

RF AMPLIFIER

MODEL CZ8461

Available as: CZ8461, 4 Pin TO-12 (T7)
 TN8461, 4 Pin Surface Mount (SM3)
 FP8461, 4 Pin Flatpack (FP4)
 PN8461, Reduced Size Surface Mount (SM11)

Features

- Lower Cost
- Cascadable
- Operating Temp. -55 °C to +85 °C
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	100 kHz - 400 MHz	300 kHz - 400 MHz
Gain (dB)	15	13.5 Min.
Power @ 1 dB Comp. (dBm)	-1.5	-4.0 Min.
Reverse Isolation (dB)	- 21	-19 Max.
VSWR In	1.5:1	2.0:1 Max.
Out	1.75:1	2.0:1 Max.
Noise Figure (dB)	4.5	5.5 Max.
Power Vdc	+ 15	+15
mA	10	12 Max.

Note: Care should always be taken to effectively ground the case of each unit.

Revision 5/7/2012

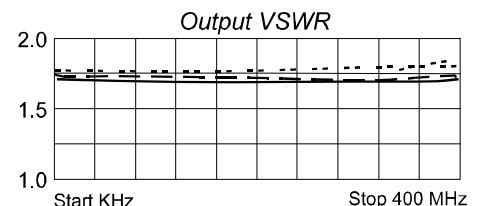
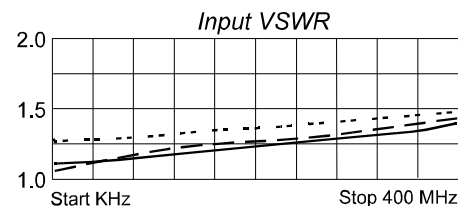
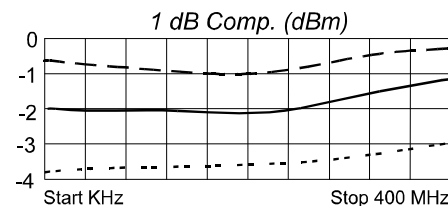
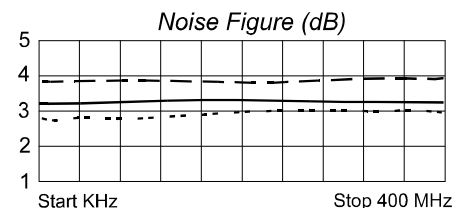
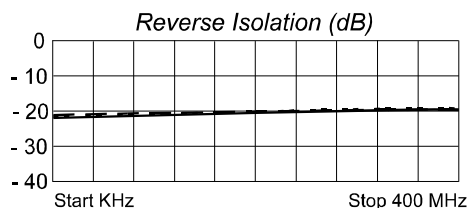
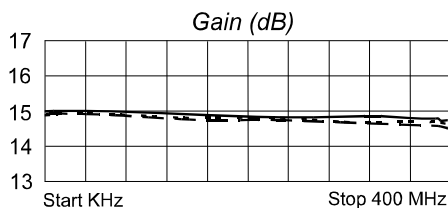
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point.....+15 dBm (Typ.)
 Second Order Two Tone Intercept Poin.....+ 9 dBm (Typ.)
 Third Order Two Tone Intercept Point.....+11 dBm (Typ.)

Maximum Ratings

Ambient Operating Temperature-55°C to +100 °C
 Storage Temperature-62°C to +125 °C
 Case Temperature +125 °C
 DC Current +18 Volts
 Continuous RF Input Power +13 dBm
 Short Term RF Input Power 50 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.5 Watt (3 µsec Max.)

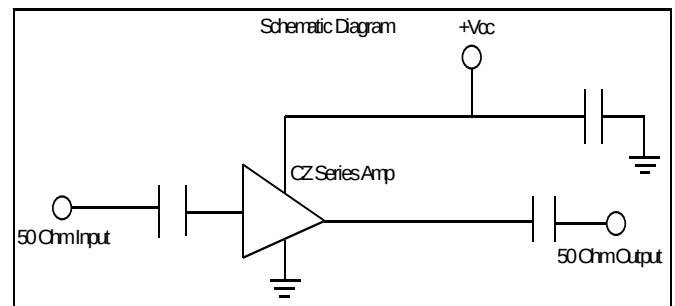
Typical Performance Data



Legend ——— +25 °C - - - +85 °C - - - - -55 °C

The CZ846X Series Amplifiers are designed for applications in 50 ohm systems. Three external capacitors are required. The external capacitors determine the low frequency response of the Amplifier.

The CZ846X Series Amplifiers can be cascaded in series of two or more units without oscillation problems.



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