

RF AMPLIFIER

MODEL CZ8220

Available as: CZ8220, 3 Pin TO-39 (T10)
 TN8220, 4 Pin Surface Mount (SM3)
 FP8220, 4 Pin Flatpack (FP4)
 BX8220, Connectorized Housing (H1)

Features

- Lower Cost; Medium Gain: 10 dB Typical
- Output Power: +8 dBm Typical
- Operating Temp. 0 °C to +70 °C
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = 0 °C to +70 °C
Frequency	kHz - 600 MHz	kHz - 600 MHz
Gain (dB)	10	9.0 Min.
Power @ 1 dB Comp. (dBm)	+8	+6.0 Min.
Reverse Isolation (dB)	-14.5	-14 Max.
VSWR In	<1.75:1	2.5:1 Max.
Out	<1.75:1	2.5:1 Max.
Noise figure (dB)	<6.0	7.5 Max.
Power Vdc	+3.2	+3.2
mA	25	28 Max.

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

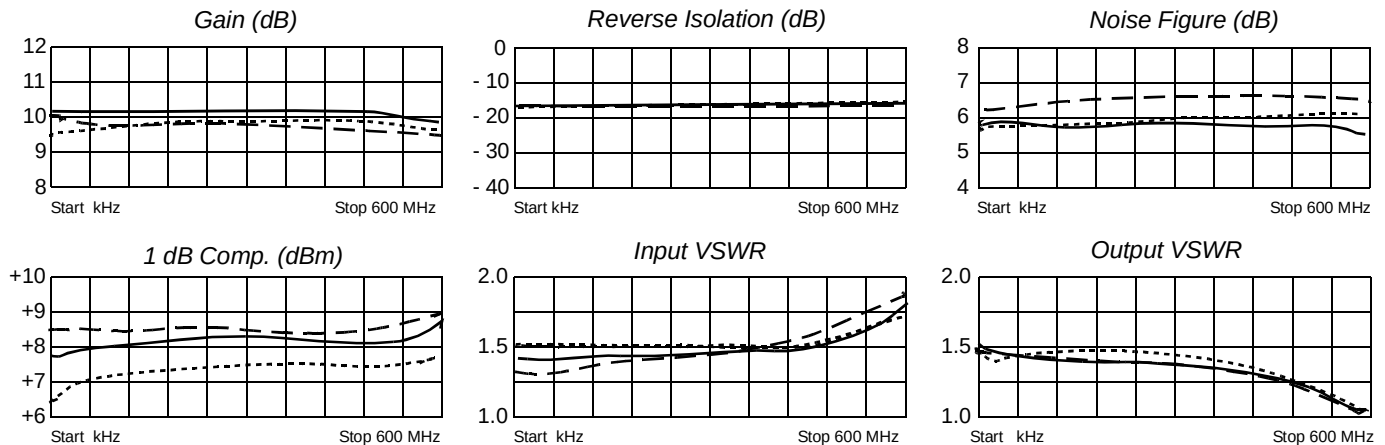
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point.....+32 dBm (Typ.)
 Second Order Two Tone Intercept Point.....+26 dBm (Typ.)
 Third Order Two Tone Intercept Point.....+20 dBm (Typ.)

Maximum Ratings

Ambient Operating Temperature -55°C to + 125 °C
 Storage Temperature -62°C to + 125 °C
 Case Temperature + 125 °C
 DC Current 55 mA
 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

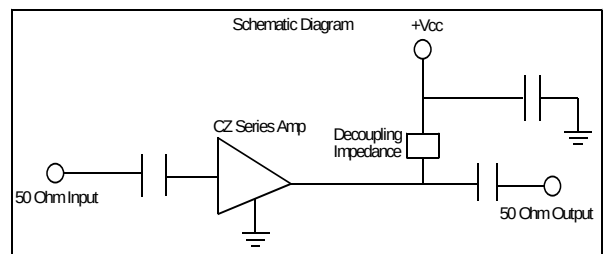


Legend ——— +25 °C - - - +70 °C 0 °C

The CZ82X0 Series Amplifiers are designed for application in 50 ohm systems. 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. Data sheet curves are based on the noted decoupling impedance. The external capacitors determine the low frequency response of the Amplifier.

The CZ82X0 Series Amplifiers can be cascaded in series of two or more units without oscillation problems.

* Decoupling Impedance is 1 KOhm



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