

RF AMPLIFIER

MODEL *TM6677*

Available as: TM6677, 4 Pin TO-8 (T4)
 TN6677, 4 Pin Surface Mount (SM3)
 FP6677, 4 Pin Flatpack (FP4)
 BX6677, Connectorized Housing (H1)

Features

- Output Power: +16.5 dBm Typical
- High Third Order I.P.: +30 dBm 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 - 600 MHz	5 - 600 MHz
Gain (dB)	16.5	14.5 Min.
Power @ 1 dB Comp. (dBm)	+16.5	+14.5 Min.
Reverse Isolation (dB)	-17	-16 Max.
VSWR In	1.50:1	2.0:1 Max.
Out	1.50:1	2.0:1 Max.
Noise figure (dB)	5.0	7.0 Max.
Power Vdc	+15	+15
mA	50	56 Max.

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

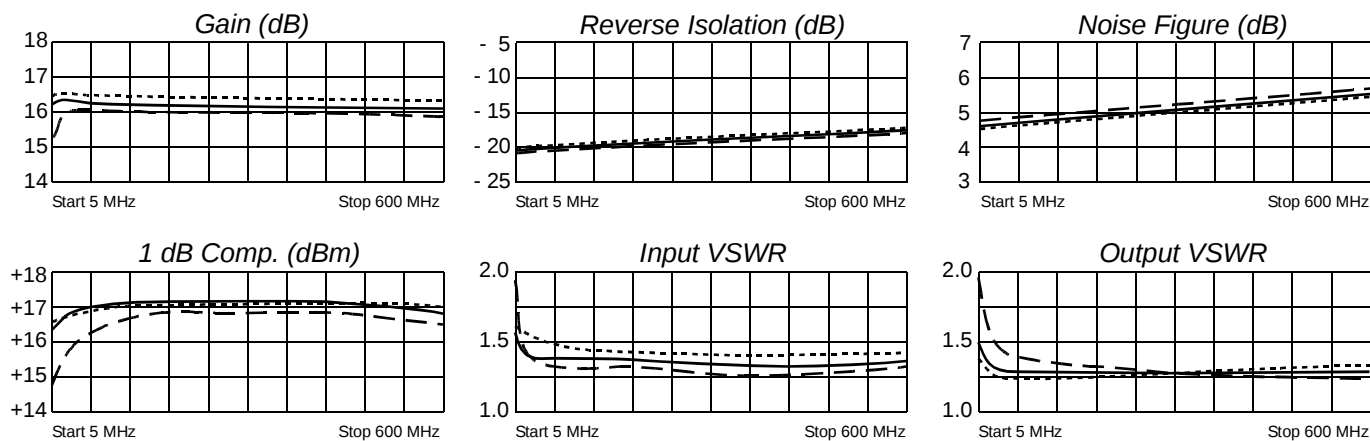
Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point +49 dBm (Typ.)
 Second Order Two Tone Intercept Point +43 dBm (Typ.)
 Third Order Two Tone Intercept Point +30 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 100 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.5 Watt (3 µsec Max.)

Typical Performance Data



Legend ——— + 25 °C - - - - + 85 °C -55 °C



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