

## FOR IMMEDIATE RELEASE

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## **TYCO ELECTRONICS EXPANDS ESD PROTECTION PORTFOLIO WITH INDUSTRY'S SMALLEST 0201 PACKAGE**

### **Miniature Form Factor, Bi-Directional Technology and Ultra-Low Capacitance Make SESD Protection Devices Suitable for Mobile and Portable Electronics Applications**

MENLO PARK, CA -- Feb. 22, 2010 -- [Tyco Electronics](http://www.tycoelectronics.com) provides three new devices to its line of electrostatic discharge (ESD) protection devices. The 0201-sized Silicon ESD (SESD) devices are approximately 70 percent smaller than prior generation 0402-sized devices and help provide protection and improve reliability of portable electronics such as mobile phones, MP3 players, PDAs and digital cameras.

The SESD device's miniature footprint — measuring a mere 0.6mm x 0.3mm x 0.3mm — offers designers flexibility in space-constrained applications. Bi-directional operation allows placement on the PCB without orientation constraint and won't clip signals that swing below ground. Designed to withstand IEC61000-4-2 ESD test pulses, the SESD device helps protect sensitive integrated circuits (ICs).

Tyco Electronics' initial offerings in the 0201 chip scale package (CSP) include the SESD0201C-006-058 and the SESD0201C-120-058. The SESD0201C-006-058 is a bi-directional and ultra-low capacitance 0.6 picofarad (pF) device that is suitable for protecting very-high-speed data lines, such as USB and HDMI, or low-voltage antenna ports. The device's ultra-low capacitance, low insertion loss (<0.5dB up to 3GHz) and high linearity of voltage vs. frequency helps minimize signal degradation.

The SESD0201C-120-058 is a higher capacitance (12pF) device that can be used for low-speed generic interfaces such as keypads, power buttons, speakers and microphone ports in portable electronics. Both SESD0201C-006-058 and SESD0201C-012-058 devices offer 8kV contact and 15kV air discharge protection per the IEC61000-4-2 standard.

“As integrated circuits shrink, so does their ability to withstand ESD stress, thereby increasing the risk of circuit damage,” said Patrick Hibbs, Global Communication Systems Marketing and ESD Business Manager for Tyco Electronics’ Raychem Circuit Protection Products. “Our new SESD product line helps designers faced with difficult board routing and space requirements. New micro-USB and micro-HDMI connections in portable electronics are excellent examples of applications where miniature surface-mount passives can help provide a robust, space-saving and cost-effective ESD protection solution.”

Tyco Electronics is also introducing the SESD0402S-005-054 device, an ultra-low capacitance SOD-923 (i.e., 0402-size package) device with 0.5pF typical capacitance, and a 10kV contact discharge rating per IEC61000-4-2 for use with digital applications such as USB and HDMI.



For further information or technical assistance, call (800) 227-7040, or visit [www.circuitprotection.com](http://www.circuitprotection.com).

**Price:** Available on request  
**Availability:** All devices are available now.  
**Delivery:** 10 weeks ARO

## **ABOUT TYCO ELECTRONICS**

Tyco Electronics Ltd. is a leading global provider of engineered electronic components, network solutions, specialty products and undersea telecommunication systems, with fiscal 2009 sales of US\$10.3 billion to customers in more than 150 countries. We design, manufacture and market products for customers in a broad array of industries including automotive; data communication systems and consumer electronics; telecommunications; aerospace, defense and marine; medical; energy; and lighting. With approximately 7,000 engineers and worldwide manufacturing, sales and customer service capabilities, Tyco Electronics' commitment is our customers' advantage. More information on Tyco Electronics can be found at <http://www.tycoelectronics.com/>.

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