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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.

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DESCRIPTION

The LX5535 is a power amplifier optimized for WLAN applications in the 2.4-2.5 GHz frequency range. The PA is implemented as a three-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 single low voltage supply of 5V, it provides 32 dB power gain between 2.4-2.5GHz, at a low quiescent current of 120mA.

The output power for EVM(Error Vector Magnitude) of 3.5% is 25dBm (64QAM/54Mbps), where the PA consumes 260mA total DC current.

The LX5535 is available in a 16-pin 3mm x 3mm micro-lead package (MLPQ-16L). The compact footprint, low profile, and thermal capability of the MLP package makes the LX5535 an ideal solution for high-gain power amplifier requirements for IEEE 802.11b/g and WiMAX applications.

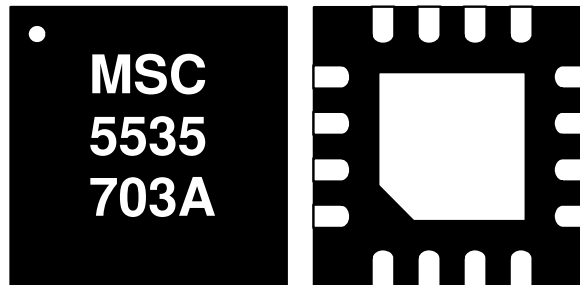
IMPORTANT: For the most current data, consult MICROSEMI's website: <http://www.microsemi.com>

KEY FEATURES

- Advanced InGaP HBT
- 2.4-2.5GHz Operation
- Single-Polarity 3-5V Supply
- Quiescent Current 120mA
- Power Gain 32 dB
- Power for EVM~3.5 %
- 54Mbps/64QAM : 25dBm
- Total Current 260mA for Pout=25dBm, 802.11g
- 802.11b mask-compliant power : 28dBm
- Total Current 370mA for Pout=+28dBm, 802.11b
- Small Footprint: 3x3mm²
- Low Profile: 0.9mm

APPLICATIONS

- IEEE 802.11b/g
- IEEE 802.16 WiMAX

PRODUCT HIGHLIGHT

PACKAGE ORDER INFO

	Plastic MLPQ
LQ	3x3 16 pin
	RoHS Compliant / Pb-free
LX5535LQ	

Note: Available in Tape & Reel.
Append the letter "TR" to the part number.
(i.e. LX5535LQ-TR)



Microsemi[®]

INFORMATION

Thank you for your interest in Microsemi[®] Analog Mixed Signal 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.