

RF AMPLIFIER

MODEL CZ8050

Available as: CZ8050, 4 Pin TO-12 (T7)

Features

- High Gain: 22.5 dB Typical
- Medium Output Power: +10 dBm Typical
- Operating Temp. 0 °C to +70 °C
- Environmental Screening Available

Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +42 dBm (Typ.)
 Second Order Two Tone Intercept Point +36 dBm (Typ.)
 Third Order Two Tone Intercept Point +23 dBm (Typ.)

Specifications

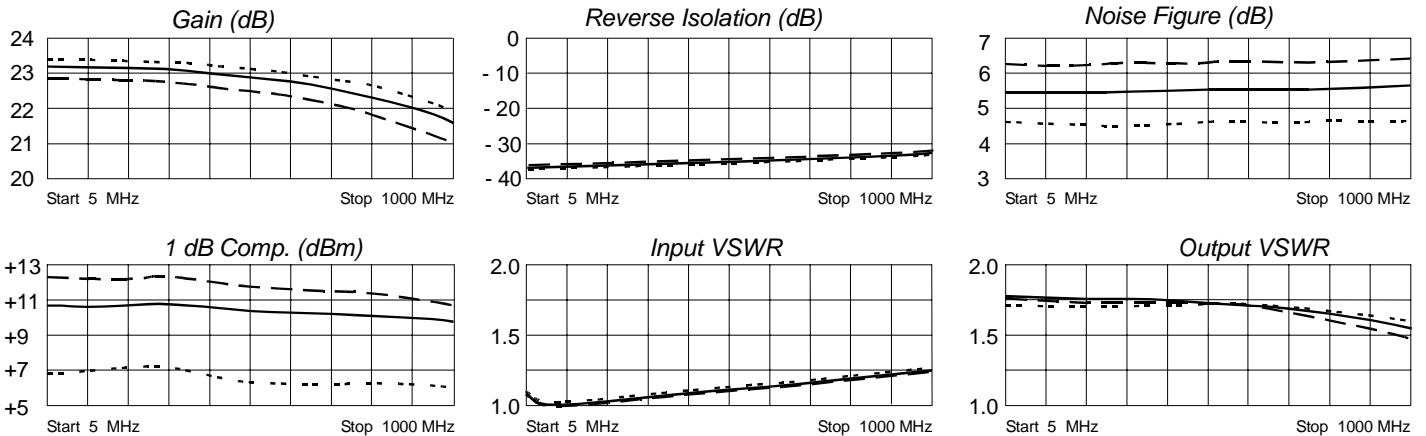
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = 0 °C to +70 °C
Frequency	5 - 1000 MHz	5 - 1000 MHz
Gain (dB)	22.5	20.5 Min.
Power @ 1 dB Comp. (dBm)	+10	+6.0 Min.
Reverse Isolation (dB)	-31.5	-30 Max.
VSWR In	<1.5:1	2.0:1 Max.
Out	<1.75:1	2.0:1 Max.
Noise figure (dB)	<6.0	7.0 Max.
Power Vdc	+15	+15
mA	67	75 Max.

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 MinuteMax.)
 Maximum Peak Power0.5 Watt (3 μsec Max.)

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

Typical Performance Data



Legend ——— +25 °C - - - - +70 °C ······ 0 °C

FR MHz	S11		S21		S12		S22	
	Mag	Deg	Mag	Deg	Mag	Deg	Mag	Deg
10	.01	- 88	14.34	1	.02	5	.28	-176
50	.01	-106	14.37	- 6	.01	8	.28	176
100	.01	- 89	14.44	- 12	.01	- 1	.28	170
250	.02	-114	14.28	- 31	.02	12	.27	155
500	.04	-170	13.90	- 62	.02	20	.27	128
750	.08	149	13.13	- 93	.02	20	.25	100
1000	.11	115	11.93	-124	.02	24	.21	71



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