

Available as:

TR7564, 4 Pin TO-8B Can (T8)
 RN7564, 4 Pin 0.525" Sq. Surface Mount (SM19)
 BR7564, SMA Connectorized Housing (H2)

RF/Microwave Amplifier

Features



- **Wide Bandwidth: 20-2600 MHz**
- **No External Circuitry Needed**
- **RoHS Compliant Model Available**
- **Unconditionally Stable**

Technical Specifications

Characteristic	TYPICAL Ta = +25°C	MIN/MAX Ta = -55°C to +85°C
Frequency	20 – 2600 MHz	20 – 2600 MHz
Gain (dB)	19	17.5 Min.
Gain Flatness (dB)	+/- 0.5	-
Power @ 1 dB Comp. (dBm)	+16.5	+15 Min.
Reverse Isolation (dB)	-35	--
VSWR	In	1.4:1
	Out	1.4:1
Noise Figure (dB) (200-2500 MHz)	3.5	4.5 Max.
Power	Vdc	+15
	mA	50
		58 Max.

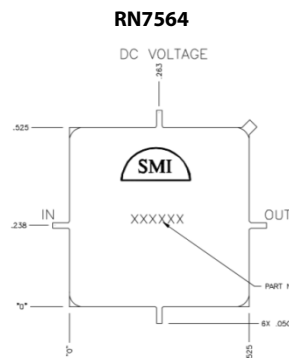
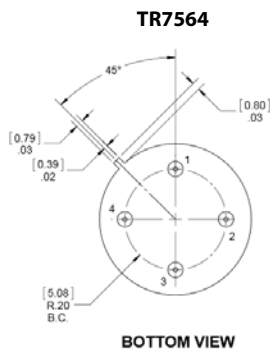
Typical Intermodulation* Performance at 25°C

Second Order Harmonic Intercept Point:	+45 dBm (Typ.)
Second Order Two Tone Intercept Point:	+39 dBm (Typ.)
Third Order Two Tone Intercept Point:	+27 dBm (Typ.)

*Note: Measured at the Midband Point .

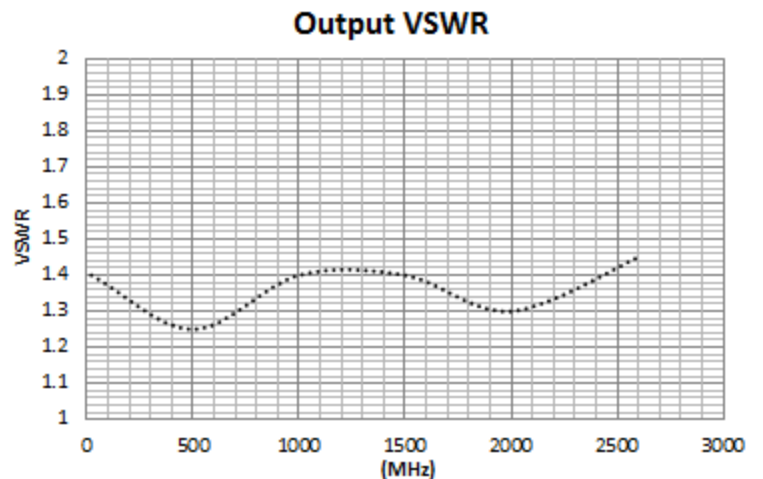
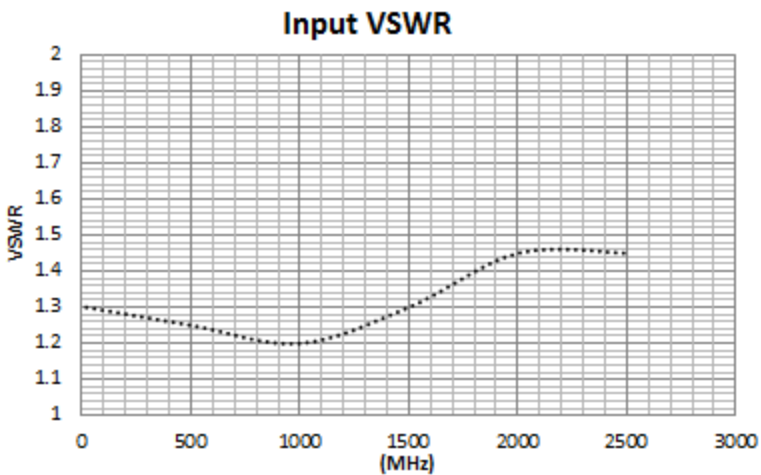
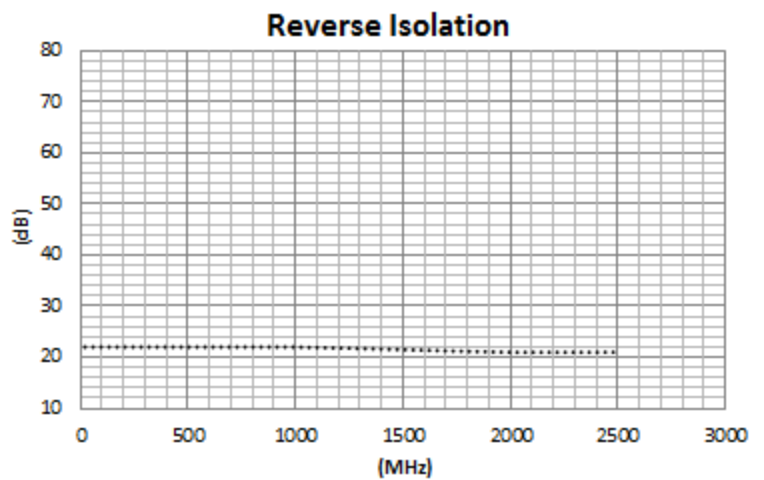
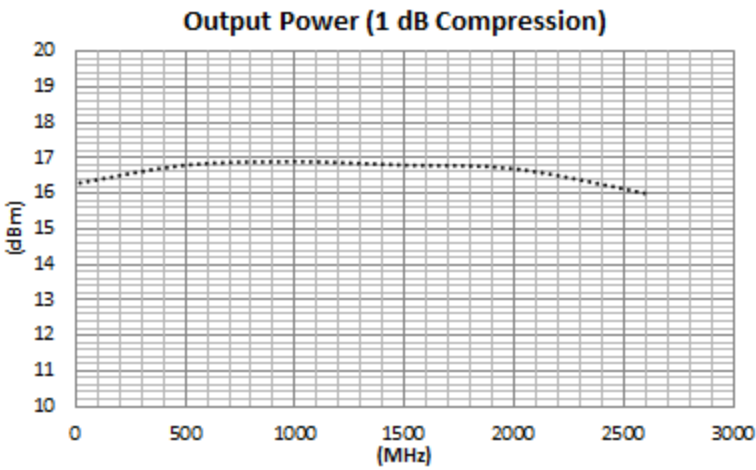
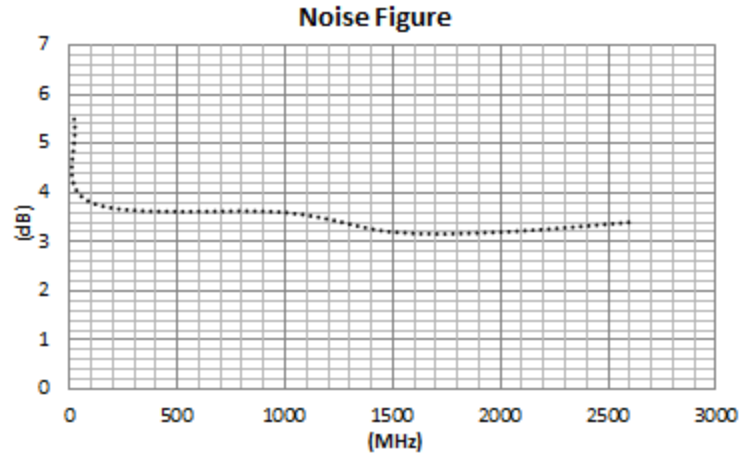
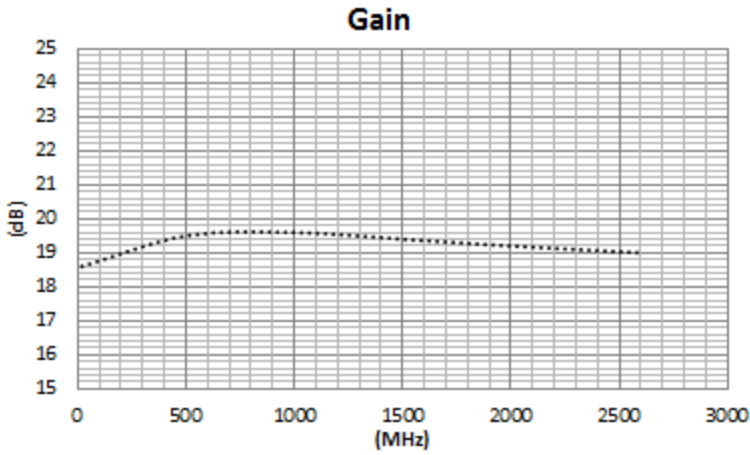
Absolute Maximum (No Damage) Ratings

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	+18 dBm
Short Term RF Input Power	200 Milliwatts (1 Minute Max.)
Maximum Peak Power	0.5 Watt (3 µsec Max.)



Grounding Instructions	Care should be taken to effectively ground each unit.
Revisions	API reserves the right to make revisions to both product and/or the information contained within their datasheets without advanced notice.
Min./Max. Values	Specifications are guaranteed when tested in a 50 Ω (ohm) system.
Typical performance graphs and values are measured at 25°C, but not guaranteed.	

Typical Performance Graphs



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