

RF AMPLIFIER

MODEL CZ8210

Available as: CZ8210, 4 Pin TO-39 (T10)

Features

- Lower Cost; Medium Gain: 10 dB Typical
- Replacement for the Motorola MWA 210
- Operating Temp. 0 °C to +70 °C

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)	-3.5	-6.0 Min.
Reverse Isolation	-15	-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	+1.8	+1.8
mA	10	12 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.....+ 14 dBm (Typ.)

Second Order Two Tone Intercept Point.....+ 8 dBm (Typ.)

Third Order Two Tone Intercept Point+ 7 dBm (Typ.)

Maximum Ratings

Ambient Operating Temperature -55°C to + 100 °C

Storage Temperature -62°C to + 125 °C

Case Temperature + 125 °C

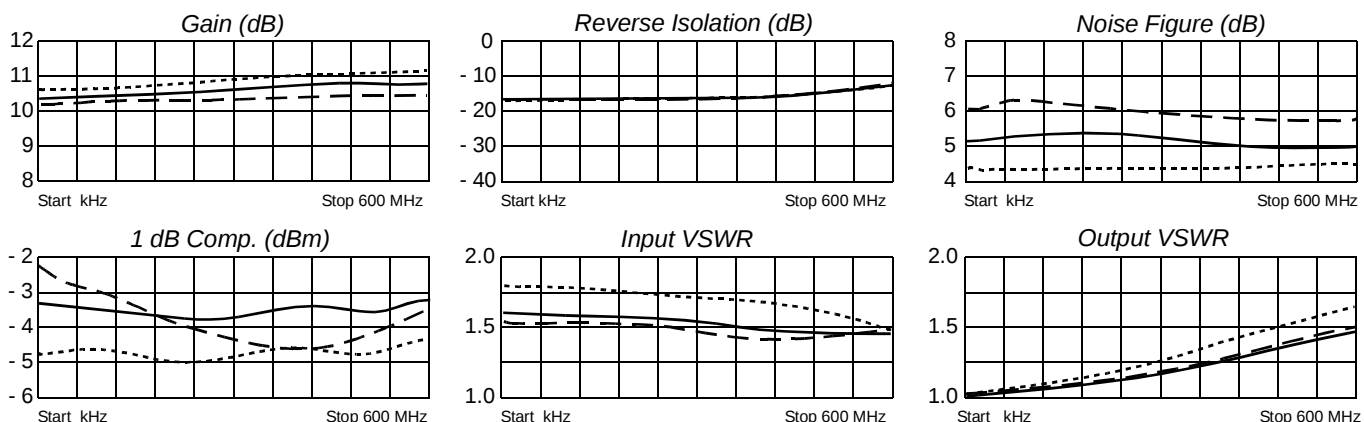
DC Current 25 mA

Continuous RF Input Power + 6 dBm

Short Term RF Input Power 25 Milliwatts (1 Minute Max.)

Maximum Peak Power 0.25 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.



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532 11/23/04

www.SpectrumMicrowave.com Spectrum Microwave (Europe) · 2707 Black Lake Place · Philadelphia, Pa. 19154 · PH (215) 464-4000 · Fax (215) 464-4001

* Decoupling Impedance is 1 kOhm

