RF AMPLIFIER
MODEL *CZ8020*

Available as: CZ8020, 3 Pin TO-39
TN8020, 4 Pin Surface Mount (SM3)
BX8020, Connectorized Housing (H1)

Features

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

Typical Intermodulation Performance at 25 º 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 ºC	MIN/MAX Ta = 0 ºC to +70 ºC
Frequency	kHz - 400 MHz	kHz - 400 MHz
Gain (dB)	14	13 Min.
Power @ 1 dB Comp. (dBm)	+7.0	+5.0 Min.
Reverse Isolation (dB)	-15	-14 Max.
VSWR In Out	<1.5:1 <2.0:1	2.5:1 Max. 2.5:1 Max.
Noise Figure (dB)	4.5	6.0 Max.
Power Vdc mA	+5 25	+5 28 Max.

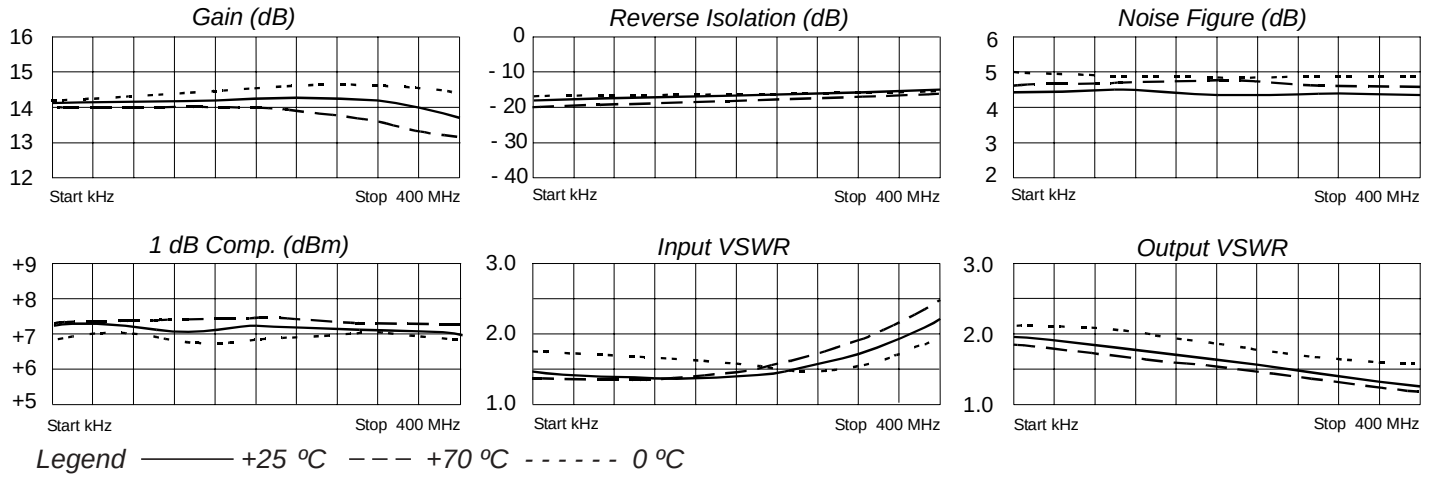
Note: Care should always be taken to effectively ground the case of each unit.

Maximum (No Damage) Ratings

Ambient Operating Temperature ..... -55ºC to + 100 ºC
Storage Temperature ..... -62ºC to + 125 ºC
Case Temperature ..... + 125 ºC
DC Voltage ..... + 8 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 impedence 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 ºC* – – – *+70 ºC* - - - - - - *0 ºC*

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