

Product Preview Dual-Band GSM GPRS 3.6 V Integrated Power Amplifier

The MRFIC1869 is a dual-band single supply RF Power Amplifier for GSM900/DCS1800 hand held radios. The device is packaged in a MLF-32 with exposed backside pad allowing excellent electrical and thermal performance through a solderable contact.

- Single Supply Enhancement Mode pHEMT Technology
- Internal Input Matching
- High Power and Efficiency
- Typical 3.6 V Characteristics:
 - P_{out} = 35.8 dBm, PAE = 55% for GSM P_{out} = 34 dBm, PAE = 45% for DCS
- Tri–Band Capability¹



MRFIC1869

PLASTIC PACKAGE CASE TBD (MLF-32, 5x5)

ORDERING INFORMATION

Device	Operating Temperature Range	Package
MRFIC1869	T _C = –35 to 100°C	MLF-32

Simplified Block Diagram			
VD1G	VD2G	VD3G	
BS Vapc VD1D	V _{D2D}	VDBG Vreg VDBD VD3D	

1. This product can be used in a tri-band application with a specific DCS1800/PCS1900 matching network. This matching network results in a degradation of Pout, PAE and input power as noted in the Electrical Characteristics table.

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