

**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

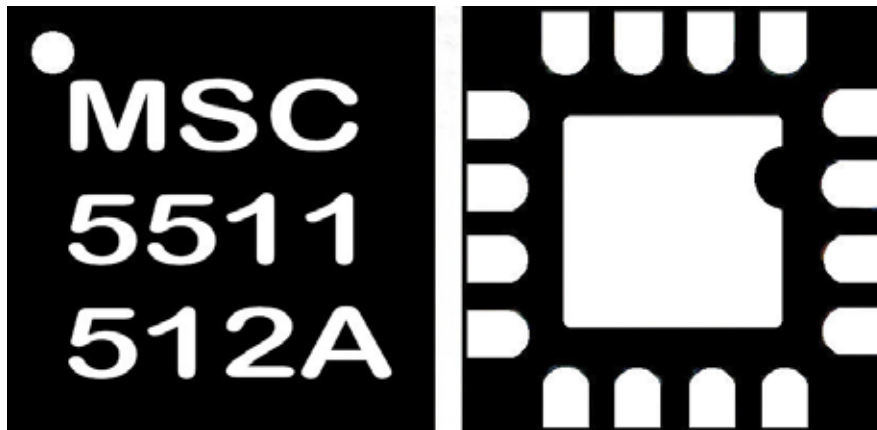
**IMPORTANT:** For the most current data, consult MICROSEMI's website: <http://www.microsemi.com>

**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: 3x3mm<sup>2</sup>
- Height 0.9mm

**APPLICATIONS**

- IEEE 802.11b/g

**PRODUCT HIGHLIGHT**

**PACKAGE ORDER INFO**

<b>LQ</b>	Plastic MLPQ
	16-Pin
RoHS Compliant / Pb-free	
<b>LX5511LQ</b>	

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



**Microsemi**<sup>®</sup>

## INFORMATION

*Thank you for your interest in Microsemi<sup>®</sup> 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](mailto: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.*