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Microchip Introduces Compact, High-Efficiency RF Power Amplifier for 5 GHz Wi-Fi® Applications

CHANDLER, Ariz.--(BUSINESS WIRE)-- Microchip Technology Inc. (NASDAQ:MCHP), a leading provider of microcontroller, analog and Flash-IP solutions, today announced the new **SST11CP15 RF power amplifier** for 5 GHz IEE 802.11a/n WLAN embedded applications. The device operates on the 4.9 to 5.9 GHz band, and offers a wide operating voltage of 3.3V to 5V. The **SST11CP15** features a high linear output power of 18 dBm at 2.5 percent EVM, using 802.11a OFDM 54 Mbps at 3.3V, and 20 dBm at 5.0V, and offers an output power of 23 dBm at mask compliance of 6 Mbps, at 3.3V. The device is offered in a compact, 2 mm x 2 mm x .55 mm, 12-pin QFN package. It is ideal for 5 GHz WLAN applications where small size and high-efficiency operation are required, such as in **wireless multimedia** and **MIMO applications** for broadband gateway and consumer-electronics equipment.

The SST11CP15 meets the needs of designers who must reduce DC current consumption in their portable multimedia and MIMO applications. With its high power-added efficiency, the device reduces battery current drain and extends battery operation. Its 4.9 to 5.9 GHz linear operation enables 802.11a/n operation and increases data rates, while its small size is ideal for space-constrained applications.

“With the addition of the SST11CP15 to **Microchip’s Wi-Fi® power amp portfolio**, Microchip now offers reliable, high-efficiency operation across the 5 GHz band,” said Daniel Chow, vice president of Microchip’s Radio Frequency Division. “This meets customer demand for a broad portfolio of reliable RF power amps, with high power-added efficiencies.”

Development Support

Developers can begin designing today with the **SST11CP15 Evaluation Board** (part # **11CP15-QUBE-K**), which is available now, via any Microchip sales representative.

Packaging, Pricing and Availability

The **SST11CP15 RF power amplifier** is available in a 2 mm x 2 mm x .55 mm, 12-pin QFN package for $0.66 each, in 10,000-unit quantities. **Samples** are available today, at **http://www.microchip.com/get/TNQ6**. Volume-production quantities can be ordered today at **http://www.microchip.com/get/9JD6**. For additional information, contact any Microchip sales representative or authorized worldwide distributor, or visit Microchip’s website at **http://www.microchip.com/get/02DL**. To purchase products mentioned in this press release, go to **microchipDIRECT** or contact one of Microchip’s authorized distribution partners.

About Microchip Technology

Microchip Technology Inc. (NASDAQ: MCHP) is a leading provider of microcontroller, analog and Flash-IP solutions, providing low-risk product development, lower total system cost and faster time to market for thousands of diverse customer applications worldwide. Headquartered in Chandler, Arizona, Microchip offers outstanding technical support along with dependable delivery and quality. For more information, visit the Microchip website at **http://www.microchip.com/get/QX7E.**

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Tags / Keywords: RF power amplifier, **power amp**, **high efficiency**, **wide operating voltage**, **high linear power**, **high power-added efficiency**, **PAE**, **small size**, **5 GHz**, **WLAN**, **Wi-Fi**, **multimedia**, **802.11a**, **802.11n**

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