

RF AMPLIFIER

MODEL CZ8203

Available as: CZ8203, 4 Pin TO-12 (T7)

Features

- High Gain: 20 dB Typical
- Medium Output Power: +9.5 dBm Typical

Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +45 dBm (Typ.)
 Second Order Two Tone Intercept Point +39 dBm (Typ.)
 Third Order Two Tone Intercept Point +21 dBm (Typ.)

Specifications

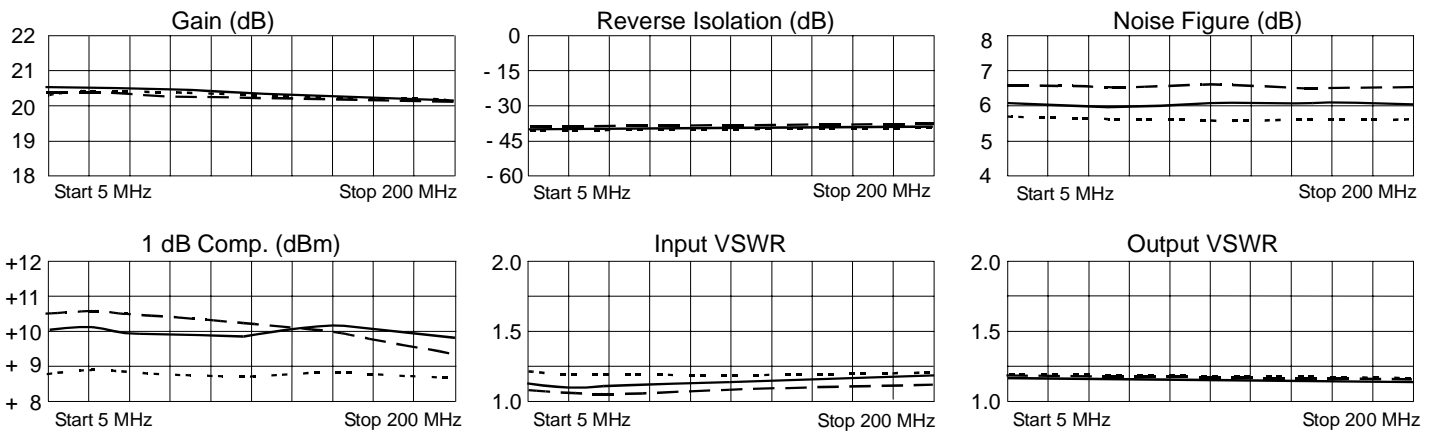
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = 0 °C to +70 °C
Frequency	5 - 200 MHz	5 - 200 MHz
Gain (dB)	20	19.0 Min.
Power @ 1 dB Comp. (dBm)	+9.5	+8.0 Min.
Reverse Isolation (dB)	-38	-36 Max.
VSWR In	<1.25:1	2.0:1 Max.
Out	<1.25:	12.0:1 Max.
Noise figure (dB)	6.0	7.0 Max.
Power Vdc	+15	+15 Max.
mA	62	66 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	.04	-164	10.66	3	.01	6	.06	-17
25	.04	-168	10.64	-7	.01	-5	.06	-7
50	.04	-162	10.61	-15	.01	9	.06	-6
100	.05	-145	10.50	-31	.01	8	.06	-7
150	.06	-134	10.32	-46	.01	17	.06	-10
200	.08	-127	10.14	-62	.01	18	.06	-11



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