RF AMPLIFIER
MODEL *TZ9206*

Available as: TZ9206, 4 Pin TO-8 (T4)
TN9206, 4 Pin Surface Mount (SM3)
FP9206, 4 Pin Flatpack (FP4)
BX9206, Connectorized Housing (H1)

Features

- Low Cost; High Gain: 24 dB Typ.
- Medium Noise Figure: <4.5 dB Typ.
- Operating Temp. -55 ºC to +85 ºC
- Environmental Screening Available

Typical Intermodulation Performance at 25 º C

Second Order Harmonic Intercept Point ..... +42 dBm (Typ.)
Second Order Two Tone Intercept Point ..... +34 dBm (Typ.)
Third Order Two Tone Intercept Point ..... +18 dBm (Typ.)

Specifications

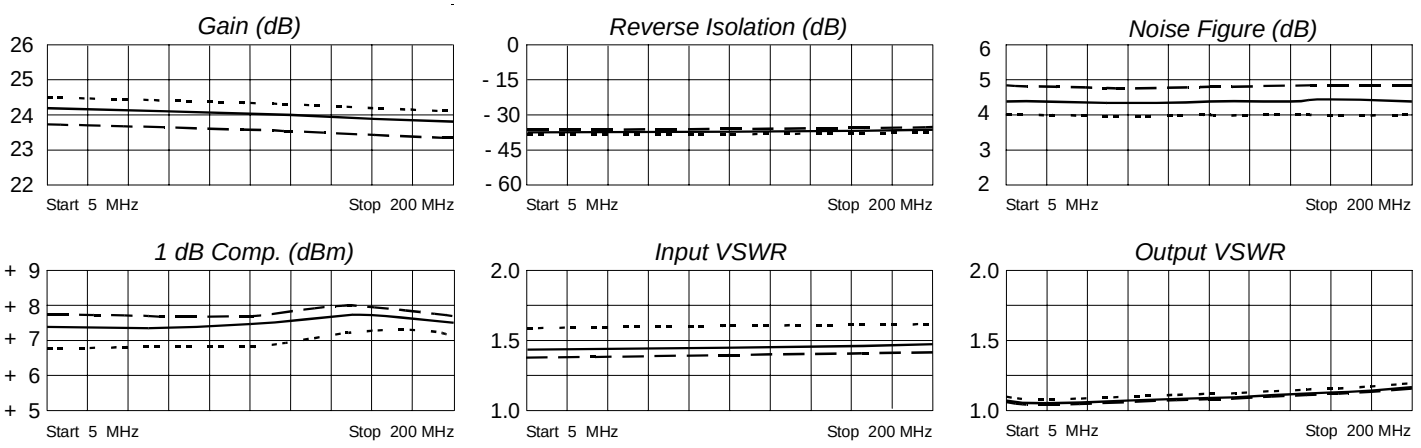
CHARACTERISTIC	TYPICAL Ta= 25 ºC	MIN/MAX Ta = -55 ºC to +85 ºC
Frequency	5 - 200 MHz	5 - 200 MHz
Gain (dB)	24	22.0 Min.
Power @ 1 dB Comp. (dBm)	+7.5	+6.0 Min.
Reverse Isolation (dB)	-35	-33 Max.
VSWR In Out	<1.5:1 <1.25:1	2.0:1 Max. 2.0:1 Max.
Noise figure (dB)	<4.5	5.5 Max.
Power Vdc mA	+15 37	+15 41 Max.

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

Maximum Ratings

Ambient Operating Temperature ..... -55ºC to + 100 ºC
Storage Temperature ..... -62ºC to + 125 ºC
Case Temperature ..... + 125 ºC
DC Voltage ..... + 18 Volts
Continuous RF Input Power ..... + 6 dBm
Short Term RF Input Power..... 50 Milliwatts (1 Minute Max.)
Maximum Peak Power ..... 0.5 Watt (3 µsec Max.)

Typical Performance Data



Legend ——— *+ 25 ºC* – – – *+ 85 ºC* - - - - - - *-55 ºC*

Linear S-Parameters

FREQ. MHz	S11 Mag	S11 Deg	S21 Mag	S21 Deg	S12 Mag	S12 Deg	S22 Mag	S22 Deg
5	.18	-172	16.09	5	0.02	8	.02	-114
10	.18	-176	16.13	0	0.01	6	.01	-128
50	.18	178	16.04	-17	0.01	1	.02	-142
100	.19	174	15.82	-35	0.01	10	.03	-157
150	.19	170	15.59	-52	0.01	6	.05	-173
200	.19	165	15.31	-69	0.02	8	.07	173
250	.19	160	15.02	-86	0.02	10	.11	160

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