

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

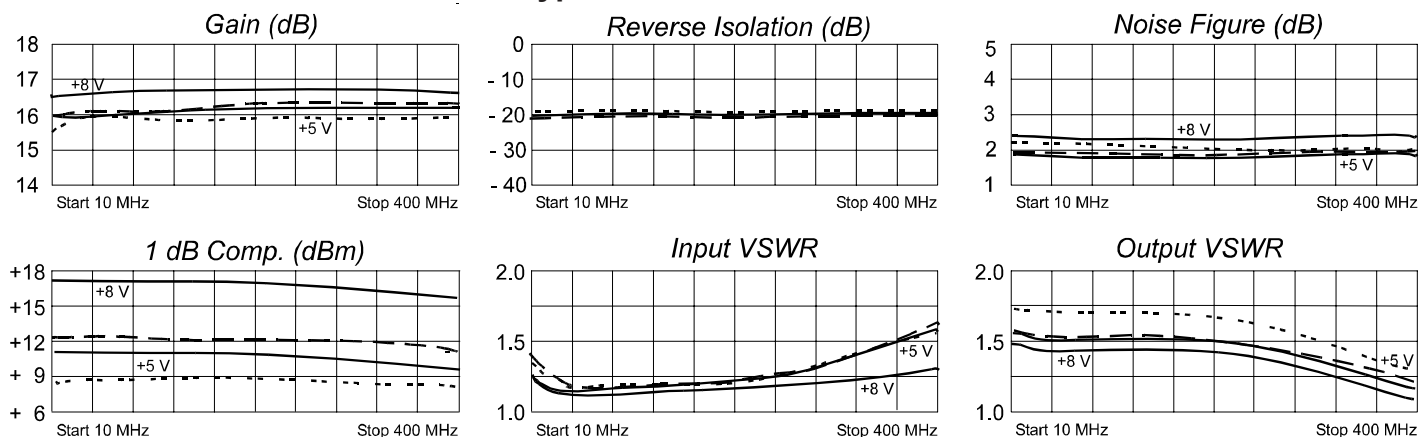
CHARACTERISTIC		TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency		10 - 400 MHz	10 - 400 MHz
Gain (dB)	+5 V	16	14.5 Min.
	+8 V	16.5	15.0 Min.
Power @ 1 dB Comp. (dBm)	+5 V	+10	+8 Min.
	+8 V	+15	+13.5 Min.
Reverse Isolation (dB)		-19	-18 Max.
VSWR	In	<1.5:1	2.0:1 Max.
	Out	<1.7:1	2.0:1 Max.
Noise Figure (dB)			
+5 V		<2.0	3.0 Max.
+8 V		<2.5	3.5 Max.
Power	Vdc	+5 +8	+5 +8
	mA	15.5 32	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



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