RFMD
rfmd.com

RF7303

3V LTE/UMTS/CDMA BAND 3 LINEAR PA MODULE

Package Style: Module, 10-Pin, 3mm x 3mm x 0.8mm

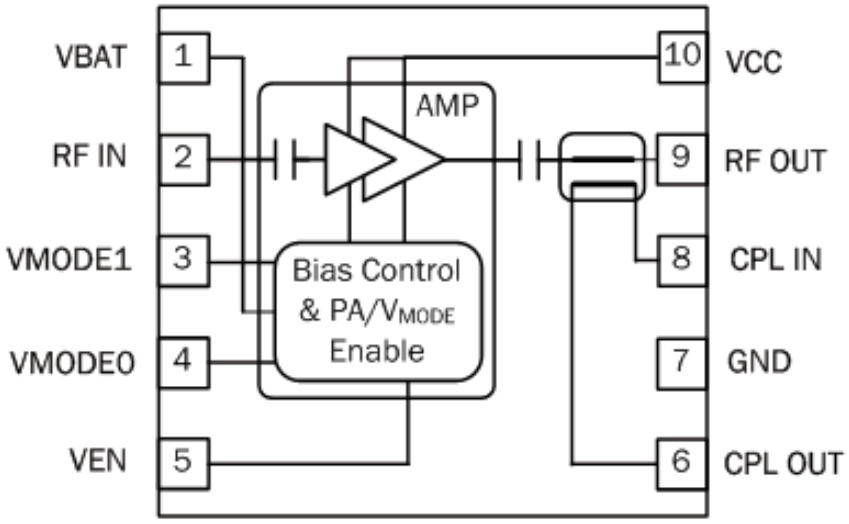


Features

- Multi-Mode LTE/UMTS/CDMA
- LTE/UMTS Bands 3, 4, 9, and 10
- CDMA Band Class 15
- LTE PA Efficiency 38%, +28dBm
- Best-in-Class Current Consumption
- Optimized use with DC-DC converter Operation
- Three Power States with Digital Control Interface
- Integrated Power Coupler
- Integrated Blocking and Decoupling Capacitors

Applications

- LTE/UMTS/CDMA Wireless Handsets and Datacards



Functional Block Diagram

Product Description

The RF7303 is a high-power, high-efficiency linear power amplifier designed for use as final amplification stage in a 3V, 50Ω LTE/UMTS/CDMA mobile cellular equipment. This PA is developed for the E-UTRAN/LTE Bands within the 1710MHz to 1785MHz and along with CDMA Band 15 (BC15) that operates within the 1710MHz to 1755MHz frequency band. The RF7303 has two digital control pins to select one of three power bias states to optimize performance and current drain at lower power levels. The part also has an integrated directional coupler which eliminates the need for an external discrete coupler at the output. The RF7303 meets spectral linearity requirements for CDMA, HSDPA, HSUPA, and fully capable of LTE data transmission. The RF7303 part assembled in a 10-pin, 3mm x 3mm module.

Ordering Information

RF7303	3V WCDMA/CDMA B3 Linear PA Module
RF7303PCBA-410	Fully Assembled Evaluation Board

Optimum Technology Matching® Applied

☐ GaAs HBT	☐ SiGe BiCMOS	☐ GaAs pHEMT	☐ GaN HEMT
☐ GaAs MESFET	☐ Si BiCMOS	☐ Si CMOS	☐ RF MEMS
☑ InGaP HBT	☐ SiGe HBT	☐ Si BJT	☐ LDMOS

RF MICRO DEVICES®, RFMD®, Optimum Technology Matching®, Enabling Wireless Connectivity™, PowerStar®, POLARIS™ TOTAL RADIO™ and UltimateBlue™ are trademarks of RFMD, LLC. BLUETOOTH is a trademark owned by Bluetooth SIG, Inc., U.S.A. and licensed for use by RFMD. All other trade names, trademarks and registered trademarks are the property of their respective owners. ©2006, RF Micro Devices, Inc.

7628 Thorndike Road, Greensboro, NC 27409-9421 · For sales or technical support, contact RFMD at (+1) 336-678-5570 or sales-support@rfmd.com.

RFMD
rfmd.com

Please contact
RFMD Technical Support
at (336) 678-5570
for more information.

7628 Thorndike Road, Greensboro, NC 27409-9421 · For sales or technical support, contact RFMD at (+1) 336-678-5570 or sales-support@rfmd.com.