

RF AMPLIFIER

MODEL CZ8208

Available as: CZ8208, 4 Pin TO-12 (T7)

Features

- Low Cost; Medium Gain: 14.5 dBm Typical
- Noise Figure: <6 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)	14.5	13.0 Min.
Power @ 1 dB Comp. (dBm)	+12.5	+11.0 Min.
Reverse Isolation (dB)	-22	-20 Max.
VSWR In	<1.3:1	2.0:1 Max.
VSWR Out	<1.3:1	2.0:1 Max.
Noise figure (dB)	<5.0	6.0 Max.
Power Vdc	+12	+12
mA	36	40 Max.

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

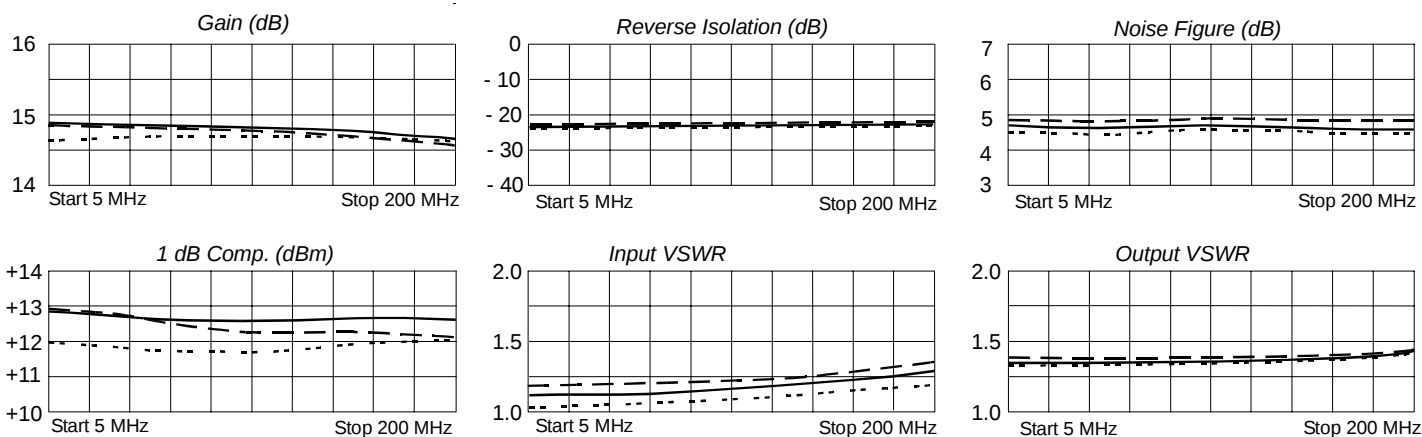
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +40 dBm (Typ.)
 Second Order Two Tone Intercept Point +34 dBm (Typ.)
 Third Order Two Tone Intercept Point +26 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



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

Linear S-Parameters

FREQ. MHz	S11		S21		S12		S22	
	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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