

RF AMPLIFIER

MODEL *TM5180*

Available as: TM5180, 4 Pin TO-8 (T4)
 TN5180, 4 Pin Surface Mount (SM3)
 FP5180, 4 Pin Flatpack (FP4)
 BX5180, Connectorized Housing (H1)

Features

- Low Noise Figure: 3 dB Typical
- High Gain: 29 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	10 - 150 MHz
Gain (dB)	29	28 Min.
Power @ 1 dB Comp. (dBm)	+18.0	+17.0 Min.
Reverse Isolation (dB)	-35	-33 Max.
VSWR In	1.6:1	2.0:1 Max.
Out	1.6:1	2.0:1 Max.
Noise Figure (dB)	3.0	4.0 Max.
Power Vdc	+15	+15 Min.
mA	35	40 Max.

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

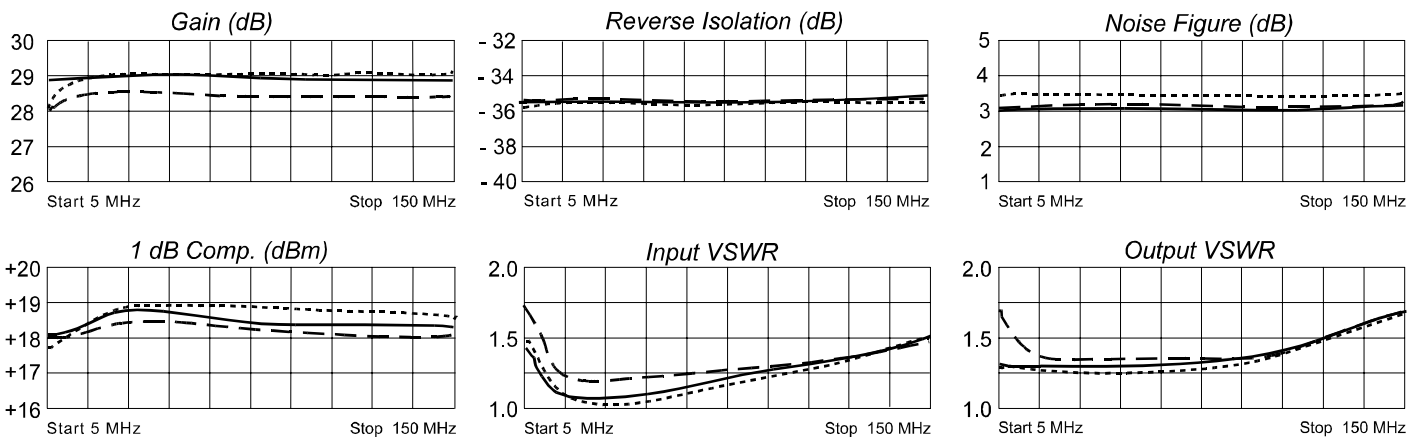
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point.....+44 dBm (Typ)
 Second Order Two Tone Intercept Point.....+42 dBm (Typ)
 Third Order Two Tone Intercept Point.....+32 dBm (Typ)

Maximum Ratings

Ambient Operating Temperature-55°C to +125 °C
 Storage Temperature-62°C to +150 °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 Watts (3 μsecMax.)

Typical Performance Data



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



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