

Coaxial Amplifier

ZFL-11AD+

50Ω High Isolation 2 to 2000 MHz

Features

- wideband, 2 to 2000 MHz
- rugged, shielded case

Applications

- receivers
- two-tone, 3rd order IM testing
- cellular
- satellite communication
- GPS



Generic photo used for illustration purposes only

CASE STYLE: Y460

Connectors Model
SMA ZFL-11AD+
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. | | ACTIVE DIRECTIVITY* (dB) | | | | DC POWER | |
|-----------|-----------------|-------|-----------|------|---------------------------|----------------------|---|-------------------|---------------|----------------|----------------|-----|--------------------------|------|------|------|---------------|-------------------|
| | f_L | f_U | Min. | m | Flatness Max. Total Range | Output (1 dB Compr.) | | | NF (dB) Typ. | IP3 (dBm) Typ. | In | Out | L | | U | | Volt (V) Nom. | Current (mA) Max. |
| ZFL-11AD+ | 2 | 2000 | 8 | ±0.5 | ±1.3 | L | U | Input (no damage) | 6.5 | +14 | 2.5 | 2.0 | Typ. | Min. | Typ. | Min. | 15 | 22 |

*Active Directivity(dB)= Isolation (dB)- Gain (dB)

**Above 1 GHz, -5 dBm min.

Open load is not recommended, potentially can cause damage.

With no load derate max input power by 20 dB

L= low range (f_L to $f_U/2$)

m= mid range ($2f_L$ to $f_U/2$)

U= upper range ($f_U/2$ to f_U)

Maximum Ratings

Operating Temperature -20°C to 71°C

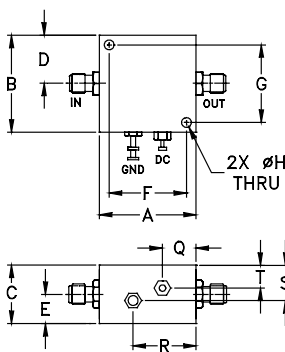
Storage Temperature -55°C to 100°C

DC Voltage +16V Max.

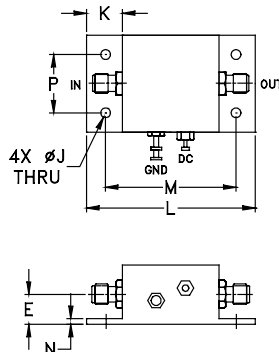
Permanent damage may occur if any of these limits are exceeded.

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

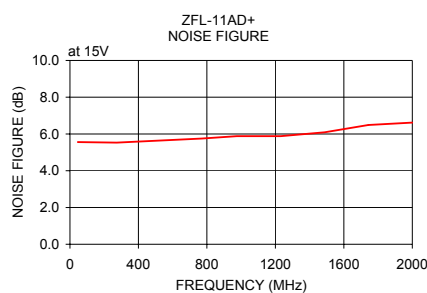
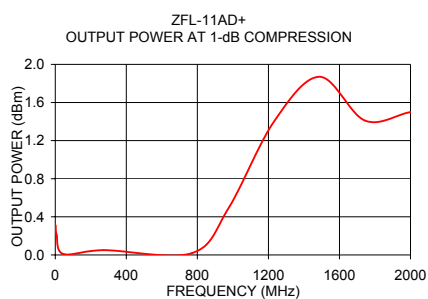
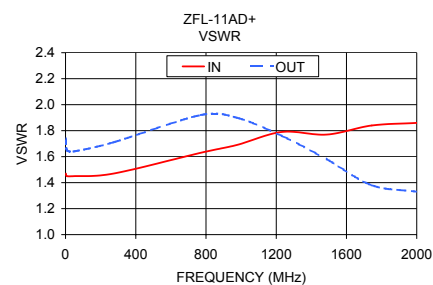
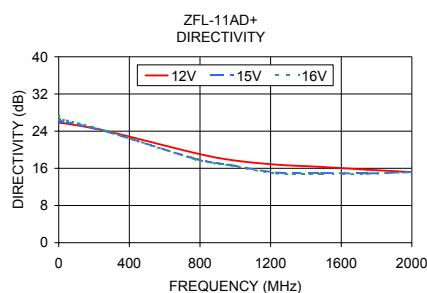
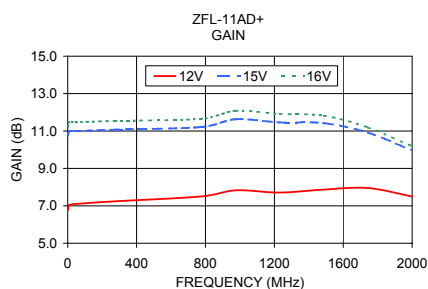
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| FREQUENCY (MHz) | GAIN (dB) | | | DIRECTIVITY (dB) | | | VSWR (:1) | | NOISE FIGURE (dB) | POUT at 1 dB COMPR. (dBm) |
|-----------------|-----------|-------|-------|------------------|-------|-------|-----------|------|-------------------|---------------------------|
| | 12V | 15V | 16V | 12V | 15V | 16V | IN | OUT | | |
| 2.00 | 6.79 | 10.76 | 11.24 | 26.50 | 26.60 | 27.20 | 1.47 | 1.74 | — | 0.31 |
| 7.60 | 7.04 | 10.99 | 11.47 | 25.80 | 26.10 | 26.50 | 1.45 | 1.65 | — | 0.21 |
| 45.70 | 7.10 | 10.99 | 11.47 | 25.60 | 25.90 | 26.30 | 1.45 | 1.64 | 5.56 | 0.01 |
| 273.20 | 7.24 | 11.07 | 11.54 | 24.00 | 23.90 | 24.00 | 1.47 | 1.71 | 5.53 | 0.05 |
| 770.50 | 7.50 | 11.21 | 11.65 | 19.30 | 18.10 | 18.00 | 1.63 | 1.92 | 5.75 | 0.02 |
| 975.40 | 7.83 | 11.63 | 12.08 | 17.80 | 16.70 | 16.60 | 1.69 | 1.90 | 5.88 | 0.49 |
| 1231.50 | 7.71 | 11.46 | 11.91 | 16.80 | 15.10 | 14.90 | 1.79 | 1.76 | 5.88 | 1.40 |
| 1487.70 | 7.87 | 11.42 | 11.82 | 16.30 | 15.00 | 14.70 | 1.77 | 1.58 | 6.09 | 1.87 |
| 1743.80 | 7.95 | 10.91 | 11.19 | 15.70 | 14.90 | 14.80 | 1.84 | 1.38 | 6.49 | 1.41 |
| 2000.00 | 7.50 | 9.96 | 10.19 | 15.20 | 15.20 | 15.20 | 1.86 | 1.33 | 6.62 | 1.50 |



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