

RF AMPLIFIER

MODEL CZ8454

Features

- Low +5 Volt Supply
- High Gain: 27 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 - 350 MHz	5 - 350 MHz
Gain (dB)	27	25 Min.
Gain Flatness (dB)	+/- 0.7	+/- 1.2 Max.
Power @ 1 dB Comp. (dBm)	+4	+1 Min.
Reverse Isolation (dB)	- 43	-40 Max.
VSWR In	1.5:1	2.0:1 Max.
Out	1.5:1	2.0:1 Max.
Noise Figure (dB)	3.8	5.0 Max.
Power Vdc	+5	+5
mA	32	36 Max.

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

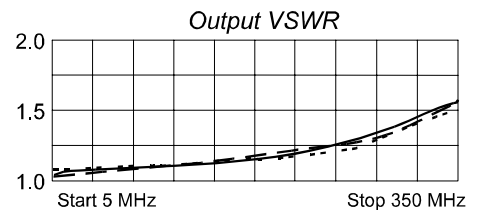
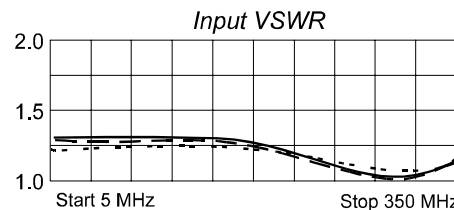
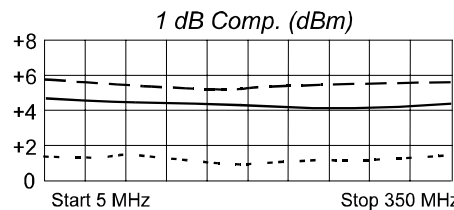
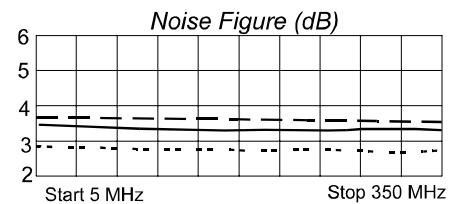
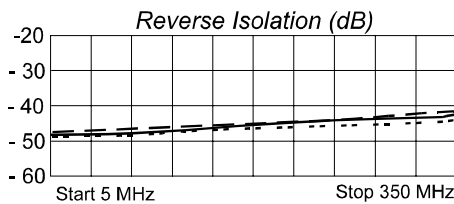
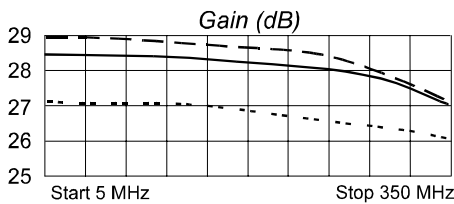
Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point.....+33 dBm (Typ.)
 Second Order Two Tone Intercept Poin.....+28 dBm (Typ.)
 Third Order Two Tone Intercept Point.....+16 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 +7 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

