



**FOR IMMEDIATE RELEASE, MM207  
March 16, 2005**

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*F49 ferrite material enables miniature high-current inductor designs with low losses...*

## **MMG DEVELOPS POWER FERRITE MATERIAL FOR USE IN POINT-OF-LOAD AND VOLTAGE REGULATOR MODULE DESIGNS**

AUSTIN, TX -- (March 16, 2005) — Providing power module design engineers with a means to manufacture miniature inductors for point-of-load (POL) inductors and voltage regulator modules (VRMs), TT electronics MMG has developed a new power ferrite material that is designed specifically to handle high saturation currents in small packages with low losses. Designated as F49 ferrite material, it exhibits a high saturation flux density of 580 mT with losses minimized between 60 and 80°C.

“Although this new very high Bsat material has slightly higher losses than our commercial F48 or F47 grades, the improved saturation flux density in the F49 makes this material an ideal choice for many power management applications where potential saturating currents are a concern,” said Brian Wiese, director of sales and marketing for MMG. “For example, this material works well for the DC-DC buck topology, miniature inductors that are typically used in P-O-L applications, and even has the potential to be used in POTS filter inductors for DSL applications.”

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## MMG DEVELOPS POWER FERRITE MATERIAL, PG 2

In addition to its use in POL inductors, MMG's F49 material is ideal for power transformer applications or in voltage regulator modules typically used for powering microprocessors on computers.

The F49 ferrite material is available in all of MMG's standard geometries, including ER, E/I or E/E planar, RM and EFD cores. Lead-times vary from stock to 6 weeks.

For more information on MMG's F49 power ferrite material or other products, contact MMG at 271 Route 46 West, Suite H-204, Fairfield, NJ 07004; by phone 973-227-2776; fax 973-227-1137; via email [sales@mmgca.com](mailto:sales@mmgca.com), or on the Web at [www.mmgca.com](http://www.mmgca.com).

TT electronics MMG, a subsidiary of TT electronics plc, specializes in the design, development and manufacture of magnetic materials, such as soft ferrites, permanent magnets, and iron powder for electronic and industrial applications.

TT electronics plc is a global electronics company manufacturing a broad range of advanced electronic components, assemblies and sensor modules for the automotive, telecommunications, computer and aerospace markets. The company is publicly traded on the London Stock Exchange (GB:TTG).

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Keywords: TT electronics, MMG, F49, ferrite, point-of-load, VRM, magnetics