

InGaP HBT 2.4 – 2.5 GHz Power Amplifier

PRODUCTION DATA SHEET

DESCRIPTION

The LX5518 is a high gain and high amplifier optimized power 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, with 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 3×3-16L). The process excellent thermal capability make the for

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 EVM
- Temperature-Compensated On-Chip Output Power Detector with Wide Dynamic Range
- Small Footprint: 3x3mm²
- Low Profile: 0.9mm

APPLICATIONS

802.11b/g/n



3X3MM MLP PACKAGE



PACKAGE ORDER INFO

Plastic QFN 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)

www.Microsemi.com

LX5518

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

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INFORMATION

Thank you for your interest in Microsemi[®] Analog Mixed Signal products.

The full data sheet for this device contains proprietary information.

To obtain a copy, please contact your local Microsemi sales representative. The name of your local representative can be obtained at the following link http://www.microsemi.com/contact/contactfind.asp

or

Contact us directly by sending an email to:

IPGdatasheets@microsemi.com

Be sure to specify the data sheet you are requesting and include your company name and contact information and or vcard.

We look forward to hearing from you.