GOWANDA ELECTRONICS INTRODUCES CHIP INDUCTORS FOR POWER & RF APPLICATIONS

SMP0603 Series Ideal for Test & Measurement, Industrial Control & Automotive Sectors

(Gowanda, NY, USA) - Gowanda Electronics, a designer and manufacturer of high-performance inductors and magnetic components for demanding RF and power applications, and a member of the iNRCORE family of brands, announces the introduction of its first ceramic core chip inductor series for power applications - SMP0603. This new power series is ideal for use in test & measurement, industrial control and automotive sectors. These high performance chip inductors can also be utilized in RF applications in commercial, medical and military markets.

The SMP0603 series was designed to address the power electronics market need for ceramic chip inductors with high current handling. An inductor with a high current rating is essential for DC/DC converters and switching power supplies utilized in test & measurement equipment, industrial control equipment and in automotive applications such as electric vehicles and charging stations. This high performance series is also well-suited for RF environments including communication, guidance, security, radar and test & measurement applications.

Gowanda’s SMP0603 inductor series will be featured at the 2022 Applied Power Electronics Conference in Houston on March 20-24, 2022. Please stop by iNRCORE’s booth #1708 at APEC to learn more.

The performance range provided by the 37 discrete parts within the SMP0603 series includes Inductance from 1.8 nH to 27 nH, DCR Ohms from 0.010 to 0.040 and Current Rating mA DC from 1750 to 3400. All of Gowanda’s chip inductors, including this new series, meet a TML (Total Mass Loss) outgassing requirement of 1.0% maximum when tested in accordance with ASTM E595. Standard terminations are gold-plated nickel and RoHS-compliant.

The SMP0603 inductors are designed with a flat top cover for pick and place assembly and they are suitable for reflow soldering. Operating temperature range for this power series is -40°C to +125°C. More technical information is available on this series at the company website’s SMP0603 Series Page including the SMP0603 Datasheet, SMP0603 Dimensional Specification and other helpful information.

Unlike other chip manufacturers, Gowanda’s chip inductors utilize co-fired terminations and fully encapsulated designs to address the market need for chemical resistance, vibration/shear resistance, electrical and mechanical integrity, durability during handling/processing and implantable device components (human body).

This product line expansion leverages the company’s similarly-sized ceramic chip RF inductor series (CC0603) which has been optimized for higher current handling in order to make the new SMP0603 series suitable for power applications.

Gowanda offers numerous RF chip inductor series including QPL versions for military applications. An overview of the company’s entire chip inductor product line with links to each series is available at Gowanda’s Chip Inductors page.

For more information regarding part pricing and delivery or for assistance with customer-specific designs please contact Gowanda Electronics at +1-716-532-2234 or email sales@gowanda.com.
Gowanda Electronics designs, manufactures and supplies precision electronic components for RF, microwave and power applications. Components include standard off-the-shelf and custom-designed inductors, chokes, coils, conicals, solenoids, toroids, transformers and magnetic devices in surface mount and thru-hole configurations that are used in a wide variety of electronic applications. Gowanda's products are used primarily by OEM companies and other entities interested in high performance electronic component solutions for the equipment and devices they manufacture. Applications include use in industrial automation & control equipment, communication, instrumentation, medical & diagnostic equipment/devices and test & measurement equipment. Such products are used in a broad range of industries including aviation/aerospace, data processing, defense, education, health care, process & assembly industries, security, space and telecommunications. Gowanda's customers include Fortune 500 companies and other significant players in these global markets. The company is certified to AS9100, ISO 9001 and ISO 13485 quality management standards, offers RoHS compliant products as well as lead-containing components for QPL military/defense and other demanding requirements, and provides non-magnetic inductors for magnetic-sensitive applications. Gowanda is now a member of the INRCORE family of brands. For more information visit www.Gowanda.com and www.INRCORE.com.

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Note: if pdf links do not work correctly (due to updating of pdf files) please use the Series Information link to navigate to current pdfs.

Helpful Links:

- Gowanda SMP0603 Series Information
- Gowanda SMP0603 Series Datasheet
- Gowanda SMP0603 Dimensional Spec
- Gowanda Chip Inductors
- 2022 Applied Power Electronics Conference (APEC)

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