



New Product Announcement

Mouser Electronics Now Stocking Qorvo's QPA3069 100W GaN S-Band Power Amplifier

January 8, 2020 – [Mouser Electronics](#), Inc., the industry's leading New Product Introduction (NPI) distributor with the widest selection of semiconductors and electronic components, is now stocking the [QPA3069](#) power amplifier from [Qorvo](#). Engineered for defense and aerospace applications, the 100 W QPA3069 provides high power density and power-added efficiency for 2.7 – 3.5 GHz radio frequency (RF) based designs. Fabricated with Qorvo's production 0.25 μ m gallium nitride-on-silicon carbide (GaN-on-SiC) process, this packaged high-power, S-band amplifier simplifies system integration and offers impressive performance in a compact 7.0 \times 7.0 \times 0.85 mm package.

The [Qorvo QPA3069](#) power amplifier, available from Mouser Electronics, features greater than 58 dBm of saturated output power and over 25 dB of large-signal gain. The device's power-added efficiency (PAE) is rated at 53 percent, and the RF output power where the device starts to draw positive gate current (PSAT) is measured at 50 dBm. The amplifier features input return loss as low as 13 dB and output return loss as low as 7 dB. To simplify system integration, the QPA3069 also supplies two RF ports that are fully matched to 50 ohms, each integrated with DC blocking capacitors.

Qorvo's QPA3069 has an operating temperature of minus 40 to 85 degrees Celsius, and a power dissipation of 117 W at the top of the temperature range. The lead-free, RoHS-compliant amplifier is ideal for S-band radar applications.

To learn more about the Qorvo QPA3069 power amplifier and the associated [evaluation board](#), visit <https://www.mouser.com/new/qorvo/qorvo-qpa3069-power-amp/>.

As an authorized distributor, Mouser Electronics is focused on the rapid introduction of new products and technologies, giving customers an edge and helping speed time to market. Over 800 semiconductor and electronic component manufacturers count on Mouser to help them introduce their products into the global marketplace. Mouser's customers can expect 100% certified, genuine products that are fully traceable from each manufacturer.

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

Mouser Electronics, a Berkshire Hathaway company, is an award-winning, authorized semiconductor and electronic component distributor focused on rapid New Product Introductions from its manufacturing partners for electronic design engineers and buyers. The global distributor's website, Mouser.com, is available in multiple languages and currencies and features more than 5 million products from over 800 manufacturers. Mouser offers 27 support locations around the world to provide best-in-class customer service and ships globally to over 630,000 customers in 223 countries/territories from its 750,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit www.mouser.com.

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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