LX5511

InGaP HBT 2.3 – 2.5 GHz Power Amplifier

PRODUCTION DATA SHEET

DESCRIPTION

The Microsemi LX5511 is a power amplifier that is optimized for WLAN applications in the 2.3GHz – 2.5GHz frequency range. The LX5511 Power Amplifier is implemented as a two-stage monolithic microwave integrated circuit (MMIC) with active bias and output pre-matching.

The device is manufactured with an InGaP/GaAs Heterojunction Bipolar Transistor (HBT) IC process (MOCVD). With a single low voltage supply of 3.3V 26dB power gain between 2.3-2.5GHz, at a low quiescent current of 90mA.

For 20dBm OFDM output power (64QAM, 54Mbps), the PA provides a low EVM (Error-Vector Magnitude) of less than 3.0%, and consumes 170mA total DC current..

The LX5511 is available in a 16-pin 3mmx3mm micro-lead quad package (MLPQ). The compact footprint, low profile, and thermal capability of the MLPQ package makes the LX5511 an ideal solution for medium-gain power amplifier requirements for IEEE 802.11b/g applications

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

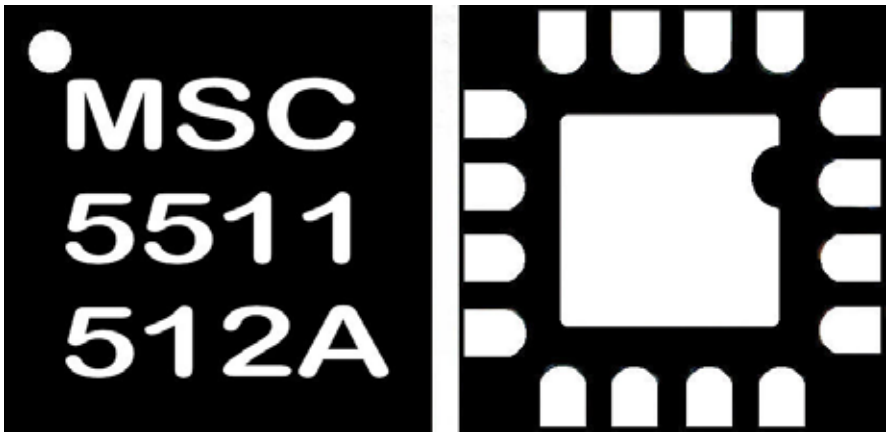
KEY FEATURES

- Advanced InGaP HBT
- 2.3-2.5GHz Operation
- Single-Polarity 3.3V Supply
- Quiescent Current 90mA
- Power Gain 26 dB
- Total Current 150mA for Pout=18 dBm OFDM
- EVM<3 %, 2.4% Typical 54Mbps/64QAM
- Small Footprint: 3x3mm2
- Height 0.9mm

APPLICATIONS

- IEEE 802.11b/g

PRODUCT HIGHLIGHT



PACKAGE ORDER INFO

LQ`	**Plastic MLPQ** **16-Pin** RoHS Compliant / Pb-free
LX5511LQ	

Note: Available in Tape & Reel. Append the letters "TR" to the part number. (i.e. LX5511LQ-TR)

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Microsemi

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.

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