

RF AMPLIFIER

MODEL CZ8205

Available as: CZ8205, 4 Pin TO-12 (T7)

Features

- Low Cost: 14 dB Gain Typical
- High Output Power: +21 dBm Typical

Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point+35 dBm (Typ.)
 Second Order Two Tone Intercept Point +30 dBm (Typ.)
 Third Order Two Tone Intercept Point +25 dBm (Typ.)

Specifications

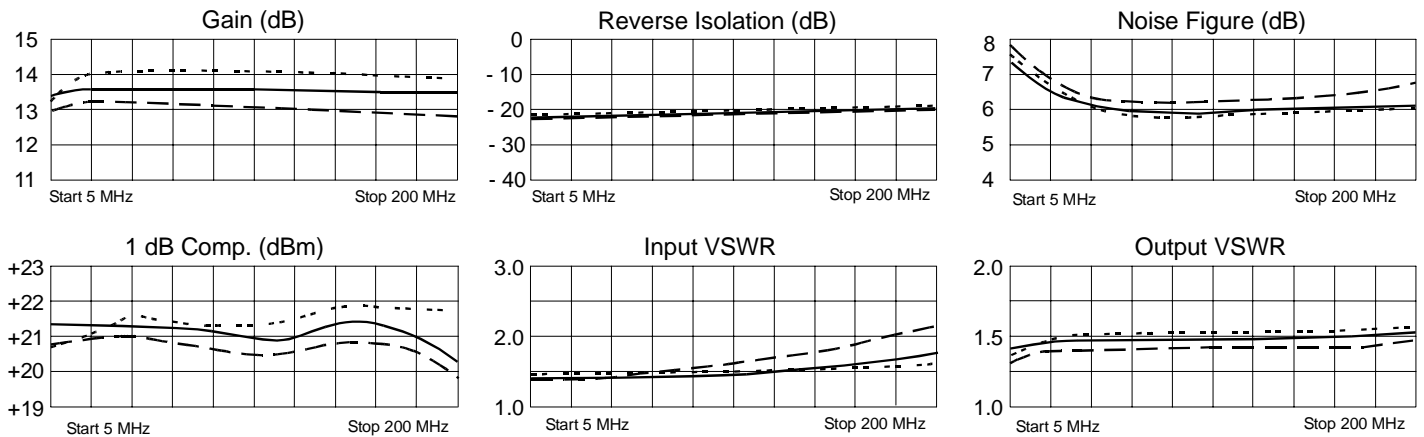
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = 05 °C to +70 °C
Frequency	5 - 200 MHz	5 - 200 MHz
Gain (dB)	13.5	12.0 Min.
Power @ 1 dB Comp. (dBm)	+21	+19.0 Min.
Reverse Isolation (dB)	-20	-18 Max.
VSWR In	<1.75:1	2.5:1 Max.
VSWR Out	<1.75:1	2.0:1 Max.
Noise figure (dB)	6.0	7.0 Max.
Power Vdc	+15	+15
mA	95	105 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 ... 200 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.2 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

Linear S-Parameters

FREQ. MHz	S11		S21		S12		S22	
	Mag	Deg	Mag	Deg	Mag	Deg	Mag	Deg
5	.14	-153	4.68	-172	.08	10	.14	47
25	.16	-167	4.99	176	.08	4	.18	- 0
50	.16	-164	5.01	167	.08	4	.18	- 18
100	.19	-159	5.03	152	.09	6	.18	- 46
150	.22	-153	5.04	138	.09	7	.19	- 73
200	.26	-151	5.03	123	.10	8	.20	-102
250	.31	-152	5.02	108	.11	8	.23	-132



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