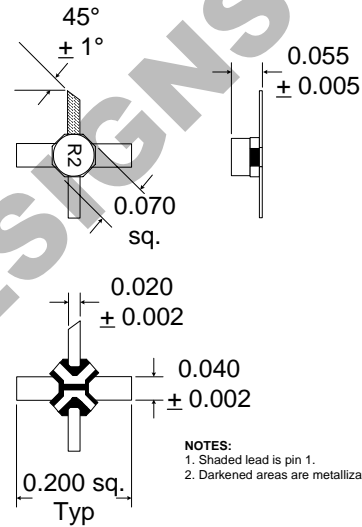


Typical Applications

- 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 RF3818 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 RF3818 provides high output power and high gain over broad frequency range. This low-cost amplifier is packaged in a thermally efficient, industry standard, ceramic Micro-X package providing excellent Θ_{JC} performance.



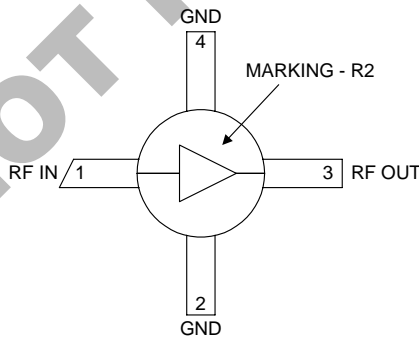
Optimum Technology Matching® Applied

- | | | |
|---|-----------------------------------|---------------------------------------|
| <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: Micro-X, 4-Pin, Ceramic

Features

- Reliable, Low-Cost HBT Design
- 19.0dB Gain, +18.2dBm P1dB @ 1.0GHz
- High P1dB of +17.9dBm @ 3.0GHz
- Single 6V Power Supply Operation
- 50Ω I/O Matched
- Thermally-Efficient Package



Functional Block Diagram

Ordering Information

RF3818	Cascadable Broadband GaAs MMIC Amplifier DC to 3GHz (Bulk: 25 piece increment)
RF3818SB	5-piece Sample Bag
RF3818SR	100-piece Reel
RF3818TR7	7" Reel (1,000 pieces)
RF3818PCBA-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