

RF AMPLIFIER

MODEL *TM3011*

Available as: TM3011, 4 Pin TO-8 (T4)
 TN3011, 4 Pin Surface Mount (SM3)
 FP3011, 4 Pin Flatpack (FP4)
 BX3011, Connectorized Housing (H1)

Features

- Medium Gain: 18.5 dB Typical
- High Output Power: +22 dBm Typical
- Operating Temp. +5 °C to +95 °C
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = +5 °C to +95 °C
Frequency	5 - 250 MHz	5 - 250 MHz
Gain (dB)	18.5	17.5 Min.
Power @ 1 dB Comp. (dBm)	+22	+20 Min.
Reverse Isolation (dB)	-20	-17 Max.
VSWR In	<1.75:1	2.0:1 Max.
Out	<1.5:1	2.0:1 Max.
Noise Figure (dB)	<4.2	5.0 Max.
Power Vdc	+15	+15
mA	80	87 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 +49 dBm (Typ.)
 Second Order Two Tone Intercept Point +43 dBm (Typ.)
 Third Order Two Tone Intercept Point +36 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 + 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

