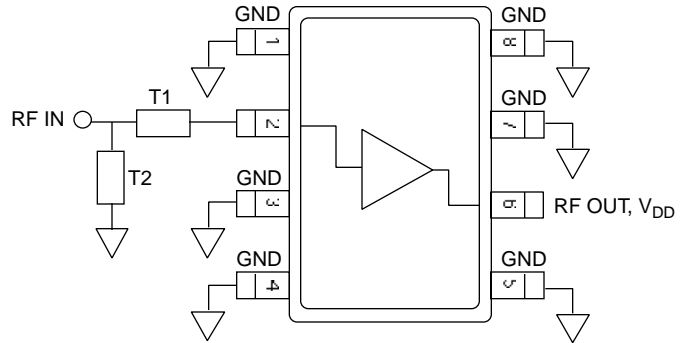


Absolute Maximum Ratings¹

| Parameter | Absolute Maximum |
|----------------------------------|------------------|
| V _{DD} | +10 VDC |
| Input Power | +17 dBm |
| Channel Temperature ² | +150°C |
| Operating Temperature | -40°C to 85°C |
| Storage Temperature | -65°C to 150°C |

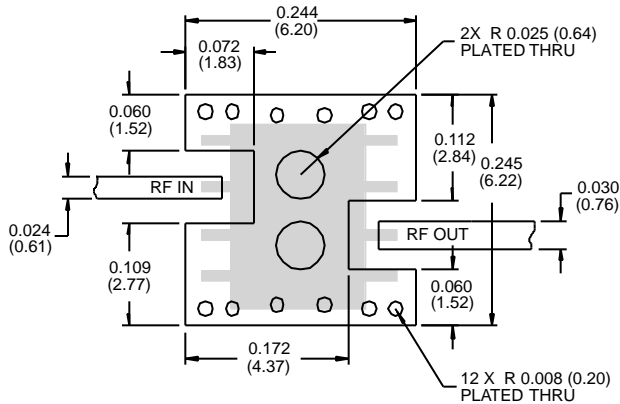
1. Operation of this device outside these limits may cause permanent damage.
2. Typical thermal resistance (θ_{jc}) = +165°C/W

Functional Diagram



Recommended PCB Configuration

Dimensions in inches (mm)

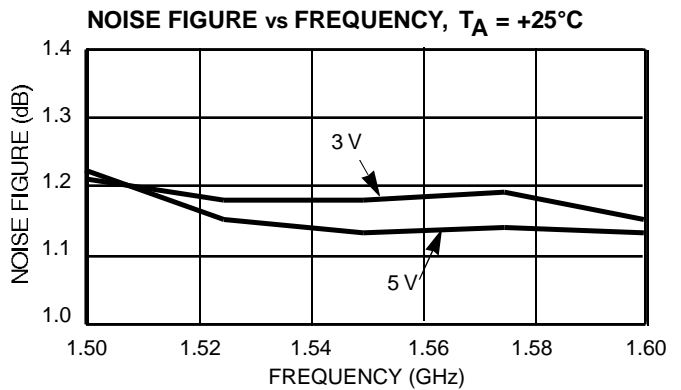
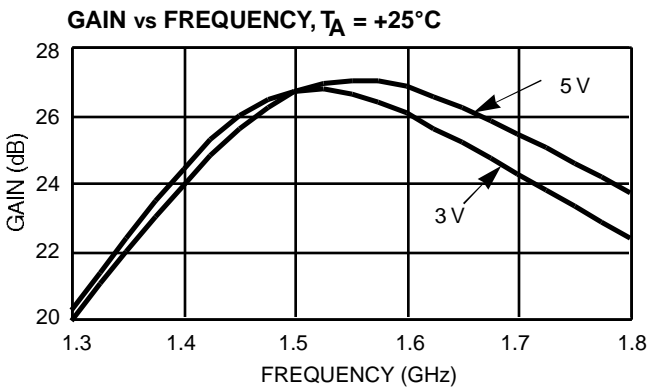


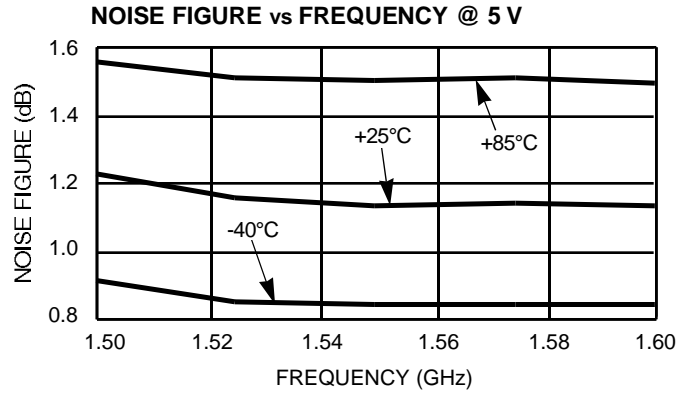
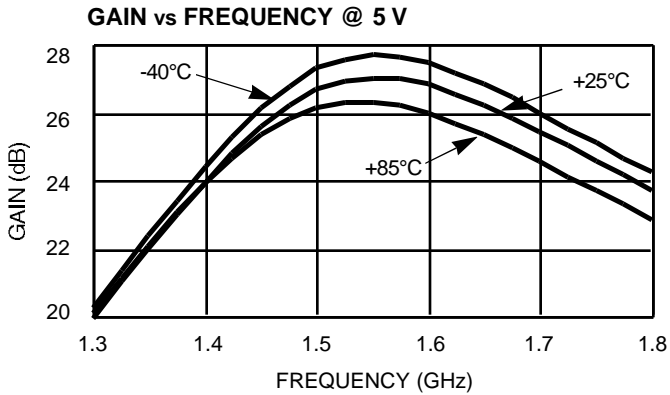
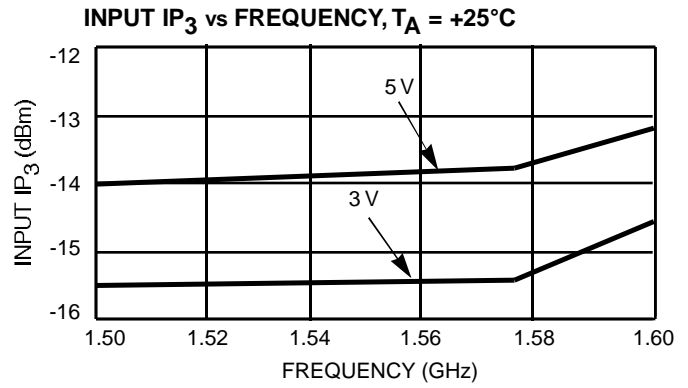
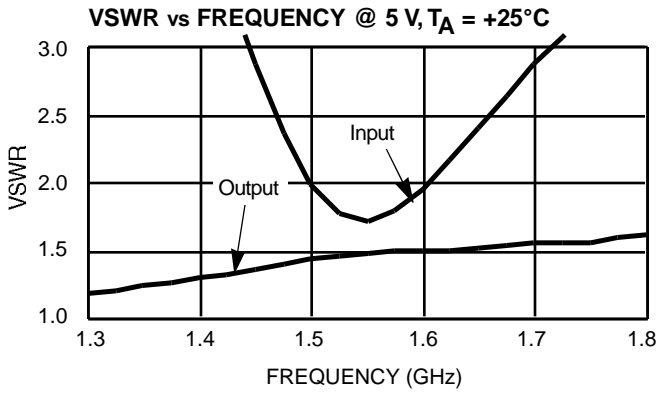
FR-4 circuit board, thickness = 0.016 inches (0.41)

| | 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_{DD} 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."