

RF AMPLIFIER

MODEL *TM6656*

Available as: TM6656, 4 Pin TO-8 (T4)
 TN6656, 4 Pin Surface Mount (SM3)
 FP6656, 4 Pin Flatpack (FP4)
 BX6656, Connectorized Housing (H1)
PRELIMINARY

Features

- High Output Power: +27 dBm Typical
- Medium Gain: 14 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	10 - 300 MHz	10 - 300 MHz
Gain (dB)	14	12.5 Min.
Power @ 1 dB Comp. (dBm)	+27.0	+26.0 Min.
Reverse Isolation (dB)	-16	-15 Min.
VSWR In	<1.5:1	2.0:1 Max.
Out	<1.5:1	2.0:1 Max.
Noise Figure (dB)	4.5	6.0 Max.
Power Vdc	+15	+15
mA	160	170 Max.

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

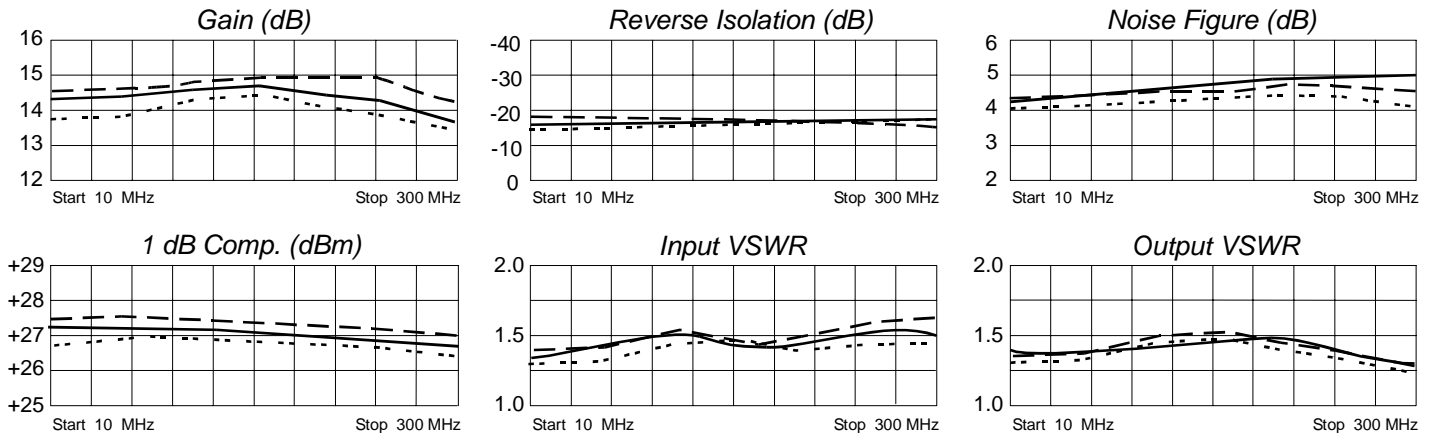
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point..... +58 dBm (Typ.)
 Second Order Two Tone Intercept Point..... +51 dBm (Typ.)
 Third Order Two Tone Intercept Point..... +40 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 + 18 dBm
 Short Term RF Input Power.... 100 Milliwatts (1 Minute Max.)
 Maximum Peak Power..... 0.2 Watt (3 µsec Max.)

Typical Performance Data



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



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