

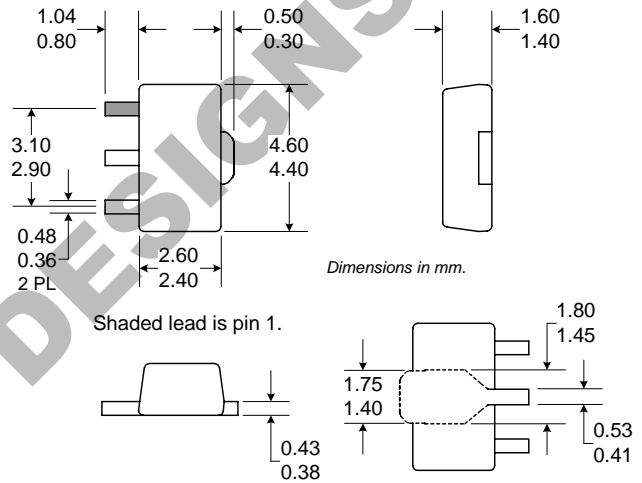
**CASCADABLE BROADBAND  
GaAs MMIC AMPLIFIER DC TO 3GHz**

**Typical Applications**

- Cellular Basestation Amplifiers and Transceivers
- Gain Stage or Driver Amplifiers for Linear and Saturated Amplifiers
- Narrow and Broadband Commercial and Military Radio Designs

**Product Description**

The RF3817 is a high-performance InGaP/GaAs general purpose RF and microwave gain block amplifier. This 50Ω amplifier is based on a reliable HBT MMIC design, providing unsurpassed performance for many small-signal applications. Designed with an external bias resistor, the RF3817 provides high output power and high gain over broad frequency range. This low-cost amplifier is packaged in a thermally efficient, industry standard, SOT89 package.



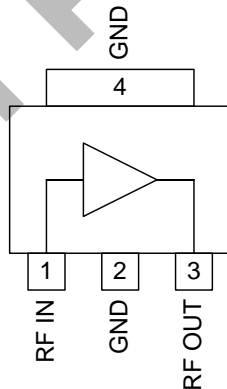
**Optimum Technology Matching® Applied**

- |   |                                   |                                       |
|---|-----------------------------------|---------------------------------------|
| <input type="checkbox"/> Si BJT               | <input type="checkbox"/> GaAs HBT | <input type="checkbox"/> GaAs MESFET  |
| <input type="checkbox"/> Si Bi-CMOS           | <input type="checkbox"/> SiGe HBT | <input type="checkbox"/> Si CMOS      |
| <input checked="" type="checkbox"/> InGaP/HBT | <input type="checkbox"/> GaN HEMT | <input type="checkbox"/> SiGe Bi-CMOS |

**Package Style: SOT89**

**Features**

- Reliable, Low-Cost HBT Design
- 19.1 dB Gain, +19.0dBm P1dB @ 1.0GHz
- High P1dB of +18.8dBm @ 3.0GHz
- Single 6V Power Supply Operation
- 50Ω I/O Matched
- Thermally-Efficient Package



**Functional Block Diagram**

**Ordering Information**

RF3817	Cascadable Broadband GaAs MMIC Amplifier DC to 3GHz (Bulk: 25 piece increment)
RF3817SB	5-piece Sample Bag
RF3817SR	100-piece Reel
RF3817TR7	7" Reel (750 pieces)
RF3817TR13	13" Reel (2,500 pieces)
RF3817PCBA-410	Evaluation Board

RF Micro Devices, Inc.  
7628 Thorndike Road  
Greensboro, NC 27409, USA

Tel (336) 664 1233  
Fax (336) 664 0454  
<http://www.rfmd.com>

**Please contact  
RF Micro Devices  
Applications Engineering  
at (336) 678-5570  
for more information.**

**NOT FOR NEW DESIGNS**