

InGaP HBT 2.3 - 2.5 GHz Power Amplifier

PRODUCTION DATA SHEET

DESCRIPTION

The LX5514 is a power amplifier as a two-stage monolithic microwave current. integrated circuit (MMIC) with active bias and output pre-matching.

(HBT) Transistor IC

For 20dBm OFDM output power optimized for WLAN applications in (64QAM, 54Mbps), the PA provides a the 2.3 - 2.5GHz frequency range. low EVM (Error-Vector Magnitude) of The power amplifier is implemented 3.0%, and consumes 150mA total DC

The LX5514 is available in a standard 12-pin 2mm x 2mm micro-The device is manufactured with an lead package (MLP12L). The compact InGaP/GaAs Heterojunction Bipolar footprint, low profile, and thermal process capability of the MLP package make the (MOCVD). Power gain of 28dB is LX5514 an ideal solution for mediumobtained with a low quiescent current gain power amplifier requirements for IEEE 802.11b/g applications.

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

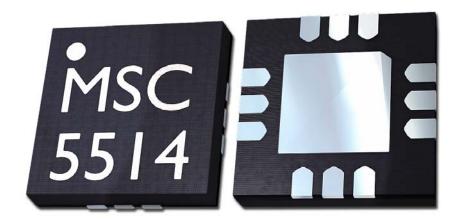
KEY FEATURES

- Advanced InGaP HBT
- 2.3 2.5GHz Operation
- Single-Polarity 3.3V Supply
- Quiescent Current 80mA
- Power Gain 28dB
- Total Current 150mA for Pout=20dBm OFDM
- EVM ~3 % 54Mbps / 64QAM
- Small Footprint: 2 x 2mm
- Low Profile: 0.46mm

APPLICATIONS

IEEE 802.11b/g

PRODUCT HIGHLIGHT



PACKAGE ORDER INFO

Plastic MLPO 12 pin

RoHS Compliant / Pb-free

LX5514LL

Note: Available in Tape & Reel. Append the letters "TR" to the part number. (i.e. LX5514LL-TR)



INFORMATION

Thank you for your interest in Microsemi® IPG 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.