

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

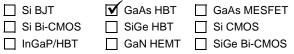
CDMA2000/W-CDMA Transmitter Applications

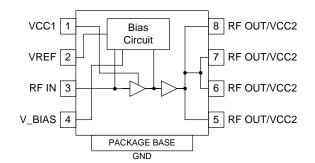
Product Description

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 50 Ω operation. Various evaluation board configurations are available to address a broad range of wireless infrastructure applications:

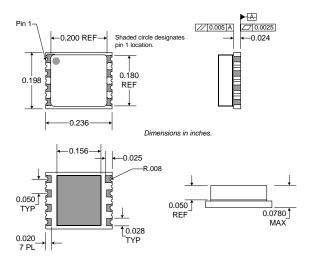
- GSM/EDGE1800 ٠
- CDMA2000
- W-CDMA

Optimum Technology Matching® Applied





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
Fully Assembled Evaluation Board - 1625 to 1665
Fully Assembled Evaluation Board - 1710 to 1785
Fully Assembled Evaluation Board - DCS1800
Fully Assembled Evaluation Board - PCS1900
Fully Assembled Evaluation Board - UMTS2100
c. Tel (336) 664 1233
Fax (336) 664 0454
09, USA http://www.rfmd.com

RF3805

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