

# RF AMPLIFIER

## MODEL *TM3110*

Available as: TM3110, 4 Pin TO-8 (T4)  
 TN3110, 4 Pin Surface Mount (SM3)  
 BX3110, Connectorized Housing (H1L)

### Features

- Superior Phase Noise Performance
- High Output Power: +30 dBm Typical
- Operating Temp. -55 °C to +85 °C
- Environmental Screening Available

### Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point ..... +66 dBm (Typ.)  
 Second Order Two Tone Intercept Point ..... +63 dBm (Typ.)  
 Third Order Two Tone Intercept Point ..... +45 dBm (Typ.)

### 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 ..... +17 Volts  
 Continuous RF Input Power ..... +15 dBm  
 Short Term RF Input Power ..... 100 mW (1 Minute Max.)  
 Maximum Peak Power ..... 0.2 Watt (3 µsec Max.)

Note: Unit requires a 50 ohm termination at all times.

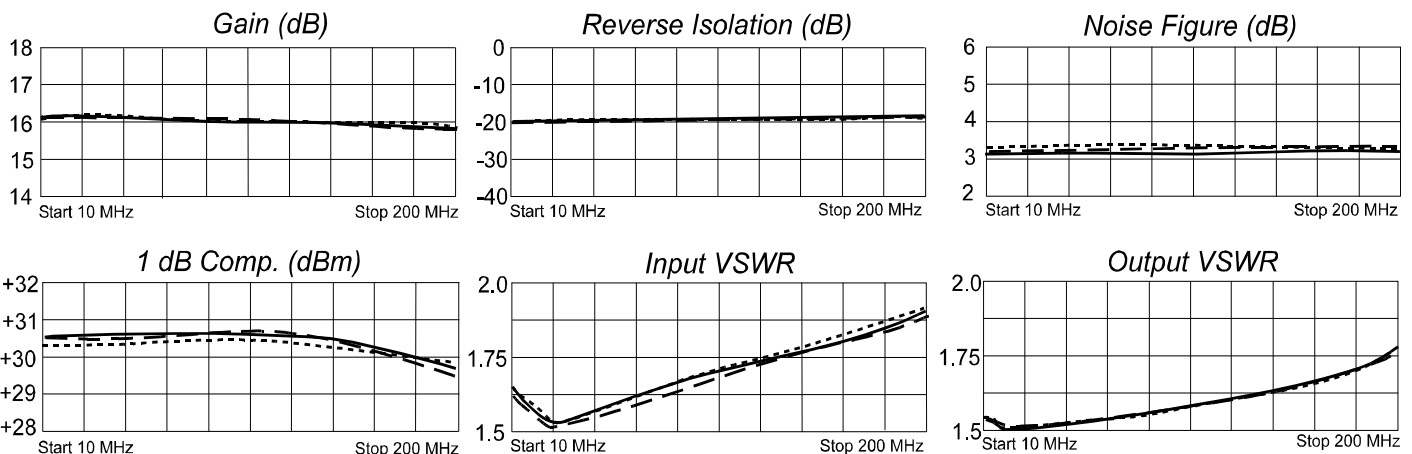
### Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency (MHz)	10 - 200 MHz	10 - 200 MHz
Gain (dB)	15.5	15 Min.
Power @ 1 dB Comp. (dBm)	+30	+29 Min.
Reverse Isolation (dB)	-17	-16 Max.
VSWR In	1.8:1	2.0:1 Max.
Out	1.8:1	2.0:1 Max.
Noise Figure (dB)	3.5	4.5 Max.
Power Vdc	+15	+15
mA	240	250 Max.

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

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### Typical Performance Data



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



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