

## New Product Announcement

### Mouser Now Stocking the Qorvo QPA2308 60W GaN Power Amplifier for Commercial and Military Applications

**July 22, 2019** – [Mouser Electronics](http://www.mouser.com), Inc., the authorized global distributor with the newest semiconductors and electronic components, is now stocking the [QPA2308](#) MMIC power amplifier from [Qorvo](#). Engineered for commercial and military applications, the QPA2308 provides high-power density and power-added efficiency for 5 to 6 GHz [radio frequency](#) (RF)-based designs. Fabricated on Qorvo's production 0.25 um gallium nitride-on-silicon carbide (GaN-on-SiC) process, this monolithic microwave integrated circuit (MIMC) power amplifier simplifies system integration and offers impressive performance in a compact 15.24 × 15.24 mm bolt-down package.

The [Qorvo QPA2308](#) power amplifier, available from Mouser Electronics, features greater than 60 W of saturated output power and over 21 dB of large-signal gain. The device's power-added efficiency (PAE) is rated at greater than 47 percent, and the RF output power where the device starts to draw positive gate current ( $P_{SAT}$ ) is measured at 48 dBm. Input return loss for the amplifier is specified at 14 to 23 dB, while the output return loss is 13 dB. To simplify system integration, the QPA2308 also supplies two RF ports that are fully matched to 50 ohms, each integrated with DC blocking capacitors.

Qorvo's QPA2308 has an operating temperature of minus 40 to 85 degrees Celsius, and a power dissipation of 140 W (at 85 degrees Celsius). The RoHS compliant amplifier is ideal for RF applications such as C-Band Radars, satellite (Satcom) and space [communications](#), and electronic warfare technologies.

Mouser is also stocking the [QPA2308EVB1](#) evaluation board. Made from Rogers RO6035HTC dielectric, a high-reliability material used specifically in aerospace and defense-based projects due to its dielectric constant and low loss, the PCB on the evaluation board features .01-inch thick, 0.5-ounce copper on both sides.

To learn more about the Qorvo QPA2308 power amplifier and evaluation board, visit [www.mouser.com/qorvo-qpa2308-mmhc](http://www.mouser.com/qorvo-qpa2308-mmhc).

With its broad product line and unsurpassed customer service, Mouser strives to empower innovation among design engineers and buyers by delivering advanced technologies. Mouser stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is continually updated and offers advanced search methods to help customers quickly locate inventory. Mouser.com also houses data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

### **About Mouser Electronics**

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### **About Qorvo**

Qorvo makes a better world possible by providing innovative radio frequency (RF) solutions at the center of connectivity. The company combines product and technology leadership, systems-level expertise and global manufacturing scale to quickly solve customers' most complex technical challenges. Qorvo serves diverse high-growth segments of large global markets, including advanced wireless devices, wired and wireless networks and defense radar and communications. The company also leverages unique competitive strengths to advance 5G networks, cloud computing, the Internet of Things, and other emerging applications that expand the global framework interconnecting people, places and things.

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