RF AMPLIFIER
MODEL *TM9479*

Available as: TM9479, 4 Pin TO-8 (T4)
TN9479, 4 Pin Surface Mount (SM3)
FP9479, 4 Pin Flatpack (FP4)
BX9479, Connectorized Housing (H1)

Features

- High Gain: 8.3 dB Typical
- High Output Power: +22 dBm Typical
- Operating Temp. -55 ºC to +85 ºC
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 ºC	MIN/MAX Ta = -55 ºC to +85 ºC
Frequency	100 - 4000 MHz	100 - 4000 MHz
Gain (dB)	8.3	7.0 Min.
Gain Flatness (dB)	±0.3	±0.8 Max.
Power @ 1 dB Comp. (dBm)	+22.0	+20.0 Min.
Reverse Isolation (dB)	-16	-15 Max.
VSWR In Out	1.4:1 1.4:1	2.0:1 Max. 2.0:1 Max.
Noise Figure (dB)	4.8	6.0 Max.
Power Vdc mA	+15 115	+15 126 Max.

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

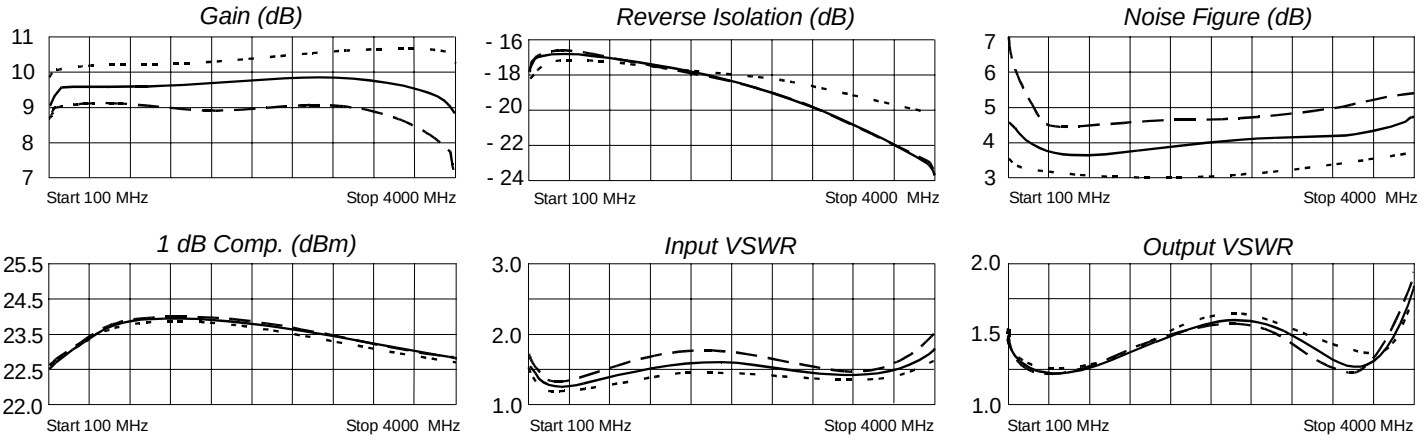
Typical Intermodulation Performance at 25 º C

Second Order Harmonic Intercept Point ..... +61 dBm (Typ.)
Second Order Two Tone Intercept Point ..... +55 dBm (Typ.)
Third Order Two Tone Intercept Point ..... +36 dBm (Typ.)

Maximum Ratings

Ambient Operating Temperature ..... -55ºC to + 100 ºC
Storage Temperature ..... -62ºC to + 125 ºC
Case Temperature ..... + 105 ºC
DC Voltage ..... + 17 Volts
Continuous RF Input Power ..... + 15 dBm
Short Term RF Input Power .... 100 Milliwatts (1 Minute Max.)
Maximum Peak Power ..... 0.25 Watt (3 µsec Max.)

Typical Performance Data



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

Linear S-Parameters

FREQ.	S11		S21		S12		S22	
MHz	Mag	Deg	Mag	Deg	Mag	Deg	Mag	Deg
100	.24	41	2.82	-152	.13	29	.22	94
880	.19	-123	3.01	80	.14	-86	.13	-14
1660	.24	152	3.00	-15	.13	-169	.20	-113
2440	.21	62	3.07	-111	.12	110	.23	163
3220	.21	-44	3.06	146	.11	20	.13	50
4000	.36	-143	2.72	29	.07	-75	.30	-141

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