

RF AMPLIFIER

MODEL *TM6502*

Available as: TM6502, 4 Pin TO-8 (T4)
 TN6502, 4 Pin Surface Mount (SM3)
 BX6502, Connectorized Housing (H1)

Features

- High Gain: 21 dB Typical
- Medium Power: 19.5 dBm Typical
- Operating Temp. -55 °C to +85 °C
- Environmental Screening Available

Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point..... +51 dBm (Typ.)
 Second Order Two Tone Intercept Point..... +40 dBm (Typ.)
 Third Order Two Tone Intercept Point..... +35 dBm (Typ.)

Specifications

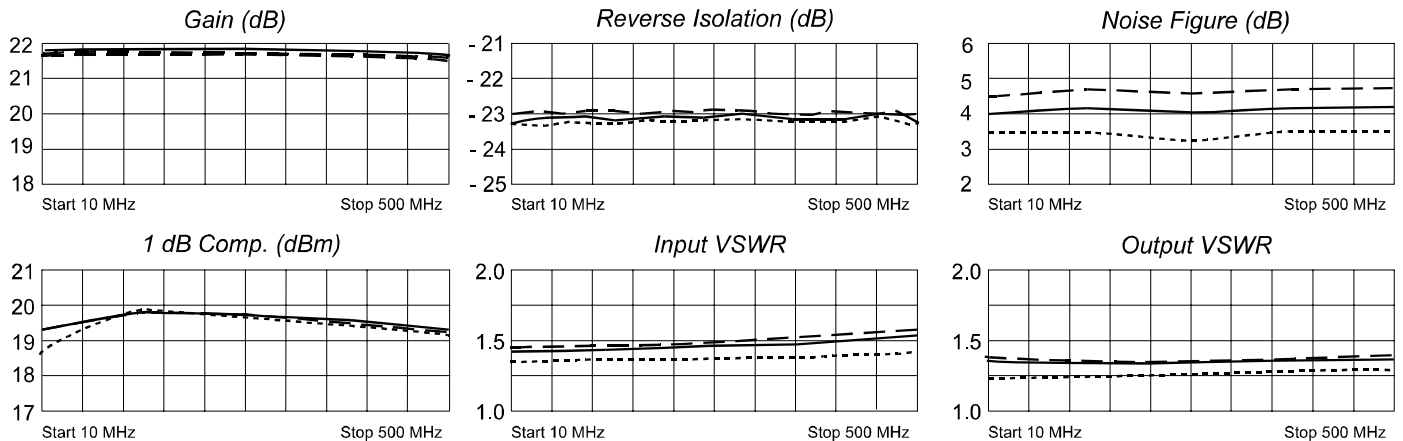
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	10 - 500 MHz	10 - 500 MHz
Gain (dB)	21	20 Min.
Power @ 1 dB Comp. (dBm)	+19.5	+18.5 Min.
Reverse Isolation (dB)	-23	-22 Max.
VSWR In	1.4:1	1.75:1 Max.
Out	1.3:1	1.75:1 Max.
Noise Figure (dB)	4.0	5.0 Max.
Power Vdc	+15	+15
mA	80	85 Max.

Absolute Maximum (No Damage) 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 +15 dBm
 Short Term RF Input Power.... 200 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.

Typical Performance Data



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



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Rev.
3/18/10

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