

RF AMPLIFIER

MODEL CZ8202

Available as: CZ8202, 4 Pin TO-12 (T7)
TN8202, 4 Pin Surface Mount (SM3)

Features

- HighGain: 29 dB Typical
- Medium Output Power: +9 dBm Typical
- Operating Temp. 0 °C to +70 °C
- Environmental Screening Available

Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +40 dBm (Typ.)
Second Order Two Tone Intercept Point +34 dBm (Typ.)
Third Order Two Tone Intercept Point +23 dBm (Typ.)

Specifications

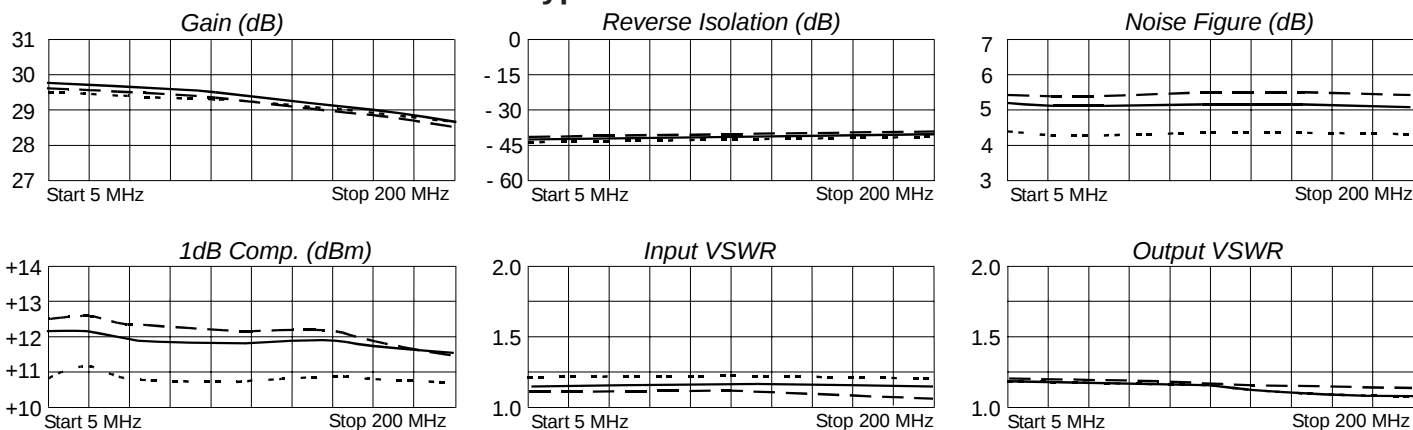
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = 0 °C to +70 °C
Frequency	5 - 200 MHz	5 - 200 MHz
Gain (dB)	29	27 Min.
Power @ 1 dB Comp. (dBm)	+11.5	+9.5 Min.
Reverse Isolation (dB)	-41	-39 Max.
VSWR In	<1.25:1	2.0:1 Max.
VSWR Out	<1.25:1	2.0:1 Max.
Noise figure (dB)	<5.5	6.5 Max.
Power Vdc	+15	+15
mA	55	60 Max.

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

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



Linear S-Parameters

FREQ. MHz	S11		S21		S12		S22	
	Mag	Deg	Mag	Deg	Mag	Deg	Mag	Deg
5	.07	-160	30.53	2	.01	7	.08	-15
25	.07	-173	30.44	-10	0.00	-6	.07	-5
50	.07	-174	30.23	-21	.01	4	.07	-8
100	.07	-171	29.49	-42	.01	5	.06	-5
150	.07	-169	28.26	-63	.01	18	.05	2
200	.06	-165	26.74	-83	.01	20	.04	21



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