RF AMPLIFIER
MODEL *CZ8402*

Available as: CZ8402, 4 Pin TO-12 (T7)
TN8402, 4 Pin Surface Mount (SM3)
BX8402, 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.....+33 dBm (Typ.)
Second Order Two Tone Intercept Poin.....+27 dBm (Typ.)
Third Order Two Tone Intercept Point.....+20 dBm (Typ.)

Specifications

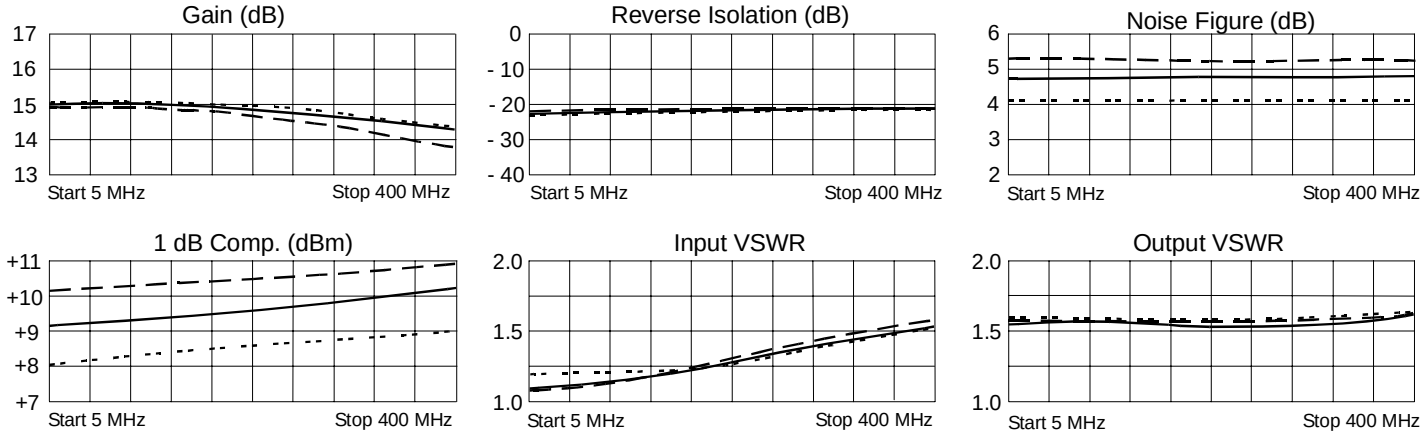
CHARACTERISTIC	TYPICAL Ta= 25 ºC	MIN/MAX Ta = 0 ºC to +70 ºC
Frequency	5 - 400 MHz	5 - 400 MHz
Gain (dB)	15	13.5 Min.
Power @ 1 dB Comp. (dBm)	+9.0	+7.0 Min.
Reverse Isolation (dB)	- 21	-20 Max.
VSWR In Out	1.50:1 1.65:1	2.0:1 Max. 2.0:1 Max.
Noise figure (dB)	4.75	5.75 Max.
Power Vdc mA	+15 25	+15 28 Max.

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

Maximum Ratings

Ambient Operating Temperature ..... -55ºC to + 100 ºC
Storage Temperature ..... -62ºC to + 125 ºC
Case Temperature ..... + 125 ºC
DC Voltage ..... + 18 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* – – – *+70 ºC* - - - - - - *0 ºC*

Linear S-Parameters

Freq. MHz	----S11---- Mag	Deg	----S21---- Mag	Deg	----S12---- Mag	Deg	----S22---- Mag	Deg
5	.04	-146	5.62	-178	.07	4	.21	-3
50	.04	-146	5.64	171	.07	2	.21	-14
100	.06	-133	5.62	161	.07	4	.22	-28
200	.11	-127	5.52	141	.07	7	.22	-57
300	.16	-132	5.38	122	.08	8	.23	-88
400	.22	-140	5.17	102	.09	8	.24	-120

Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532 02/16/06
www.SpectrumMicrowave.com *Spectrum Microwave (Europe) · 2707 Black Lake Place · Philadelphia, Pa. 19154 · PH (215) 464-4000 · Fax (215) 464-4001*