



New Product Announcement

Mouser Electronics Now Stocking Qorvo QPA1027 60-Watt GaN S-Band Power Amplifier

October 8, 2019 – [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 [QPA1027](#) power amplifier from [Qorvo](#). Engineered for defense and aerospace applications, the QPA1027 provides high power density and power-added efficiency for 2.8 – 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 6.0 \times 6.0 \times 0.83 mm package.

The [Qorvo QPA1027](#) power amplifier, available from Mouser Electronics, features greater than 60 W of saturated output power and over 22 dB of large-signal gain. The device's power-added efficiency (PAE) is rated at greater than 55 percent, and the RF output power where the device starts to draw positive gate current (PSAT) is measured at 48 dBm. Input return loss for the amplifier is specified at 15 dB, while the output return loss is 7 dB. To simplify system integration, the QPA1027 also supplies two RF ports that are fully matched to 50 ohms, each integrated with DC blocking capacitors.

Qorvo's QPA1027 has an operating temperature of minus 40 to 85 degrees Celsius, and a power dissipation of 80 W (at 85 degrees Celsius). The lead-free, RoHS-compliant amplifier is ideal for RF applications such as S-band radar and satellite communications (satcom).

To learn more about the Qorvo QPA1027 power amplifier and the associated evaluation board, visit www.mouser.com/qorvo-qpa1027-gan-power-amplifiers.

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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