

RF AMPLIFIER

MODEL *TM5145*

Available as: TM5145, 4 Pin TO-8 (T4)
 TN5145, 4 Pin Surface Mount (SM3)
 BX5145, Connectorized Housing (H1)

Features

- Excellent Reverse Isolation
- Operating Temp. - 55 °C to + 100 °C
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +100 °C
Frequency	10 - 150 MHz	10 - 150 MHz
Gain (dB)	13.0	12.5 Min.
Power @ 1 dB Comp. (dBm)	+17.5	+ 16 Min.
Reverse Isolation (dB)	-32	-30.0 Max.
VSWR In	1.2:1	1.5:1 Max.
Out	1.4:1	1.5:1 Max.
Noise figure (dB)	5.8	6.5 Max.
Power Vdc	+15	+15 Min.
mA	47	48 Max.

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

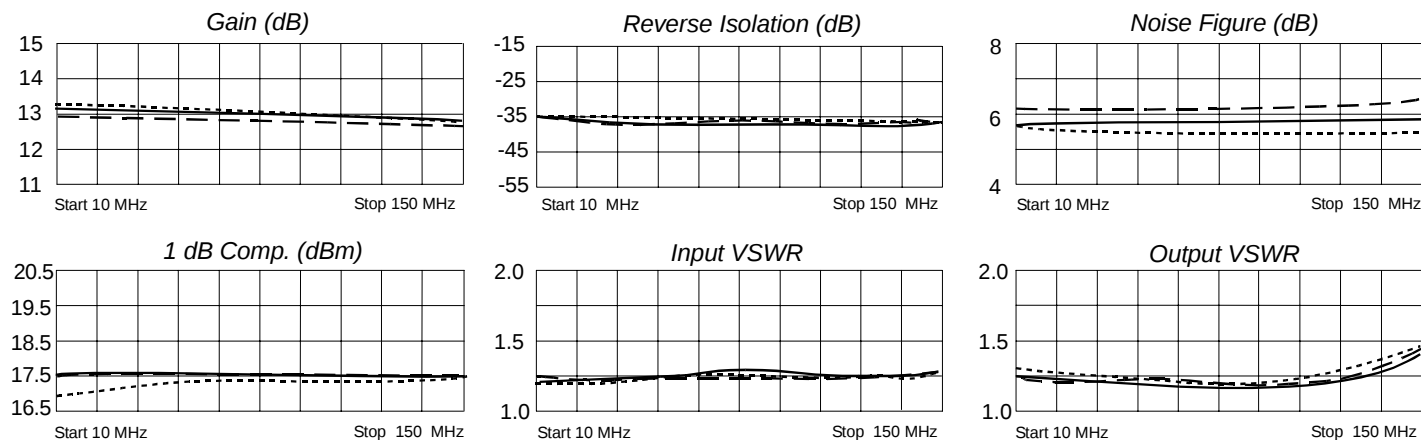
Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point +51 dBm (Typ.)
 Second Order Two Tone Intercept Point +46 dBm (Typ.)
 Third Order Two Tone Intercept Point +34 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 Watt (3 µsec Max.)

Typical Performance Data



Legend — + 25 °C --- + 100 °C -55 °C

