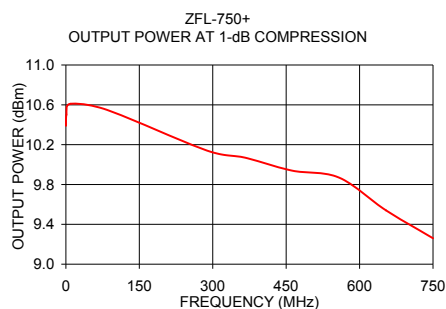
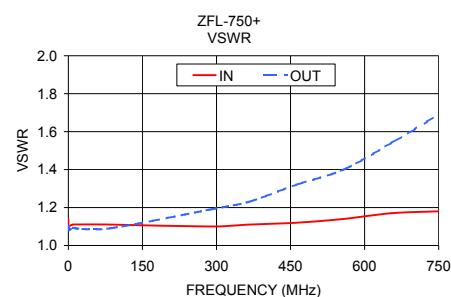
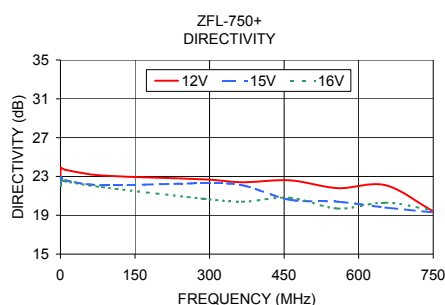
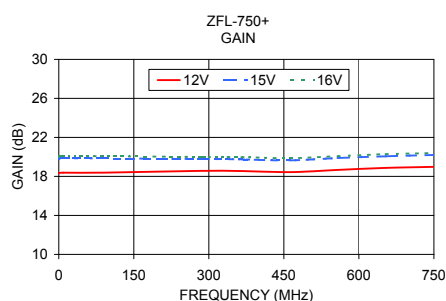
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| FREQUENCY (MHz) | GAIN (dB) | | | DIRECTIVITY (dB) | | | VSWR (:1) | | NOISE FIGURE (dB) | POUT at 1 dB COMPR. (dBm) |
|-----------------|-----------|-------|-------|------------------|-------|-------|-----------|------|-------------------|---------------------------|
| | 12V | 15V | 16V | 12V | 15V | 16V | IN | OUT | | |
| 0.20 | 18.30 | 19.78 | 20.01 | 22.90 | 22.20 | 22.00 | 1.14 | 1.10 | — | 10.39 |
| 1.00 | 18.36 | 19.85 | 20.08 | 23.90 | 22.90 | 22.60 | 1.10 | 1.08 | — | 10.50 |
| 9.30 | 18.38 | 19.86 | 20.10 | 23.70 | 22.60 | 22.50 | 1.11 | 1.09 | — | 10.61 |
| 83.50 | 18.38 | 19.84 | 20.07 | 23.10 | 22.10 | 21.90 | 1.11 | 1.09 | 6.17 | 10.55 |
| 288.60 | 18.57 | 19.79 | 20.00 | 22.70 | 22.30 | 20.70 | 1.10 | 1.19 | 6.22 | 10.14 |
| 365.50 | 18.55 | 19.74 | 19.97 | 22.40 | 22.10 | 20.40 | 1.11 | 1.23 | 6.25 | 10.07 |
| 461.60 | 18.44 | 19.64 | 19.87 | 22.60 | 20.60 | 20.80 | 1.12 | 1.32 | 6.25 | 9.94 |
| 557.70 | 18.66 | 19.88 | 20.07 | 21.80 | 20.40 | 19.70 | 1.14 | 1.40 | 6.20 | 9.87 |
| 653.90 | 18.87 | 20.06 | 20.29 | 22.10 | 19.80 | 20.30 | 1.17 | 1.54 | 6.13 | 9.54 |
| 750.00 | 18.98 | 20.20 | 20.39 | 19.40 | 19.30 | 19.50 | 1.18 | 1.69 | 6.09 | 9.26 |



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