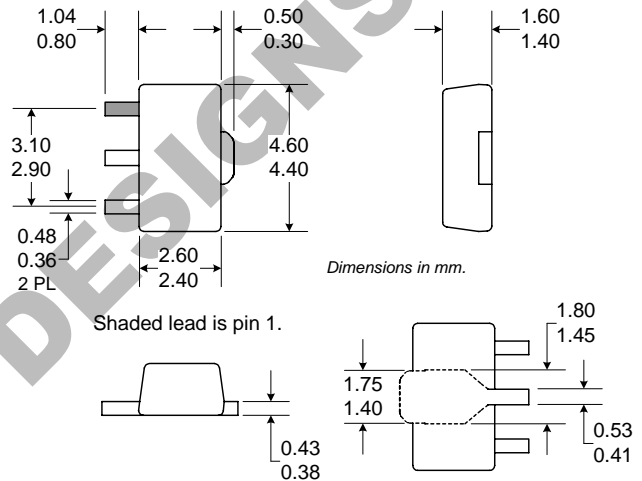


Typical Applications

- 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 RF3819 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 RF3819 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.



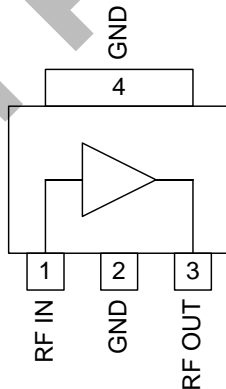
Optimum Technology Matching® Applied

- | | | |
|---|-----------------------------------|---------------------------------------|
| <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
- 12.1 dB Gain, +17.3dBm P1dB @ 1.0GHz
- High P1dB of +14.6dBm @ 6.0GHz
- Single 6V Power Supply Operation
- 50Ω I/O Matched
- Thermally-Efficient Package



Functional Block Diagram

Ordering Information

RF3819	Cascadable Broadband GaAs MMIC Amplifier DC to 6GHz (Bulk: 25 piece increment)
RF3819SB	5-piece Sample Bag
RF3819SR	100-piece Reel
RF3819TR7	7" Reel (750 pieces)
RF3819TR13	13" Reel (2,500 pieces)
RF3819PCBA-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