

# **New 19-Micron Embedded Capacitance Material from 3M Offers Cost-Effective Option to Reduce Size and Increase Speeds in Printed Circuit Boards**

The new 19-micron 3M Embedded Capacitance Material (ECM), introduced by 3M Electronic Solutions Division, offers printed circuit board manufacturers a high-performing choice for cost-sensitive applications.

3M ECM is a thin, high-performance embedded capacitor laminate for printed circuit boards. The material helps reduce impedance, power bus noise, EMI and discrete capacitor count. The material is designed for OEMs with high-speed digital and low-pass filter designs and who seek to differentiate their products through dramatically improved performance and reduced size.

The new 19-micron thickness is suited for cost-sensitive equipment, such as handheld electronics, where functionality and size constraints drive design.

The material's high capacitive density allows it to perform the power supply decoupling function so that the number of discrete capacitors may be reduced, increasing useable board space and allowing for board size reduction.

3M ECM is compatible with most rigid and flex printed circuit board processing, including laser drilling. Fabricators and OEMs worldwide may use 3M ECM without a purchasing license from 3M. The material is RoHS compliant\*.

## About 3M Electronic Solutions Division

3M Electronics Solutions Division offers innovative solutions to the electronics market, such as static control products; copper interconnect systems; cables and cable assemblies; carrier and cover tapes and trays; flexible circuits; embedded capacitor materials; and Textool-brand test and burn-in sockets. For more information on interconnect solutions available from the 3M Electronic Solutions Division, visit [www.3M.com/electronics](http://www.3M.com/electronics).

## About 3M

A recognized leader in research and development, 3M produces thousands of innovative products for dozens of diverse markets. 3M's core strength is applying its more than 40 distinct technology platforms – often in combination – to a wide array of customer needs. With \$25 billion in sales, 3M employs 76,000 people worldwide and has operations in more than 60 countries. For more information, visit [www.3M.com](http://www.3M.com).

*\*"RoHS Compliant 2002/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. This information represents 3M's knowledge and belief, which may be based in whole or in part on information provided by third-party suppliers to 3M.*

3M and Textool are trademarks of 3M.

All other trademarks listed herein are owned by their respective companies.

*Editors: Electronic images available upon request. Please contact Jane Kovacs at [jkovacs@3M.com](mailto:jkovacs@3M.com).*

Key words: 3M, embedded capacitance material, EMI, flex circuitry

3MJane Kovacs, 512-984-6747jkovacs@3M.comTwitter @3MJaneorFor all other inquiries:<http://tinyurl.com/3MPressContact>

---

<https://news.3m.com/2009-06-24-New-19-Micron-Embedded-Capacitance-Material-from-3M-Offers-Cost-Effective-Option-to-Reduce-Size-and-Increase-Speeds-in-Printed-Circuit-Boards>