

RF AMPLIFIER

MODEL TZ9207

Available as: TZ9207, 4 Pin TO-8 (T4)
 TN9207, 4 Pin Surface Mount (SM3)
 FP9207, 4 Pin Flatpack (FP4)
 BX9207, Connectorized Housing (H1)

Features

- High Gain: 28.5 dB Typical
- Operating Temp. -55 °C to +85 °C
- Environmental Screening Available

Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +39 dBm (Typ.)
 Second Order Two Tone Intercept Point +33 dBm (Typ.)
 Third Order Two Tone Intercept Point +20 dBm (Typ.)

Specifications

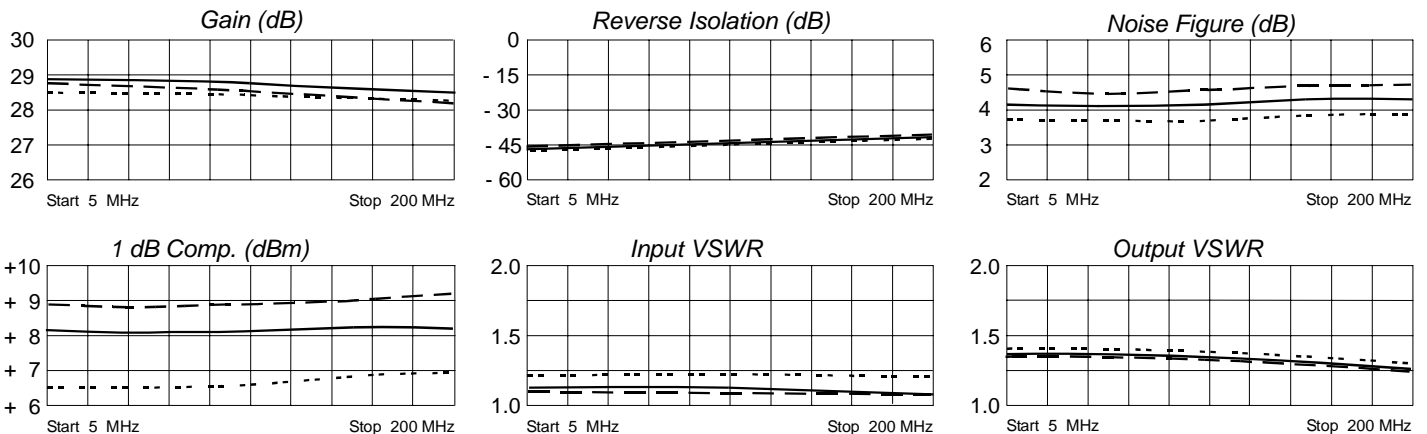
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	5 - 200 MHz	5 - 200 MHz
Gain (dB)	28.5	26.0 Min.
Power @ 1 dB Comp. (dBm)	+8	+6.0 Min.
Reverse Isolation (dB)	-41	-39 Max.
VSWR In	<1.25:1	2.0:1 Max.
VSWR Out	<1.5:1	2.0:1 Max.
Noise figure (dB)	<5.0	6.0 Max.
Power Vdc	+12	+12
mA	38	42 Max.

Maximum Ratings

Ambient Operating Temperature -55°C to + 100 °C
 Storage Temperature -62°C to + 125 °C
 Case Temperature + 125 °C
 DC Voltage + 15 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.)

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

Typical Performance Data



Legend ——— + 25 °C - - - - + 85 °C ······ -55 °C

Linear S-Parameters

FREQ. MHz	S11		S21		S12		S22	
	Mag	Deg	Mag	Deg	Mag	Deg	Mag	Deg
5	.13	-168	33.89	2	0.01	8	.17	-8
10	.13	-176	33.82	2	0.00	-19	.17	-7
50	.13	176	33.66	-22	0.01	26	.16	-20
100	.12	167	33.12	-45	0.01	22	.15	-41
150	.11	159	32.59	-68	0.01	25	.14	-63
200	.08	150	31.82	-90	0.01	30	.13	-92



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