



Proposed

RF3802

GaAs HBT PRE-DRIVER AMPLIFIER

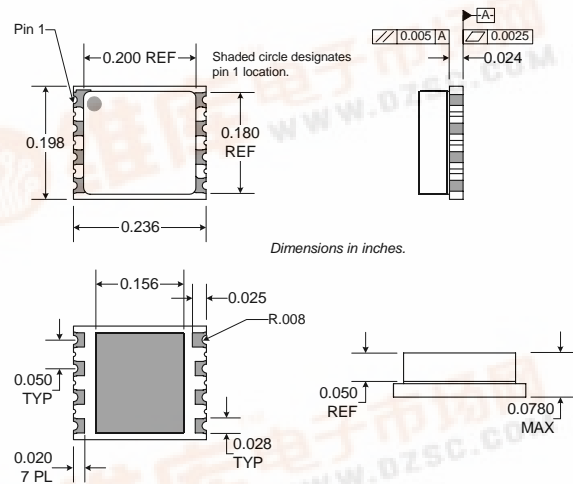
Typical Applications

- GaAs HBT Pre-Driver for Basestation Amplifiers
- Class AB Operation for GSM/EDGE/CDMA Transmitter Applications
- Power Amplifier Stage for Commercial Wireless Infrastructure

Product Description

The RF3802 is specifically designed for wireless infrastructure applications. Using a highly reliable GaAs HBT fabrication process, this high-performance dual-stage amplifier achieves high output power over a broad frequency range. The RF3802 amplifier also provides excellent efficiency and thermal stability through the use of a thermally-enhanced surface-mount AIN package. Ease of integration is accomplished through the incorporation of an optimized evaluation board design provided to achieve proper 50Ω operation. Various evaluation board bias configurations are available to address a broad range of wireless infrastructure applications:

- AMPS/GSM850/EDGE850
- GSM900/EDGE900
- IS-95/CDMA2000/AMPS



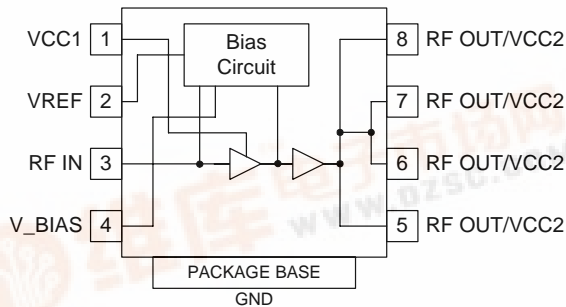
Optimum Technology Matching® Applied

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

Package Style: AIN

Features

- 5W Output Power
- High Linearity
- 35% Power-Added Efficiency
- AIN Packaging
- Broadband Platform Design Approach



Ordering Information

- | | |
|----------------|---|
| RF3802 | GaAs HBT Pre-Driver Amplifier |
| RF3802PCBA-410 | Fully Assembled Evaluation Board - GSM850 |
| RF3802PCBA-411 | Fully Assembled Evaluation Board - GSM900 |

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Functional Block Diagram

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