

RF AMPLIFIER

MODEL *TM5841*

Available as: TM5841, 4 Pin TO-8 (T4)
 TN5841, 4 Pin Surface Mount (SM3)
 FP5841, 4 Pin Flatpack (FP4)
 BX5841, Connectorized Housing (H1)

Features

- Low Noise Figure: 1.5 dB Typical
- High Gain: 19 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	5-100 MHz	5-100 MHz
Gain (dB)	19 ± 0.5	18 Min./ 20 Max.
Power @ 1 dB Comp. (dBm)	+4.5	+3 Min.
Reverse Isolation (dB)	-33	-30 Max.
VSWR	In 1.5:1 Out 1.8:1	2.0:1 Max. 2.0:1 Max.
Noise figure (dB)	1.5	1.8 Max.
Power	Vdc +15 mA 13	+15 15 Max.

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

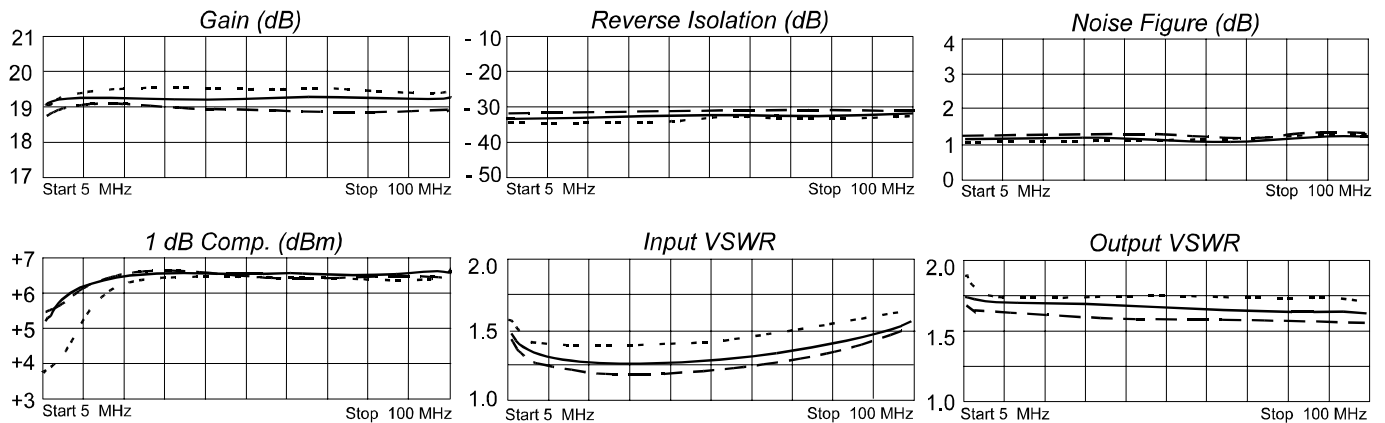
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +29 dBm (Typ.)
 Second Order Two Tone Intercept Point +24 dBm (Typ.)
 Third Order Two Tone Intercept Point +17 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 +20 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

