

# RF AMPLIFIER

## MODEL TR6476

Available as: TR6476, 4 Pin TO-8B (T8)  
 RN6476, 4 Pin Surface Mount (SM19)  
 BR6476, Connectorized Housing (H2)

### Features

- High Gain: 29 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 - 450 MHz	10 - 450 MHz
Gain (dB)	29	28 Min.
Power @ 1 dB Comp. (dBm)	+16	+11 Min.
Reverse Isolation (dB)	-23	-22 Max.
VSWR In	1.5:1	2.0:1 Max.
VSWR Out	1.4:1	2.0:1 Max.
Noise Figure (dB)	2.7	3.5 Max.
Power Vdc	+8	+8
mA	65	70 Max.

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

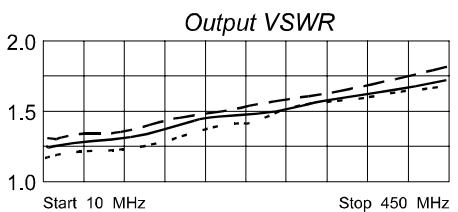
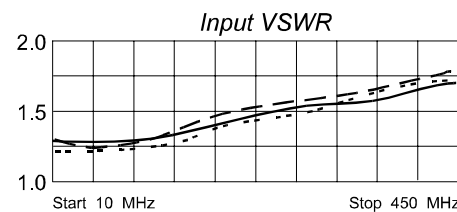
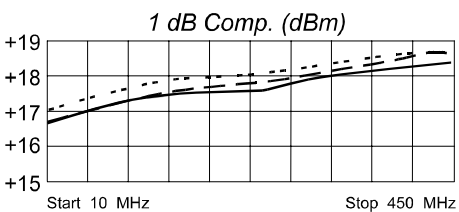
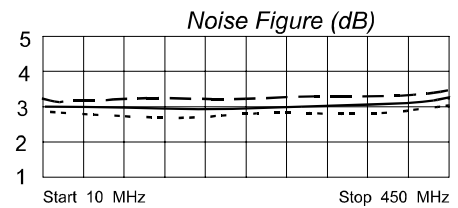
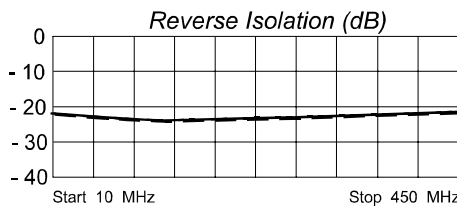
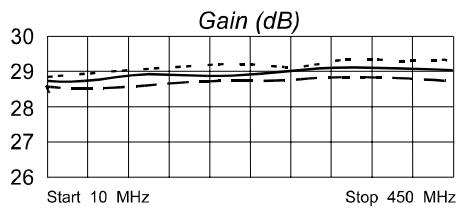
### Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point ..... +38 dBm (Typ.)  
 Second Order Two Tone Intercept Point ..... +33 dBm (Typ.)  
 Third Order Two Tone Intercept Point ..... +29 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 ..... +17 Volts  
 Continuous RF Input Power ..... +13 dBm  
 Short Term RF Input Power ... 200 Milliwatts (1 Minute Max.)  
 Maximum Peak Power ..... 0.5 Watt (3 μsec Max.)

### Typical Performance Data



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

