

InGaP HBT 2.4 - 2.5 GHz Power Amplifier

PRODUCTION DATA SHEET

DESCRIPTION

The LX5518 is a high gain and high amplifier optimized 802.11b/g/n applications in the 2.4-2.5 the PA to help reduce BOM cost and GHz frequency range. The PA is PCB space for implementation of implemented as a three-stage monolithic power control in a typical wireless microwave integrated circuit (MMIC) system. input active bias, on-chip matching, and output pre-matching.

The device is manufactured with an package InGaP/GaAs Heterojunction Bipolar compact footprint, low profile, and Transistor (HBT) IC (MOCVD). It operates with a single LX5518 an ideal solution positive voltage supply of 3-5V, and 802.11b/g/n applications. provides a power gain of 30dB and an output power of +26dBm at 5V for 3% EVM in the 2.4-2.5GHz.

LX5518 also features an on-chip for power detector at the output port of

The LX5518 is available in a 16pin 3mm x 3mm quad flat no lead (OFN $3 \times 3 - 16L$). process excellent thermal capability make the

KEY FEATURES

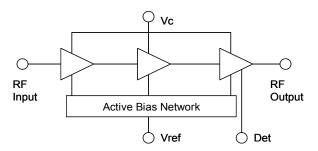
- Advanced InGaP HBT
- 2.4-2.5GHz Operation
- Single-Polarity 3-5V Supply
- Power Gain ~ 30 dB
- 26dBm @3%EVM,802.11g/5V
- 24dBm @3.5%EVM,80211g/3.3V
- 28dBm @CCK,802.11b/5V
- 27dBm @CCK,802.11b/3.3V
- 24.5% Efficiency @28dBm/5V
- Complete On-Chip Input Match
- Simple Output Match for Optimal
- Temperature-Compensated On-Chip Output Power Detector with Wide Dynamic Range
- Small Footprint: 3x3mm²
- Low Profile: 0.9mm

IMPORTANT: For the most current data, consult MICROSEMI's website: http://www.microsemi.com

APPLICATIONS

802.11b/a/n

BLOCK DIAGRAM



PACKAGE ORDER INFO 3X3MM MLP PACKAGE





Plastic OFN 3×3 LO 16 pin

RoHS Compliant / Pb-free

LX5518LQ

Note: Available in Tape & Reel. Append the letters "TR" to the part number. (i.e. LX5518LQ-TR)



INFORMATION

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