

RF AMPLIFIER

MODEL CZ8206

Available as: CZ8206, 4 Pin TO-12 (T7)
 TN8206, 4 Pin Surface Mount (SM3)

Features

- 12 Volt Operation; High Gain: 32 dB Typical
- Low Noise Figure: <3.5 dB Typical

Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point +32 dBm (Typ.)
 Second Order Two Tone Intercept Point..... + 26 dBm (Typ.)
 Third Order Two Tone Intercept Point +15 dBm (Typ.)

Specifications

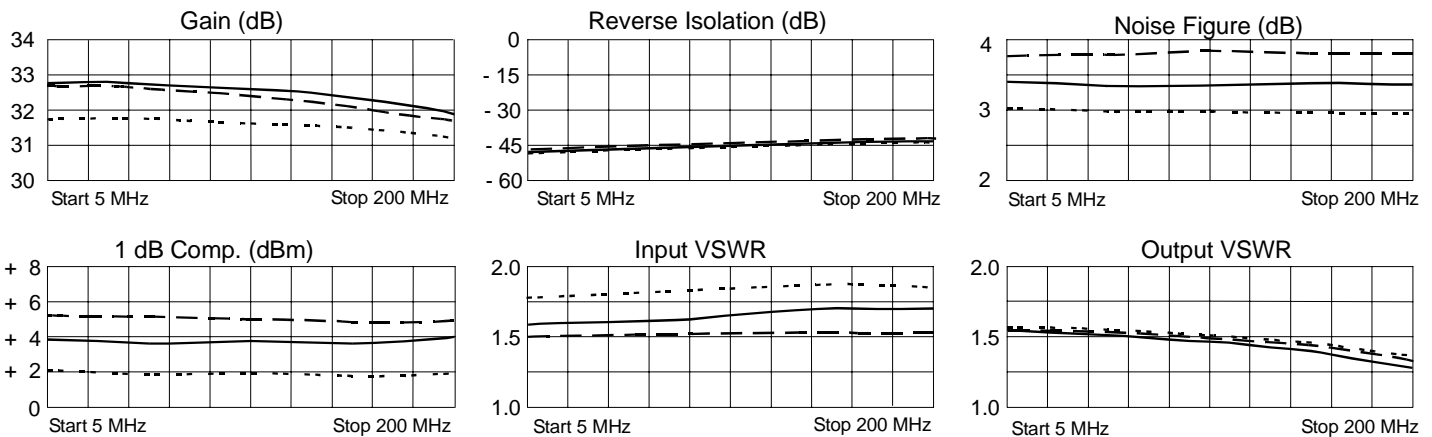
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = 0 °C to +70 °C
Frequency	5 - 200 MHz	5 - 200 MHz
Gain (dB)	32	30.0 Min.
Power @ 1 dB Comp. (dBm)	+3.5	+1.0 Min.
Reverse Isolation (dB)	-42	-40 Max.
VSWR In	<1.75:1	2.0:1 Max.
VSWR Out	<1.75:1	2.0:1 Max.
Noise figure (dB)	<3.5	4.0 Max.
Power Vdc	+12	+12
mA	30	35 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 + 6 dBm
 Short Term RF Input Power ... 100 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



Linear S-Parameters

FREQ. MHz	S11		S21		S12		S22	
	Mag	Deg	Mag	Deg	Mag	Deg	Mag	Deg
5	.22	-170	43.97	3	.01	36	.21	- 3
50	.23	-176	43.71	- 22	.01	24	.21	- 12
100	.24	-176	42.78	- 45	.01	- 18	.19	- 14
150	.26	-174	41.88	- 67	.01	5	.18	- 31
200	.25	-179	39.53	- 90	.01	30	.13	- 31
250	.26	-177	36.66	-112	.01	30	.10	- 31
300	.25	-175	33.40	-134	.01	54	.05	- 18



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532 11/03/04

www.SpectrumMicrowave.com Spectrum Microwave (Europe) · 2707 Black Lake Place · Philadelphia, Pa. 19154 · PH (215) 464-4000 · Fax (215) 464-4001