

RF AMPLIFIER

MODEL CZ8201

Available as: CZ8201, 4 Pin TO-12 (T7)
TN8201, 4 Pin Surface Mount (SM3)

Features

- High Gain: 32 dB Typical
- Low Noise Figure: 3.25 dB Typical

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = 0 °C to +70 °C
Frequency	5 - 200 MHz	5 - 200 MHz
Gain (dB)	32	30 Min.
Power @ 1 dB Comp. (dBm)	+5.75	+3.0 Min.
Reverse Isolation (dB)	-42	-40 Max.
VSWR In	1.70:1	2.0:1 Max.
VSWR Out	7.75:1	2.0:1 Max.
Noise figure (dB)	3.25	4.0 Max.
Power Vdc	+15	+15
mA	30	35 Max.

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

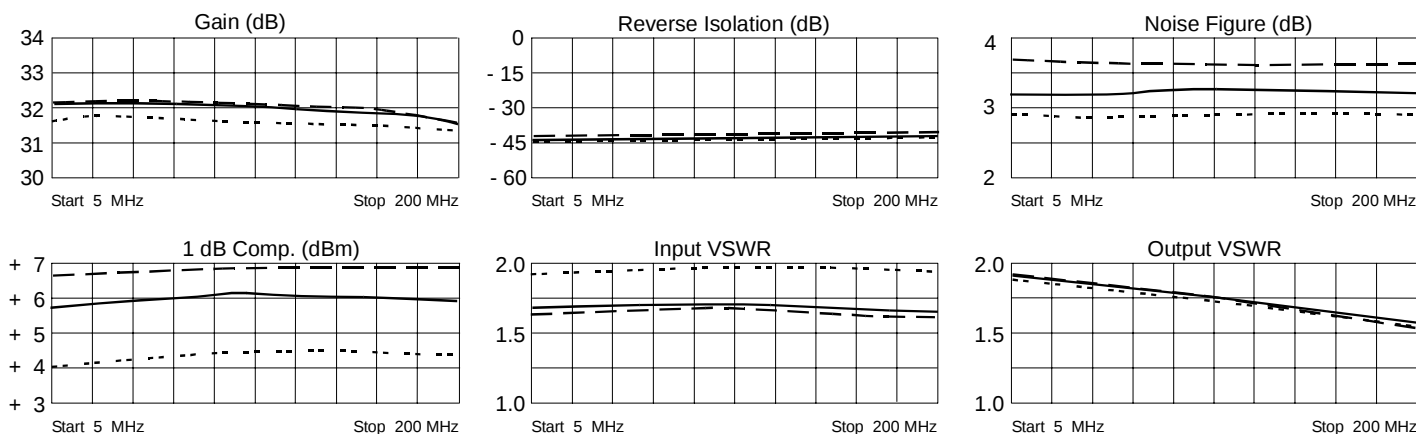
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +43 dBm (Typ.)
Second Order Two Tone Intercept Point +38 dBm (Typ.)
Third Order Two Tone Intercept Point +16 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 + 20 dBm
Short Term RF Input Power 200 Milliwatts (1 Minute Max.)
Maximum Peak Power 0.5 Watt (3 µsec Max.)

Typical Performance Data



Linear S-Parameters

FREQ.	S11		S21		S12		S22	
MHz	Mag.	Deg.	Mag.	Deg.	Mag.	Deg.	Mag.	Deg.
10	.13	-30	3.02	-172	.135	6	.16	165
100	.09	-14	3.20	175	.142	- 4	.11	168
200	.09	-21	3.18	169	.141	- 8	.10	163
400	.08	-38	3.18	157	.142	- 15	.10	149
600	.08	-55	3.17	145	.141	- 25	.10	138
800	.08	-71	3.16	134	.138	- 33	.10	129
1000	.07	-94	3.19	122	.135	- 43	.10	124
1200	.08	-107	3.20	110	.132	- 51	.09	107
1500	.08	-136	3.26	92	.131	- 64	.10	- 88



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