

# RF AMPLIFIER

## MODEL *TM6411*

Available as: TM6411, 4 Pin TO-8 (T4)  
 TN6411, 4 Pin Surface Mount (SM3)  
 FP6411, 4 Pin Flatpack (FP4)  
 BX6411, Connectorized Housing (H1)

### Features

- +5 V or +8 V Operation
- Low Noise Figure: <2.0 dB Typical @ +5 V
- Operating Temp. -55 °C to +85 °C
- Environmental Screening Available

### Typical Intermodulation Performance at 25 °C

**+5 V +8 V**

Second Order Harmonic Intercept Point ....+37 +46 dBm (Typ.)  
 Second Order Two Tone Intercept Point ....+32 +41 dBm (Typ.)  
 Third Order Two Tone Intercept Point .....+23 +30 dBm (Typ.)

### Specifications

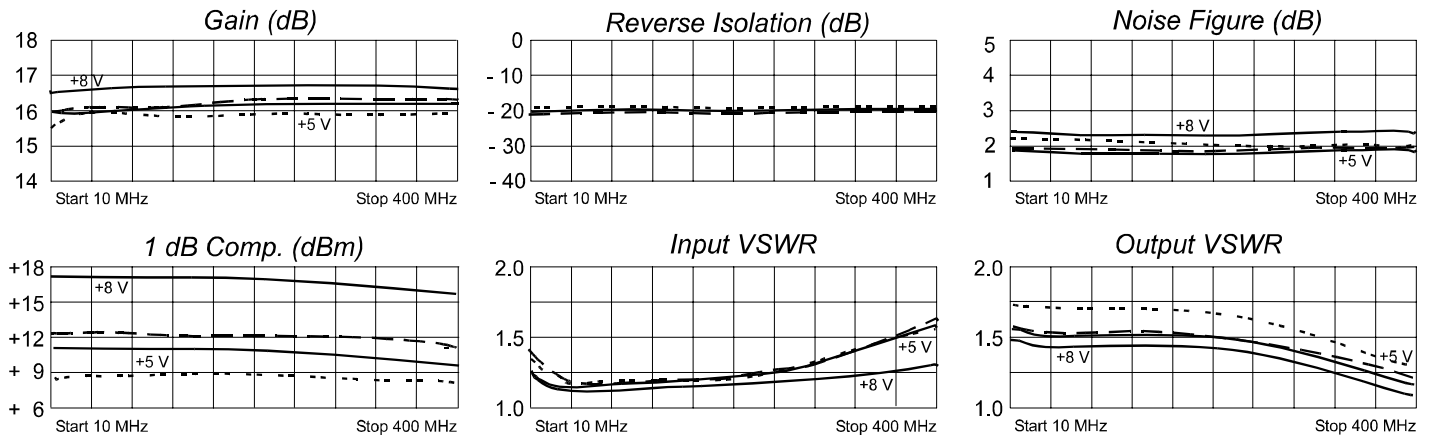
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	10 - 400 MHz	10 - 400 MHz
Gain (dB)	+5 V +8 V	14.5 Min. 15.0 Min.
Power @ 1 dB Comp. (dBm)	+5 V +8 V	+8 Min. +13.5 Min.
Reverse Isolation (dB)	-19	-18 Max.
VSWR	In Out	2.0:1 Max. 2.0:1 Max.
Noise Figure (dB)	+5 V +8 V	3.0 Max. 3.5 Max.
Power	Vdc mA	+5 +8 18 35 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 .....+10 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.)

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

### Typical Performance Data



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

