

RF AMPLIFIER

MODEL *TM6619*

Available as: TM6619, 4 Pin TO-8 (T4)
 TN6619, 4 Pin Surface Mount (SM3)
 BX6619, Connectorized Housing (H1)

Features

- Low Noise Figure: 3.5 dB Typical
- Higher Output Power: +21.8 dBm 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	3 - 600 MHz	5 - 500 MHz
Gain (dB)	27.5	26.0 Min.
Gain Flatness (dB)	<±0.25	±0.7 Max.
Power @ 1 dB Comp. (dBm)	+21.8	+20.0 Min
Reverse Isolation (dB)	-38	-35 Max.
VSWR In	1.4:1	1.8:1 Max.
Out	1.4:1	1.8:1 Max.
Noise Figure (dB)	3.5	5.0 Max.
Power Vdc	+15	+15
mA	127	140 Max.

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

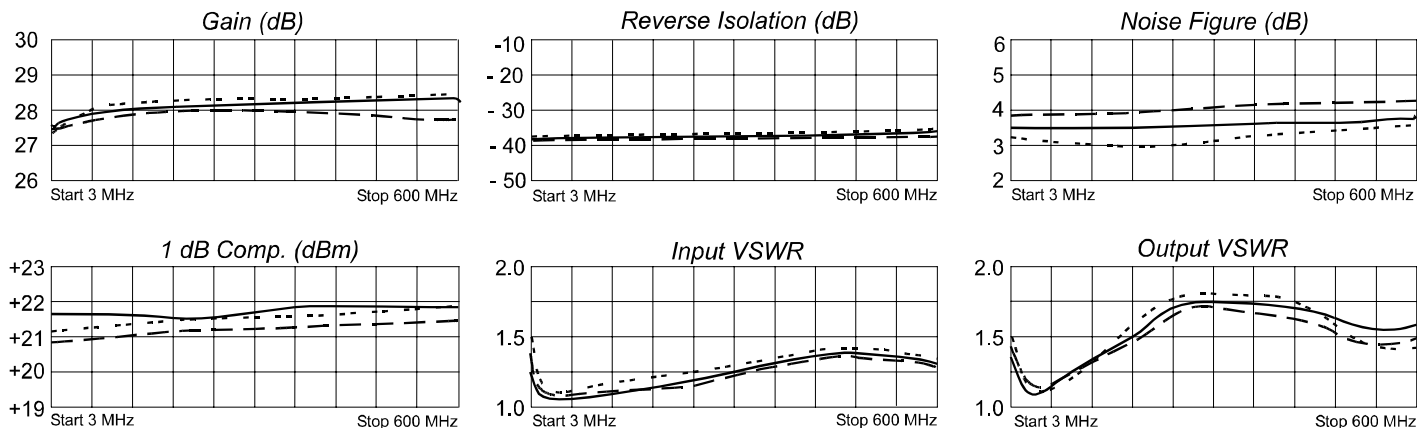
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +50 dBm (Typ.)
 Second Order Two Tone Intercept Point +44 dBm (Typ.)
 Third Order Two Tone Intercept Point +33 dBm (Typ.)

Absolute Maximum (No Damage) Ratings

Ambient Operating Temperature -55°C to +100 °C
 Storage Temperature -62°C to +125 °C
 Case Temperature +125 °C
 DC Voltage +19 Volts
 Continuous RF Input Power +13 dBm
 Short Term RF Input Power.... 100 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.5 Watt (3 µsec Max.)

Typical Performance Data



Legend ——— +25 °C - - - +85 °C -55 °C



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532

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www.SpectrumMicrowave.com Spectrum Microwave · 2707 Black Lake Place · Philadelphia, Pennsylvania 19154 · PH (215) 464-4000 · Fax (215) 464-4001