



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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**DESCRIPTION**

The LX5514 is a power amplifier optimized for WLAN applications in the 2.3 – 2.5GHz frequency range. The 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). Power gain of 28dB is obtained with a low quiescent current of 80mA.

For 20dBm OFDM output power (64QAM, 54Mbps), the PA provides a low EVM (Error-Vector Magnitude) of 3.0%, and consumes 150mA total DC current.

The LX5514 is available in a standard 12-pin 2mm x 2mm micro-lead package (MLP12L). The compact footprint, low profile, and thermal capability of the MLP package make the LX5514 an ideal solution for medium-gain power amplifier requirements for IEEE 802.11b/g applications.

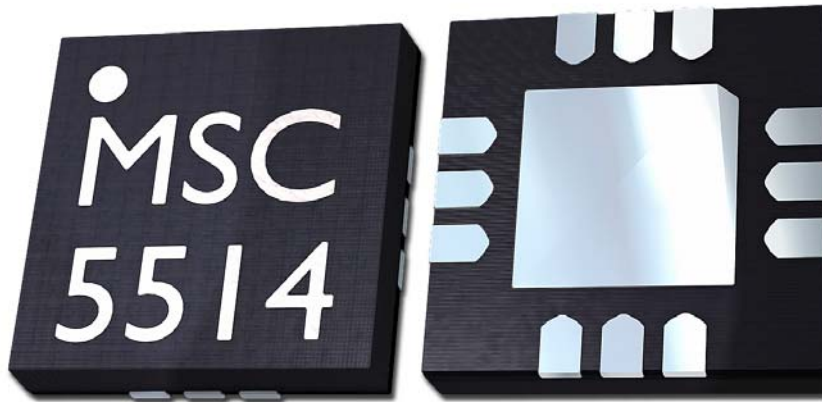
**IMPORTANT:** For the most current data, consult MICROSEMI's website: <http://www.microsemi.com>

**KEY FEATURES**

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

**APPLICATIONS**

- IEEE 802.11b/g

**PRODUCT HIGHLIGHT**

**PACKAGE ORDER INFO**

<b>LL</b>	Plastic MLPQ
	12 pin
RoHS Compliant / Pb-free	
<b>LX5514LL</b>	

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