

# RF AMPLIFIER

## MODEL CZ8010

Available as: CZ8010, 3 Pin TO-39  
 TN8010, 4 Pin Surface Mount (SM3)  
 BX8010, Connectorized Housing (H1)

### Features

- Lower Cost
- Operating Temp. 0 °C to +70 °C
- Environmental Screening Available

### Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point ..... +32 dBm (Typ.)  
 Second Order Two Tone Intercept Point ..... +26 dBm (Typ.)  
 Third Order Two Tone Intercept Point ..... +21 dBm (Typ.)

### Specifications

CHARACTERISTIC		TYPICAL Ta= 25 °C	MIN/MAX Ta = 0 °C to +70 °C
Frequency		kHz - 400 MHz	kHz - 400 MHz
Gain (dB)		14	13 Min.
Power @ 1 dB Comp. (dBm)		-3.0	-5.0 Min.
Reverse Isolation (dB)		-15	-14 Max.
VSWR	In	<1.5:1	2.5:1 Max.
	Out	<1.5:1	2.5:1 Max.
Noise Figure (dB)		3.0	4.5 Max.
Power	Vdc	+3	+3
	mA	25	28 Max.

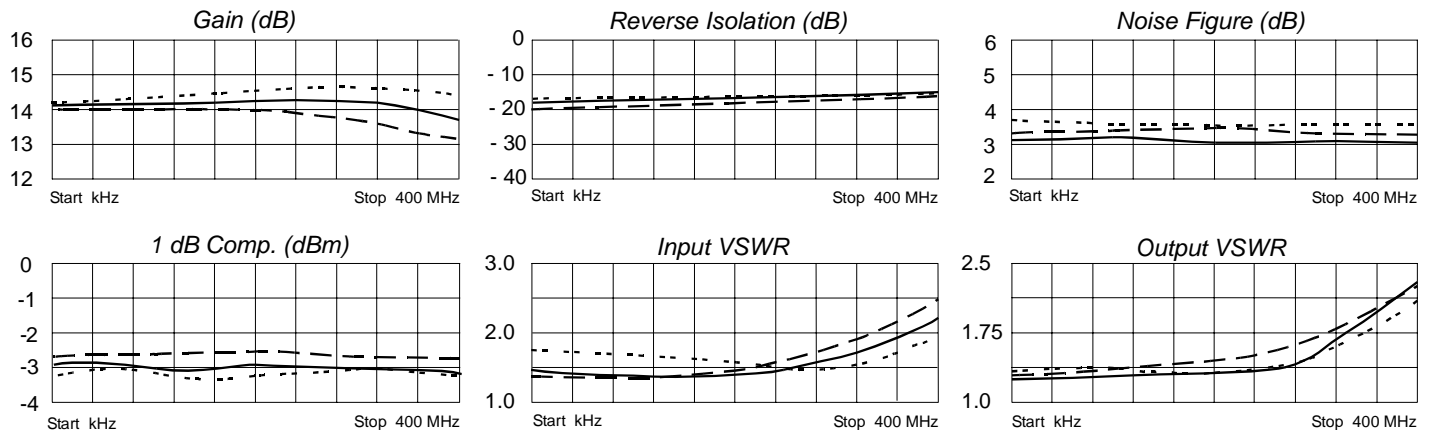
Note: Care should always be taken to effectively ground the case of each unit.

### Maximum (No Damage) Ratings

Ambient Operating Temperature ..... -55°C to + 100 °C  
 Storage Temperature ..... -62°C to + 125 °C  
 Case Temperature ..... + 125 °C  
 DC Voltage ..... + 6 Volts  
 Continuous RF Input Power ..... + 8 dBm  
 Short Term RF Input Power ..... 50 Milliwatts (1 Minute Max.)  
 Maximum Peak Power ..... 0.5 Watt ( 3 µsec Max.)

\*Three external capacitors and a decoupling impedance are required. The decoupling impedance must be large in comparison to the 50 Ohm load to minimize gain reduction. The external capacitors determine the low frequency response of the amplifier.  
 \*Decoupling Impedance is 1 kOhm.

### Typical Performance Data



Legend ——— +25 °C    - - - - +70 °C    ······ 0 °C



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