

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 °C to +70 °C
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = 0 °C to +70 °C
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	1.50:1	2.0:1 Max.
Out	1.65:1	2.0:1 Max.
Noise figure (dB)	4.75	5.75 Max.
Power Vdc	+15	+15
mA	25	28 Max.

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

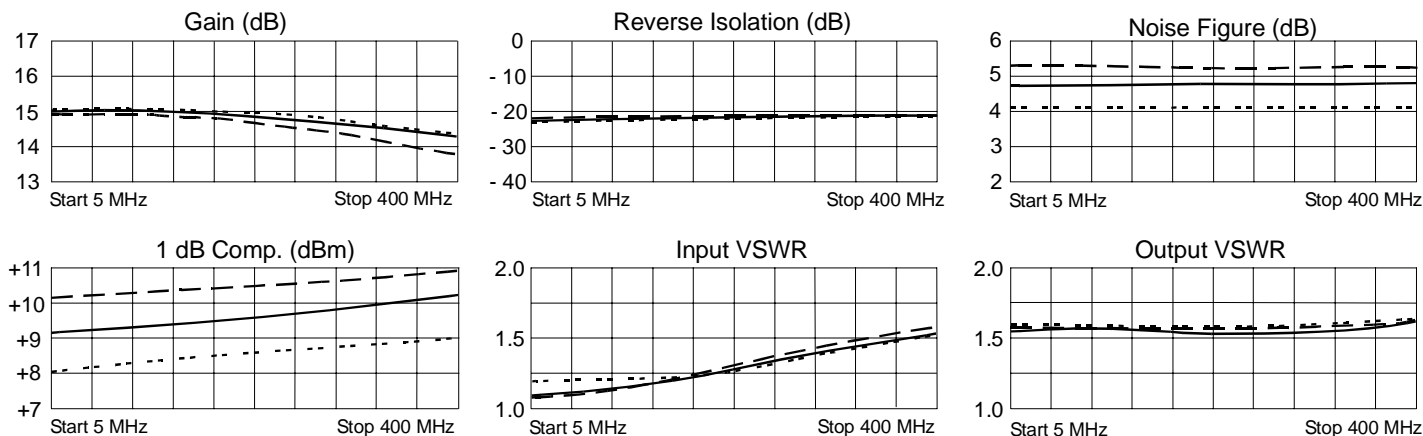
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point.....+33 dBm (Typ.)
 Second Order Two Tone Intercept Poin.....+27 dBm (Typ.)
 Third Order Two Tone Intercept Point.....+20 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 + 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 °C - - - +70 °C ······ 0 °C

Linear S-Parameters

Freq. MHz	---S11---		---S21---		---S12---		---S22---	
	Mag	Deg	Mag	Deg	Mag	Deg	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



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