

RF AMPLIFIER

MODEL TZ9211

Available as: TZ9211, 4 Pin TO-8 (T4)
 TN9211, 4Pin Surface Mount (SM3)
 FP9211, 4 Pin Flatpack (FP4)
 BX9211, Connectorized Housing (H1)

Features

- Output Power: + 16 dBm Typical
- High Gain: 27.5 dB Typical
- Operating Temp. -55 °C to +85 °C
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	0.1 - 200 MHz	0.1 - 200 MHz
Gain (dB)	27.5	26.0 Min.
Power @ 1 dB Comp. (dBm)	+16	+15.0 Min.
Reverse Isolation (dB)	-41	-39 Max.
VSWR In	<1.25:1	2.0:1 Max.
VSWR Out	<1.25:1	2.0:1 Max.
Noise figure (dB)	<5.2	6.0 Max.
Power Vdc	+15	+15
mA	90	96 Max.

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

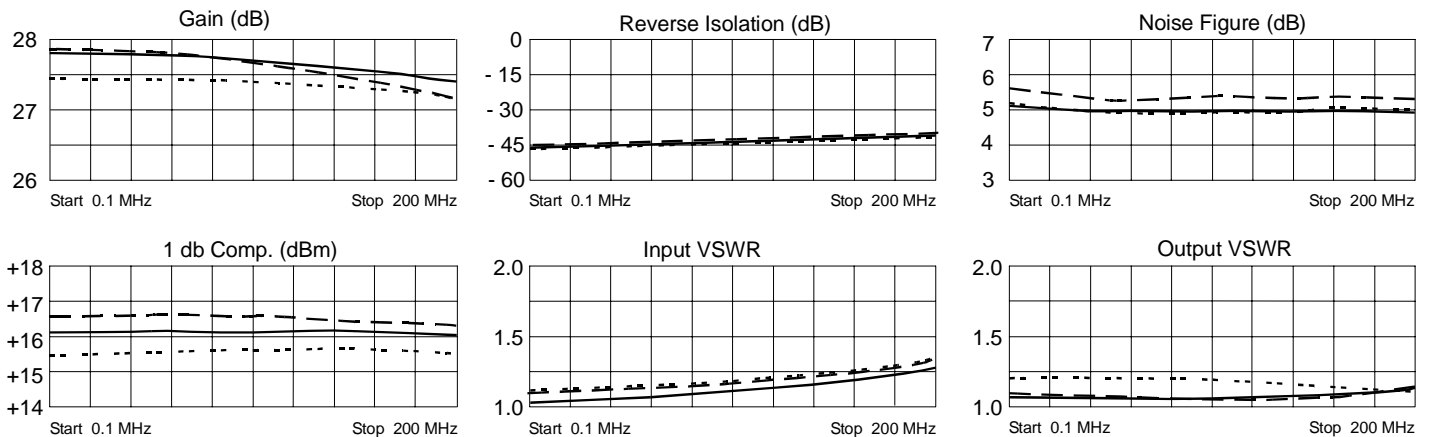
Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point +46 dBm (Typ.)
 Second Order Two Tone Intercept Point +40 dBm (Typ.)
 Third Order Two Tone Intercept Point +28 dBm (Typ.)

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 + 13 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 °C - - - - + 85 °C ······ -55 °C

Linear S-Parameters

FREQ. MHz	S11		S21		S12		S22	
	Mag	Deg	Mag	Deg	Mag	Deg	Mag	Deg
5	.05	-179	24.56	- 2	.01	- 3	.01	-166
25	.05	171	24.46	- 13	.01	18	.02	-137
50	.04	161	24.44	- 25	.01	29	.03	-136
100	.04	136	24.27	- 51	.01	22	.06	-145
150	.03	90	23.92	- 77	.01	45	.10	-166
200	.05	24	23.28	-104	.01	35	.14	176
250	.10	- 14	22.31	-130	.01	33	.19	161



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