## RF Micro Devices® 3V 900 MHz Linear Amplifier

RF6100-2



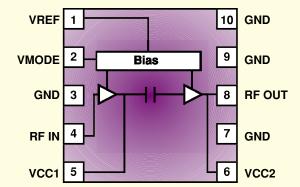
The RF6100-2 is a high-power, high-efficiency linear amplifier module specifically designed for 3V handheld systems. The device is manufactured on an advanced third-generation GaAs HBT process and has been designed for use as the final RF amplifier in 3V IS-95/CDMA 2000 1x/AMPS handheld digital cellular equipment, spread-spectrum systems and other applications in the 824 MHz to 849 MHz band. The RF6100-2 has a digital control line for low power applications in order to lower quiescent current. The device is self-contained with  $50\Omega$  input and output that is matched to obtain optimum power, efficiency and linearity. The module is an ultra-small 4x4mm land grid array with backside ground. The RF6100-2 is footprint compatible with industry standard 4x4mm CDMA modules and requires only one decoupling capacitor.

## **Features**

- → Advanced third-generation GaAs HBT process
- → 4x4mm 50Ω internally matched package
- → 28 dBm linear output power
- → 40% power added efficiency
- → 54% AMPS power added efficiency
- → -50 dBc adjacent channel power rejection
- → 3V regulated voltage
- → 55mA quiescent current (up to 28 dBm)
- → 29 dB linear gain

## **Typical Applications**

- → 3V CDMA/AMPS cellular handsets
- → 3V CDMA 2000 1x cellular handsets
- → Spread spectrum systems



RF6100-2
Application Schematic



For sales or technical support, contact RFMD at 336-678-5570 or callcenter@rfmd.com.

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## **RF6100-2: Typical Performance Charts**

