

RF AMPLIFIER

MODEL *TM6238*

Available as: TM6238, 4 Pin TO-8 (T4)
 TN6238, 4 Pin Surface Mount (SM3)
 FP6238, 4 Pin Flatpack (FP4)
 BX6238, Connectorized Housing (H1)

Features

- High Output Power: +23 dBm Typical
- High Third Order Intercept: +35 dBm Typical
- **Cross to Watkins-Johnson WJ-PA38 Amplifier**
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	200 - 2000 MHz	200 - 2000 MHz
Gain (dB)	10	8.0 Min.
Power @ 1 dB Comp. (dBm)	+23	+22 Min.
Reverse Isolation (dB)	-19	-17.0 Max.
VSWR In	<1.7:1	2.0:1 Max.
Out	<1.5:1	2.0:1 Max.
Noise figure (dB)	<4.0	5.2 Max.
Power Vdc	+15	+15
mA	150	160 Max.

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

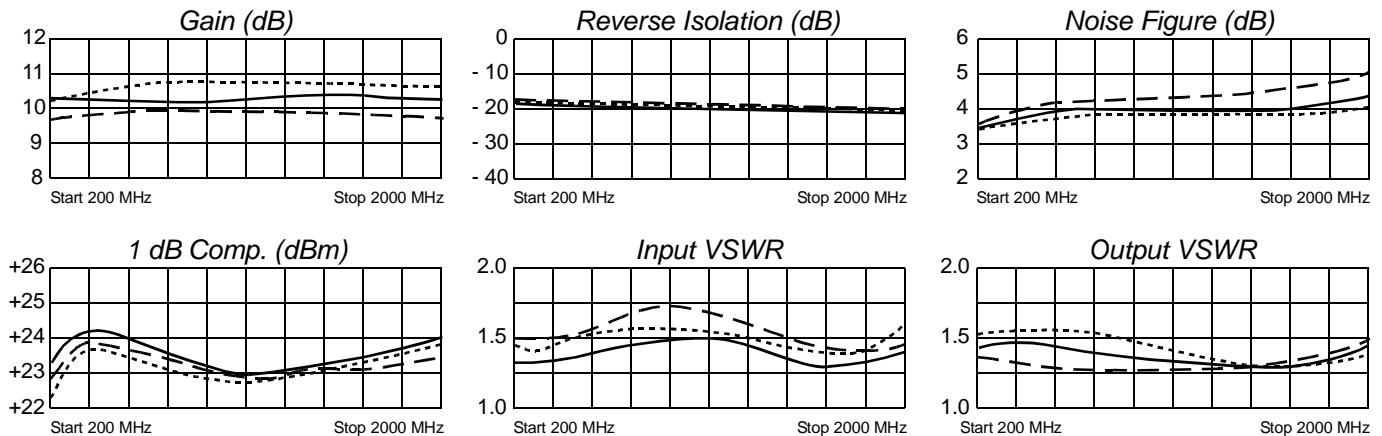
Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point+60 dBm (Typ.)
 Second Order Two Tone Intercept Point.....+56 dBm (Typ.)
 Third Order Two Tone Intercept Point +35 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 + 20 dBm
 Short Term RF Input Power ... 200 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.5 Watt (3 µsec Max.)

Typical Performance Data



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



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