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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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2.4 GHz High-Power, High-Gain Power Amplifier Module SST12LP08A

Product Brief

The SST12LP08A is a versatile power amplifier based on the highly-reliable InGaP/GaAs HBT technology. Easily configured for linear high-power applications with excellent power-added efficiency while operating over the 2.4- 2.5 GHz frequency band, it typically provides 29 dB gain with 34% power-added efficiency. while meeting 802.11g spectrum mask at 24 dBm. The SST12LP08A also features easy board-level usage along with high-speed power-up/down control through a single combined reference voltage pin and is offered in an 8-contact XSON package.

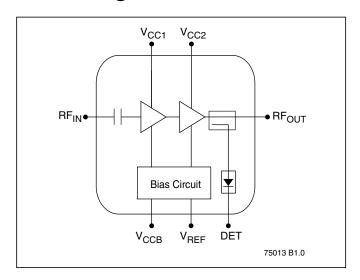
Features

- High Gain:
 - Typically 29 dB gain across 2.4~2.5 GHz over temperature -40°C to +85°C
- High linear output power (at 3.3V):
 - >28 dBm P1dB
 - ~2.5% added EVM up to 20 dBm for 54 Mbps 802.11g signal
 - Meets 802.11g OFDM ACPR requirement up to 24 dBm
 Meets 802.11b ACPR requirement up to 23.5 dBm
- · High power-added efficiency/Low operating current for both 802.11g/b applications
 - $\sim 34\%$ @ $P_{OUT} = 24$ dBm for 802.11g $\sim 31\%$ @ $P_{OUT} = 23.5$ dBm for 802.11b
- Low Shut-down Current (~2 μA)
- High temperature stability
 - -~1 dB power variation between -40°C to +85°C
 - ~3 dB gain variation between -40°C to +85°C
- Temperature and load insensitive on-chip power detector
 - 20 dB dynamic range
- Simple input/output matching
- Packages available
 - 8-contact XSON 2mm x 2mm x 0.45mm
- All devices are RoHS compliant

Applications

- WLAN (IEEE 802.11b/q/n)
- Home RF
- Cordless phones
- 2.4 GHz ISM wireless equipment

Block Diagram



Product Ordering

Valid combinations for SST12LP08A

SST12LP08A-QX8E

SST12LP08A Evaluation Kits

SST12LP08A-QX8E-K

Note: Valid combinations are those products in mass production or will be in mass production. Consult your SST sales representative to confirm availability of valid combinations and to determine availability of new combinations.



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Product Brief

Contact Information

Thank you for your interest in Microchip RF products. The data sheet for this device contains proprietary information. To obtain a copy of the data sheet, contact your local Microchip sales representative or distributor at the link below.

Global Sales and Distribution

Table 1: Revision History

ſ	Revision		Description	Date
	Α	•	Initial release of Product Brief	Jul 2011

ISBN:978-1-61341-445-3

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Specifications are subject to change without notice. Refer to www.microchip.com for the most recent documentation. For the most current package drawings, please see the Packaging Specification located at http://www.microchip.com/packaging.

Memory sizes denote raw storage capacity; actual usable capacity may be less.

SST makes no warranty for the use of its products other than those expressly contained in the Standard Terms and Conditions of Sale.

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