

RF AMPLIFIER

MODEL *TM5138*

Available as: TM5138, 4 Pin TO-8 (T4)
 TN5138-3, 4 Pin Surface Mount (SM3)
 FP5138-4, 4 Pin Flatpack (FP4)
 BX5138, Connectorized Housing (H1)

Features

- High Output Power: +23.0 dBm Typical
- Low Noise Figure: 3.3 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	5 - 150 MHz	5 - 150 MHz
Gain (dB)	15.5	14.0 Min.
Power @ 1 dB Comp. (dBm)	+23.0	+21.0 Min.
Reverse Isolation (dB)	- 27	- 26 Max.
VSWR In	<1.6:1	1.8:1 Max.
VSWR Out	<1.6:1	1.8:1 Max.
Noise figure (dB)	3.3	4.0 Max.
Power Vdc	+15	+15
mA	90	95 Max.

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

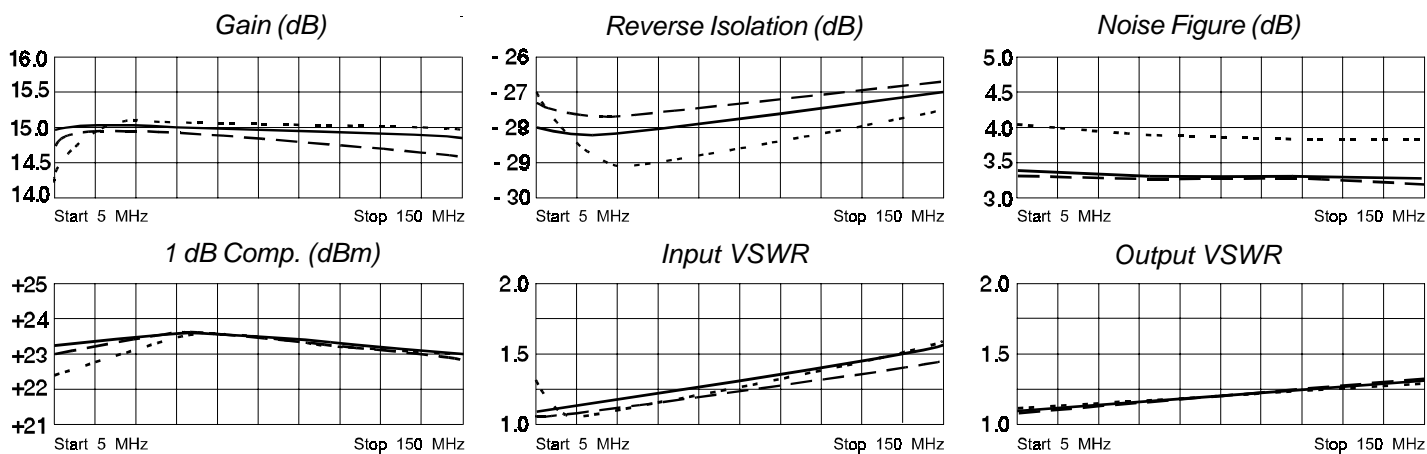
Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point +60 (Typ.)
 Second Order Two Tone Intercept Point +55 (Typ.)
 Third Order Two Tone Intercept Point +38 (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 + 18 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



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