

New Product Announcement

Mouser Electronics Now Shipping Qorvo QPL181x Suite of CATV Amplifiers

May 5, 2021 – [Mouser Electronics](https://www.mouser.com), Inc., the industry's leading New Product Introduction (NPI) distributor with the widest selection of semiconductors and electronic components, is now stocking the [QPL181x](#) suite of CATV Amplifiers from [Qorvo](#)®. The QPL181x amplifiers are gallium arsenide (GaAs) pseudomorphic high-electron-mobility transistor (pHEMT) CATV RF amplifiers that provide engineers with space-saving options for designs and applications within the 50 MHz to 1800 MHz cable spectrum. Applications include [cable modems](#), optical nodes and set-top boxes, as well as DOCSIS 4.0, fiber to the home (FTTH), GPON, and GEAPON [communications](#).

The Qorvo [QPL1817](#) and [QPL1816](#), available from Mouser Electronics, are single-ended, 75-ohm, low-noise, low-distortion CATV-RF amplifiers with 15dB and 10dB of gain, respectively. These ICs in SOT-89 configuration are ideal for infrastructure or satellite projects. Mouser also offers the [QPL1815](#) differential CATV amplifier, a low-noise, high-performance monolithic microwave integrated circuit (MMIC) amplifier featuring 11dB of gain, with dual amplifiers in a push-pull configuration for excellent second- and third-order linearity performance. This amplifier is ideal for DOCSIS 4.0 applications.

The Qorvo [QPL1812](#) is a single-ended, high-performance pHEMT MMIC amplifier, featuring 19dB of gain and an active integrated bias circuit for stable gain over temperature and process variations. The [QPL1811](#) 75-ohm amplifier is a broadband DOCSIS 4.0 MMIC with 16dB gain, with two amplifiers in a push-pull configuration for robust second- and third-order linearity performance. For FTTH applications, Mouser stocks the low-noise [QPL1810](#) amplifier, which features 20dB of flat gain and utilizes a single 5V power supply, expandable to 8V depending on linearity requirements.

The QPL181x amplifiers are each supported by corresponding [evaluation and development kits](#), also available from Mouser Electronics. Each device's development kit features a pre-mounted amplifier along with support circuitry and connectors for rapid prototyping.

To learn more about the Qorvo QPL181x amplifiers, visit <https://www.mouser.com/new/qorvo/qorvo-qpl181x-catv-amplifiers/>.

As a global authorized distributor, Mouser offers the world's widest selection of the newest semiconductors and electronic components — in stock and ready to ship. Mouser's customers can expect 100% certified, genuine products that are fully traceable from each of its manufacturer partners. To help speed customers' designs, Mouser's website hosts an extensive library of technical resources, including a [Technical Resource Center](#), along with product data sheets, supplier-specific reference designs, application notes, technical design information, engineering tools and other helpful information.

About Mouser Electronics

Mouser Electronics, a Berkshire Hathaway company, is an authorized semiconductor and electronic component distributor focused on New Product Introductions from its leading manufacturer partners. Serving the global electronic design engineer and buyer community, the global distributor's website, mouser.com, is available in multiple languages and currencies and features more than 5 million products from over 1,100 manufacturer brands. Mouser offers 27 support locations worldwide to provide best-in-class customer service in local language, currency and time zone. The distributor ships to over 630,000 customers in 223 countries/territories from its 1 million-square-foot, state-of-the-art distribution facilities in the Dallas, Texas, metro area. For more information, visit <https://www.mouser.com/>.

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