

Proposed

RF3805

GaAs HBT PRE-DRIVER AMPLIFIER

Typical Applications

- GaAs HBT Pre-Driver for Basestation Amplifiers
 Class AB Operation for GSM/EDGE/
- Power Amplifier Stage for Commercial Wireless Infrastructure
- CDMA2000/W-CDMA Transmitter Applications

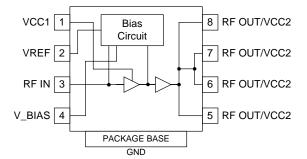
Product Description

The RF3805 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 RF3805 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 configurations are available to address a broad range of wireless infrastructure applications:

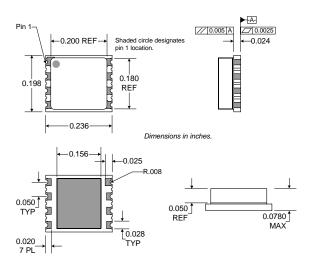
- GSM/EDGE1800
- CDMA2000
- W-CDMA

Optimum Technology Matching® Applied

▼ GaAs HBT ☐ Si BJT GaAs MESFET ☐ Si Bi-CMOS SiGe HBT ☐ Si CMOS InGaP/HBT GaN HEMT SiGe Bi-CMOS



Functional Block Diagram



Package Style: AIN

Features

- 5W Output Power
- High Linearity
- 40% Power-Added Efficiency
- Thermally-Enhanced AIN Packaging
- Broadband Platform Design Approach

Ordering Information

GaAs HBT Pre-Driver Amplifier RF3805 RF3805PCBA-411 Fully Assembled Evaluation Board - 1625 to 1665 RF3805PCBA-412 Fully Assembled Evaluation Board - 1710 to 1785 RF3805PCBA-413 Fully Assembled Evaluation Board - DCS1800 RF3805PCBA-414 Fully Assembled Evaluation Board - PCS1900 RF3805PCBA-415 Fully Assembled Evaluation Board - UMTS2100 RF Micro Devices, Inc. Tel (336) 664 1233 7628 Thorndike Road Fax (336) 664 0454

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