

# InGaP HBT 2.3 – 2.5 GHz Power Amplifier

**PRODUCTION DATA SHEET** 

### DESCRIPTION

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

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 (HBT) IC Transistor (MOCVD). Power gain of 28dB is LX5514 an ideal solution for mediumobtained with a low quiescent current gain power amplifier requirements for of 80mA.

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

#### **KEY FEATURES**

LX5514

- 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

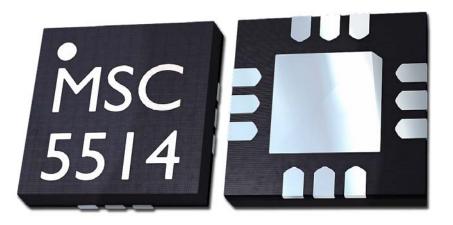
- IEEE 802.11b/g
- **PRODUCT HIGHLIGHT**

For 20dBm OFDM output power

The LX5514 is available in a

standard 12-pin 2mm x 2mm micro-

IEEE 802.11b/g applications.





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



## INFORMATION

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The full data sheet for this device contains proprietary information.

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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.