RF AMPLIFIER
MODEL *CZ8454*

Available as: CZ8454, 4 Pin TO-5

Features

- Low +5 Volt Supply
- High Gain: 27 dB Typical
- Operating Temp. -55 ºC to +85 ºC
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 ºC	MIN/MAX Ta = -55 ºC to +85 ºC
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 Out	1.5:1 1.5:1	2.0:1 Max. 2.0:1 Max.
Noise Figure (dB)	3.8	5.0 Max.
Power Vdc mA	+5 32	+5 36 Max.

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

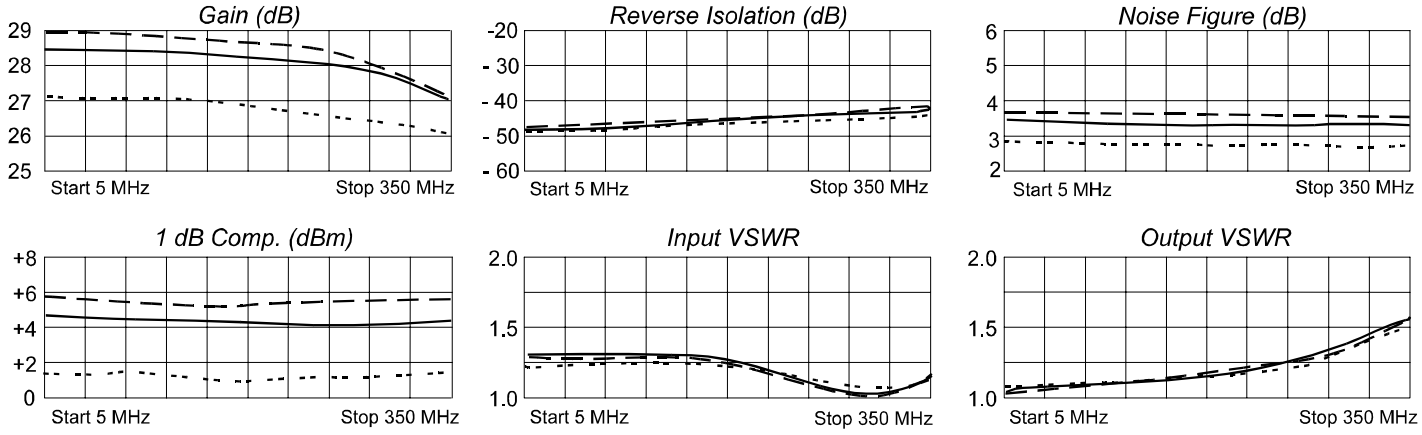
Typical Intermodulation Performance at 25 º C

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 .....-55ºC to +100 ºC
Storage Temperature .....-62ºC to +125 ºC
Case Temperature ..... +125 ºC
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 ºC – – – +85 ºC - - - - - - -55 ºC

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

Rev. 11/8/07

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