

RF AMPLIFIER

MODEL TR9666

Available as: TR9666, 4 Pin TO-8B (T8)
 RN9666, 4 Pin Surface Mount (SM19)
 BR9666, Connectorized Housing (H2)

Features

- High Gain: 33 dB Typical
- Low Noise Figure: 3.5 dB Typical
- No External Circuitry Needed

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	10 - 1000 MHz	10 - 1000 MHz
Gain (dB)	33	32.0 Min.
Power @ 1 dB Comp. (dBm)	+15.5	+14.0 Min.
Reverse Isolation (dB)	-40	---
VSWR In	1.5:1	2.0:1 Max.
VSWR Out	1.6:1	2.0:1 Max.
Noise figure (dB)	3.5	4.5 Max.
Power Vdc	+15	+15
mA	82	87 Max.

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

Typical Intermodulation Performance at 25 °C

Output Second Order Harmonic Intercept Point +37 dBm (Typ.)
 Output Second Order Two Tone Intercept Point +31 dBm (Typ.)
 Output Third Order Two Tone Intercept Point +25 dBm (Typ.)

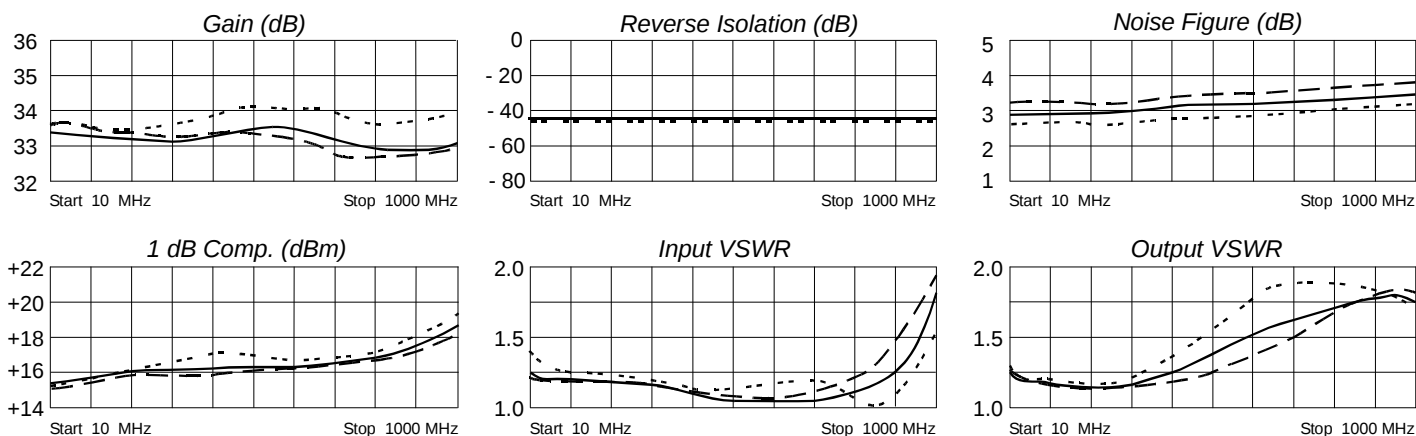
Maximum (No Damage) Ratings

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 + 13 dBm
 Short Term RF Input Power .. 100 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.5 Watt 3 µsec Max.)

Revision: 7/28/2016

ECN: Gain reduced from 37 dB to 33 dB. Reverse Isolation now 40 dB from 52 dB; Typical Value only for RI.

Typical Performance Data



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



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532

www.spectrummicrowave.com Spectrum Microwave · 2707 Black Lake Place · Philadelphia, Pa. 19154 · PH (215) 464-4000 · Fax (215) 464-4001