



New Product Announcement

TI's LMG3410R070 GaN Power Stage, Now at Mouser, Supports High-Density Needs of Powerful New Electric Motors

November 8, 2018 – [Mouser Electronics](#), Inc., the authorized global distributor with the newest semiconductors and electronic components, is now stocking the [LMG3410R070](#) 600 V 70 mΩ gallium nitride (GaN) power stage from [Texas Instruments](#) (TI). Boasting ultra-low input and output capacitance, the LMG3410R070 supports new requirements for high-power-density electric motor applications, including [industrial](#) and consumer [power supplies](#). The high-performance GaN power stage supports higher currents, temperatures, voltages, and switching frequencies than silicon transistors, while reducing switching losses by up to 80 percent.

The [TI LMG3410R070](#) GaN power stage, available from Mouser Electronics, features an integrated gate driver and robust protection to offer [improved performance](#) compared with silicon MOSFETs and insulated-gate bipolar transistors (IGBTs). The device delivers zero common source inductance, a user-adjustable slew rate of 25 to 100 V/ns, and a 20 ns propagation delay for mHZ operation. The robust IC features over-current protection with greater than 150 V/ns slew rate immunity, over-temperature protection, and transient over-voltage immunity, as well as overvoltage lockout protection on all supply rails. Housed in a compact, 8 mm × 8 mm QFN package, the LMG3410R070 power stage requires no external protection components, allowing for simplified design and layout processes.

The powerful LMG3410R070 is well suited for performance with the [KC-LINK](#) surface mount capacitors from [KEMET Electronics](#). Designed to meet the demands of fast-switching semiconductors like the TI LMG3410R070 IC, the KC-LINK capacitors feature extremely low effective series resistance and thermal resistance, allowing the devices to withstand the stress of high-frequency, [high-voltage](#) DC link applications.

The superior power density offered by the TI LMG3410R070 power stage enables efficient topologies like the totem-pole PFC, delivering a power supply-size reduction of up to 50 percent. The LMG3410R070 IC is ideal for applications including multi-level converters, solar inverters, high voltage battery chargers, and uninterruptible power supplies.

For more on how TI's LMG3410R070 GaN power stage and KEMET KC-LINK capacitors combine to maximize a GaN power solution, visit eng.info.mouser.com/kemet-ti-gan-solutions.

To learn more about the TI LMG3410R070 power stage, visit www.mouser.com/ti-lmg3410r070-gan-power-stage.

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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