

RF AMPLIFIER

MODEL *TM3017*

Available as: TM3017, 4 Pin TO-8 (T4)
 TN3017, 4 Pin Surface Mount (SM3)
 FP3017, 4 Pin Flatpack (FP4)
 BX3017, Connectorized Housing (H1)

Features

- 10 Volt Operation
- Low Noise Figure: <2.0 dB Typical
- Operating Temp. 0 °C to + 65 °C
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = 0 °C to +65 °C
Frequency	7 - 250 MHz	7 - 250 MHz
Gain (dB)	15.0	14 Min.
Power @ 1 dB Comp. (dBm)	+12.5	+11.0 Min.
Reverse Isolation (dB)	-19.5	-18 Max.
VSWR In	<1.5:1	2.0:1 Max.
Out	<1.75:1	2.0:1 Max.
Noise Figure (dB)	<2.0	3.0 Max.
Power Vdc	+10	+10
mA	20	25 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 +40 dBm (Typ.)
 Second Order Two Tone Intercept Point +34 dBm (Typ.)
 Third Order Two Tone Intercept Point +25 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 + 13 Volts
 Continuous RF Input Power + 13 dBm
 Short Term RF Input Power 50 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.2 Watt (3 µsec Max.)

Typical Performance Data

