

RF AMPLIFIER

MODEL CZ8251

Available as: CZ8251, 4 Pin TO-12 (T7)
 TN8251, 4 Pin Surface Mount (SM3)
 BX8251, Connectorized Housing (H1)

Features

- Low +5 Volt Supply
- High Gain: 26.5 dB Typical
- 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	5 - 200 MHz	5 - 200 MHz
Gain (dB)	26.5	24 Min.
Power @ 1 dB Comp. (dBm)	+3	-1.0 Min.
Reverse Isolation (dB)	- 43	-41 Max.
VSWR In	1.40:1	2.0:1 Max.
Out	1.25:1	2.0:1 Max.
Noise Figure (dB)	4.0	4.5 Max.
Power Vdc	+5	+5
mA	30	35 Max.

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

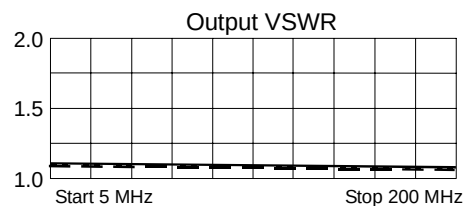
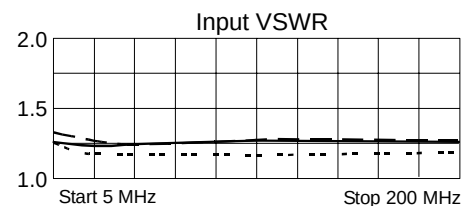
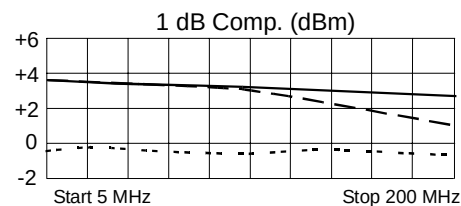
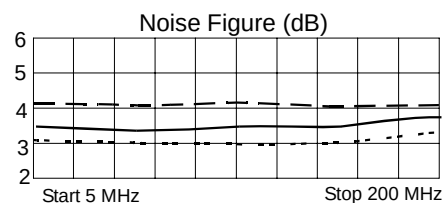
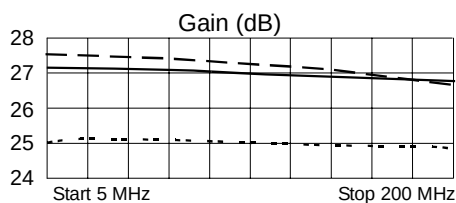
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point.....+32 dBm (Typ.)
 Second Order Two Tone Intercept Poin.....+27 dBm (Typ.)
 Third Order Two Tone Intercept Point.....+14 dBm (Typ.)

Maximum Ratings

Ambient Operating Temperature -55°C to +100 °C
 Storage Temperature -62°C to +125 °C
 Case Temperature +125 °C
 DC Voltage +10 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



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