

RF AMPLIFIER

MODEL CZ8052

Available as: CZ8052, 4 Pin To-12 (T7)

Features

- High Gain: 21.5 dB Typical
- Output Power: +8 dBm Typical
- 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 - 1000 MHz	5 - 1000 MHz
Gain (dB)	21.5	20.0 Min.
Power @ 1 dB Comp. (dBm)	+8	+6.0 Min.
Reverse Isolation (dB)	-34	-32 Max.
VSWR In	<1.25:1	2.0:1 Max.
VSWR Out	<1.25:1	2.0:1 Max.
Noise figure (dB)	<6.0	7.0 Max.
Power Vdc	+15	+15
mA	60	66 Max.

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

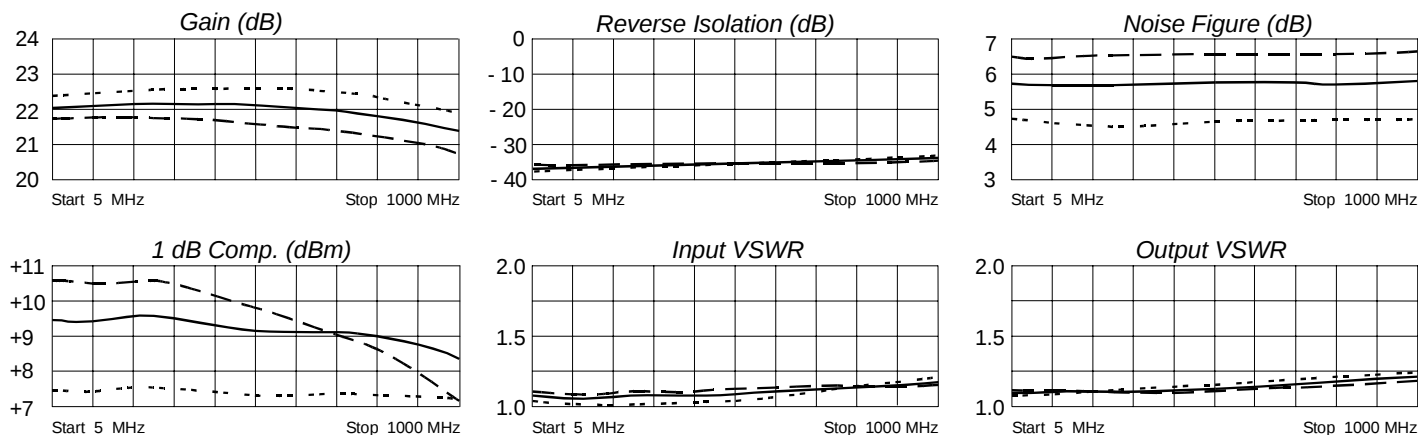
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +44 dBm (Typ.)
 Second Order Two Tone Intercept Point +39 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
 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.	S11		S21		S12		S22	
MHz	Mag	Deg	Mag	Deg	Mag	Deg	Mag	Deg
10	.02	-148	12.	2	.01	4	.05	-164
50	.02	176	55	- 5	.01	4	.05	-172
100	.02	170	12.	- 10	.01	2	.05	-171
250	.02	171	61	- 27	.01	13	.05	-164
500	.03	154	12.	- 55	.01	18	.07	-167
750	.05	126	72	- 83	.02	25	.09	-170
1000	.07	101	12.	-112	.02	31	.10	-176



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532 11/30/04

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