

RF AMPLIFIER

MODEL TZ9201

Available as: TZ9201, 4 Pin TO-8 (T4)
 TN9201, 4 Pin Surface Mount (SM3)
 FP9201, 4 Pin Flatpack (FP4)
 BX9201, Connectorized Housing (H1)

Features

- Low Cost; High Gain: 29.5 dB Typical
- Medium Output Power: +8 dBm Typical
- Operating Temp. -55 °C to +85 °C
- Environmental Screening Available

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 +19 dBm (Typ.)

Specifications

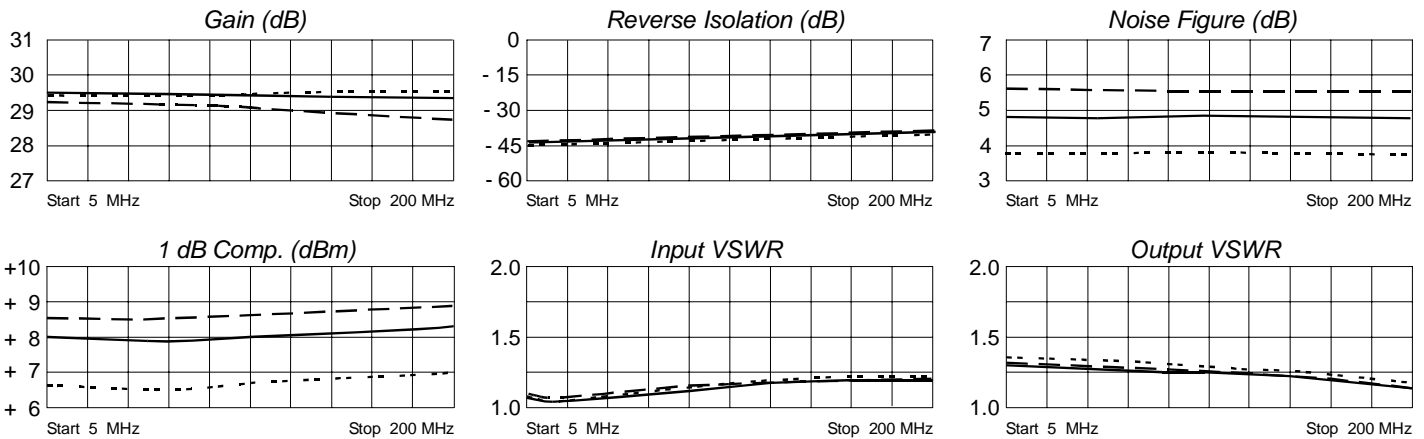
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	5 - 200 MHz	5 - 200 MHz
Gain (dB)	29.5	27.0 Min.
Power @ 1 dB Comp. (dBm)	+8	+6.0 Min.
Reverse Isolation (dB)	-40	-38 Max.
VSWR In	<1.25:1	2.0:1 Max.
VSWR Out	<1.5:1	2.0:1 Max.
Noise Figure (dB)	<5.0	6.0 Max.
Power Vdc	+15	+15
mA	35	40 Max.

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

Maximum Ratings

Ambient Operating Temperature -55°C to + 100 °C
 Storage Temperature -62°C to + 125 °C
 Case Temperature + 125 °C
 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



Linear S-Parameters

FREQ. MHz	S11		S21		S12		S22	
	Mag	Deg	Mag	Deg	Mag	Deg	Mag	Deg
5	.03	-60	29.89	2	.01	5	.13	-12
25	.03	-67	29.80	-11	.01	6	.13	-4
50	.04	-80	29.85	-24	.01	8	.12	-5
100	.07	-104	29.70	-48	.01	27	.11	-10
150	.08	-121	29.61	-72	.01	18	.09	-12
200	.08	-131	29.43	-97	.01	31	.06	-11



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