

RF AMPLIFIER

MODEL *TM9769*

Available as: TM9769, 4 Pin TO-8 (T4)
 TN9769, 4 Pin Surface Mount (SM3)
 FP9769, 4 Pin Flatpack (FP4)
 BX9769, Connectorized Housing (H1)

Features

- Higher Output Power: +23 dBm Typical
- Low Noise Figure: <2.5 dB Typical
- Operating Temp. - 55 °C to +85 °C

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	10 -1400 MHz	10 - 1300 MHz
Gain (dB)	12.5	11.5 Min.
Gain Flatness (dB)	+/- 0.2	+/- 0.5 Max.
Power @ 1 dB Comp. (dBm)	+23	+21.5 Min.
Reverse Isolation (dB)	-20	-18 Max.
VSWR In	<1.5:1 [^]	1.9:1 Max. [^]
Out	<1.7:1	2.0:1 Max.
Noise Figure (dB)	<2.5	3.5 Max.
Power Vdc	+15	+15 Min.
mA	100	110 Max.

Typical Intermodulation Performance at 25 °C

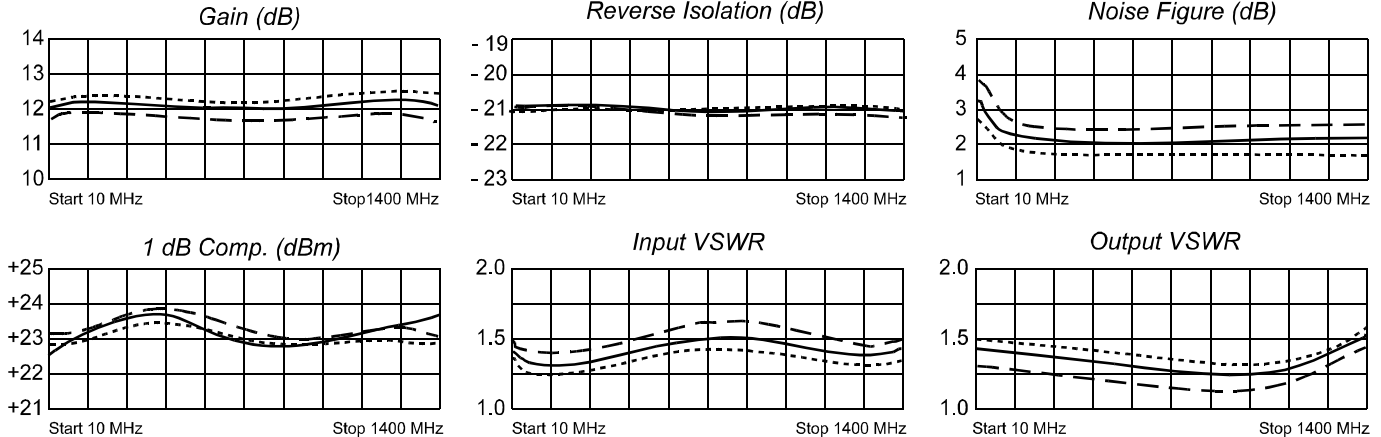
Second Order Harmonic Intercept Point +54 dBm (Typ.)
 Second Order Two Tone Intercept Point +49 dBm (Typ.)
 Third Order Two Tone Intercept Point +36 dBm (Typ.)

Maximum Ratings

Ambient Operating Temperature -55°C to +100 °C
 Storage Temperature -62°C to +125 °C
 Case Temperature +125 °C
 DC Voltage +17 Volts
 Continuous RF Input Power +20 dBm
 Short Term RF Input Power 250 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.5 Watt (3 µsec Max.)

Note: Care should always be taken to effectively ground the case of each unit.
[^]0.3 higher at 10 MHz

Typical Performance Data



Legend ——— +25 °C - - - +85 °C -55 °C

