

RF AMPLIFIER

MODEL TR3054

Available as: TR3054, 4 Pin TO-8B (T8)
 RN3054, 4 Pin Surface Mount (SM19)
 BR3054, Connectorized Housing (H2)

Features

- High Gain: 24 dB Typical
- Output Power: 10.5 dBm Typical
- Operating Temp. - 30 °C to +65 °C
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -30 °C to +65 °C
Frequency	40-100 MHz	40-100 MHz
Gain (dB)	24	23 Min.
Power @ 1 dB Comp. (dBm)	10.5	10 Min.
Reverse Isolation (dB)	-15	-13 Max.
VSWR In	1.5:1	2.0:1 Max.
Out	1.5:1	2.0:1 Max.
Noise Figure (dB)	1.65	1.75 Max.
Power Vdc	+15	+15 Min.
mA	45	60 Max.

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

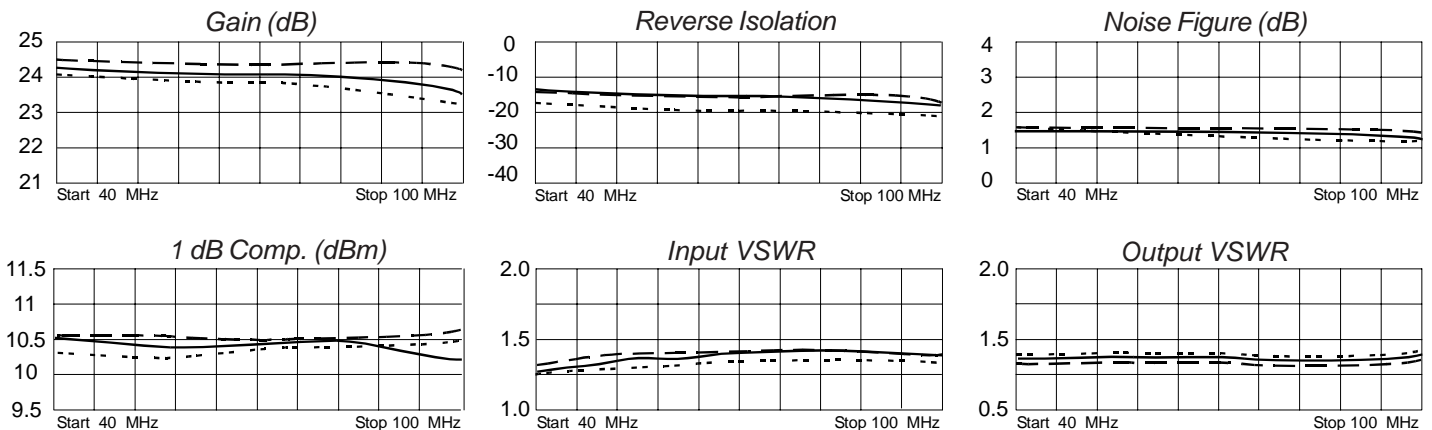
Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point.....+35 dBm (Typ.)
 Second Order Two Tone Intercept Point.....+30 dBm (Typ.)
 Third Order Two Tone Intercept Point.....+20 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 + 18 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.)

Typical Performance Data



Legend ——— + 25 °C - - - + 65 °C ······ -30 °C



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