

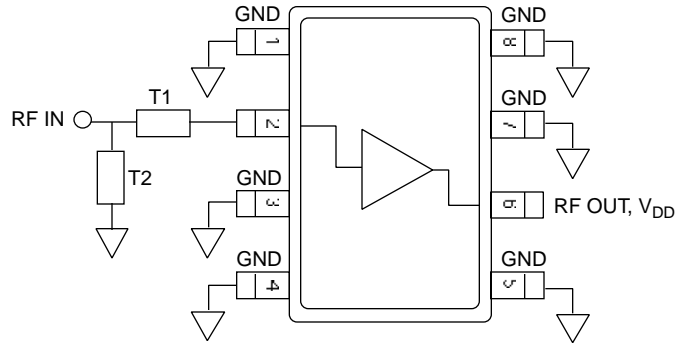


### Absolute Maximum Ratings<sup>1</sup>

Parameter	Absolute Maximum
V <sub>DD</sub>	+10 VDC
Input Power	+17 dBm
Channel Temperature <sup>2</sup>	+150°C
Operating Temperature	-40°C to 85°C
Storage Temperature	-65°C to 150°C

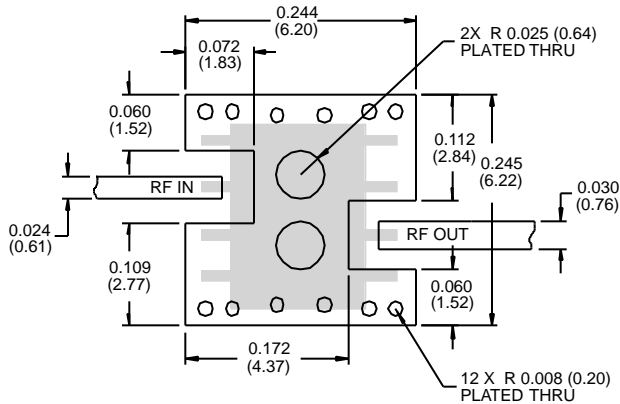
1. Operation of this device outside these limits may cause permanent damage.
2. Typical thermal resistance ( $\theta_{jc}$ ) = +165°C/W

### Functional Diagram



### Recommended PCB Configuration

Dimensions in inches (mm)

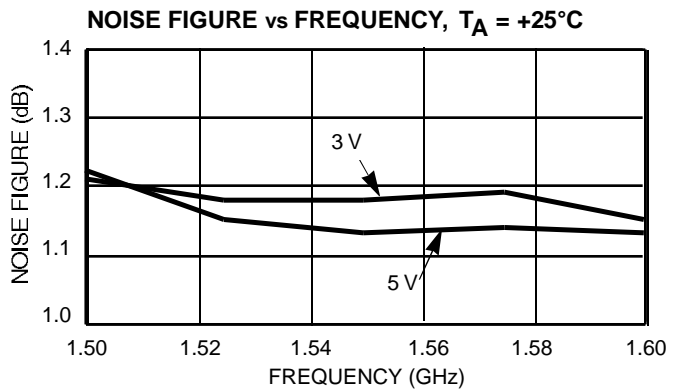
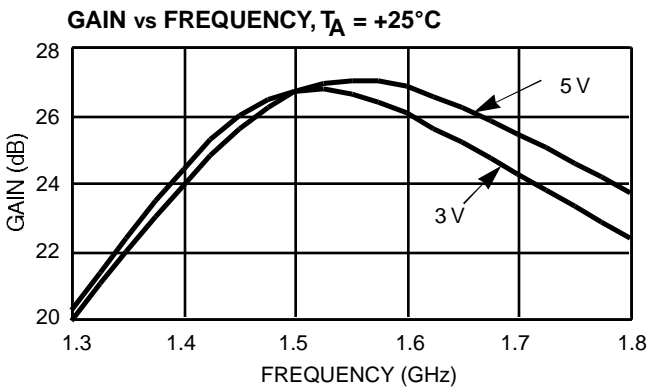


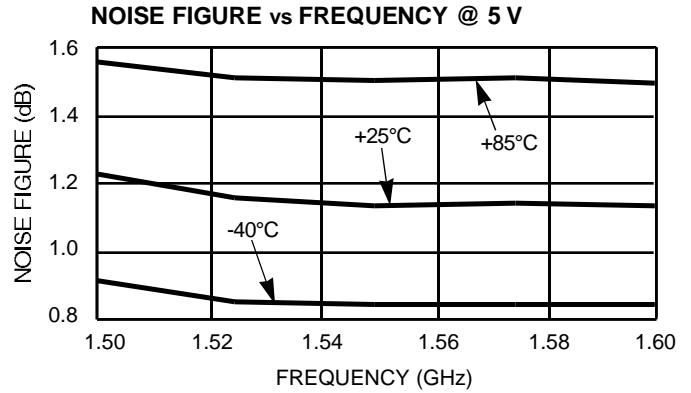
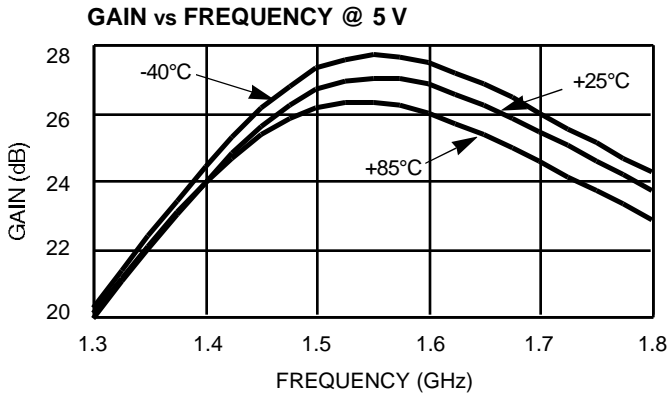
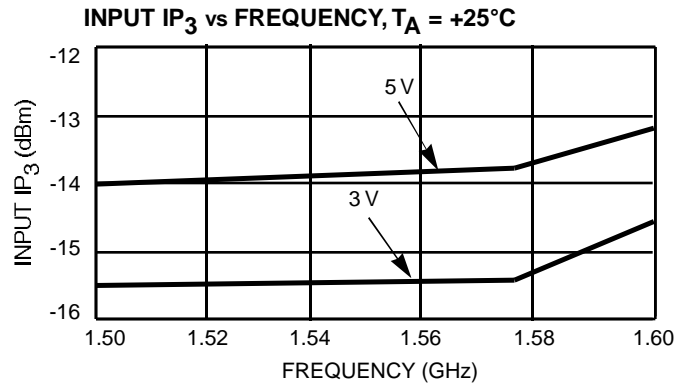
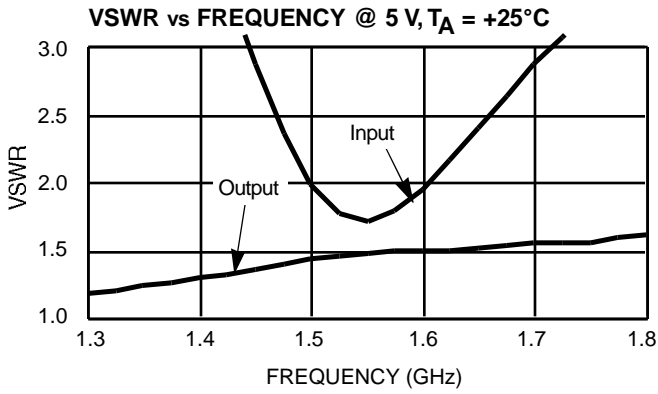
FR-4 circuit board, thickness = 0.016 inches (0.41)

	Frequency = 1.575 GHz	
	Impedance	Electrical Length
T1	57.2	36.0°
T2	82.7	16.2°

3. Pins 1, 3, 4, 5, 7 and 8 must be RF and DC grounded as shown.
4. Pin 2 is the RF input and must be connected to the simple matching network shown.
5. Pin 6 is the RF output. V<sub>DD</sub> is also applied on pin 6.

### Typical Performance





Additional information is available in Application Note M540, "M/A-COM GaAs MMIC LNA SOIC-8 Platform."