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LUMEX'S NEW *OctoLED*[™] IS FIRST IN MARKET TO COMBINE SURFACE MOUNT CONVENIENCE WITH THROUGH-HOLE T-5MM LED FEATURES

PALATINE, IL – Lumex announces a new line of surface-mount devices that represent the first commercial technology to combine the convenience of surface-mount technology (SMT) with the features and capabilities of through-hole, leaded T-5mm epoxy lens LEDs.

The patent-pending OctoLEDs[™] devices are the result of a design breakthrough at a time when most assemblies are moving toward SMT technology. “The OctoLED design is a direct replacement to standard 5mm through-hole LEDs,” explains Jeff Oliveros, Director of Engineering at Lumex. “OctoLEDs[™] are ideal for any situation where there is a need to transition from through-hole to SMT technology, without sacrificing the light emission features of epoxy lenses.”

The new OctoLEDs deliver brightness levels of up to 7,000mcd (dependent on color) – a market first from any conventional SMT LED driven by the common I_f of 20mA.

Lumex OctoLEDs[™] (Series Number SML-H1505xxx-TR) can be used anywhere the convenience of surface mounting is required, with the high brightness, color and viewing angle choices of standard T-5mm LEDs. Such applications include front panel, PCB multi-LED, industrial control or fault indicators. Additional applications include circuit fault and large scale multi-color light bars, large display edge illumination, dot matrix moving sign displays and other dot matrix arrays where each LED needs to be individually-addressable.

OctoLEDs have an off-the-board height of 11mm (0.43 inches) and occupy a circuit board footprint which is 6mm x 6mm (0.24 inches x 0.24 inches). They are available on standard 24mm tape for automatic insertion.

Lumex OctoLEDs[™] are available in the full range of colors including red, yellow, green, blue, or white. Bi-color as well as RGB versions are also offered. The LEDs are available with a variety of lens finishes, opening the door to different viewing angle options, (angle will vary dependent upon lens type).

The new units can withstand soldering temperatures of up to 10 seconds at 255° C. A gradual temperature rise of 2° per second reaching 150° C is recommended. Lumex OctoLEDs[™] are RoHS compliant.

Samples of these devices in standard colors are available from stock, with production quantities in 8 - 12 weeks. Pricing is dependent on color specified and quantity ordered, and is approximately \$0.30 per unit in production quantities.

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About Lumex

Lumex, an ITW company, is a leading designer, manufacturer and distributor of opto- and photo-electronic components, devices and displays. These products are used mostly in the man-to-machine interface, and in some cases, for the detection of motion, short-range signaling, and fiber communications. Lumex now offers thousands of items, with an emphasis on both application-specific and customer-specific parts for the North American, Asian and European markets.

The company is headquartered in Palatine, Illinois and Chu Dung, Hsin Chu County, Taiwan, ROC, with a Sales and Operations center near Frankfurt, Germany. Manufacturing facilities are located in Illinois, Taiwan and China with distributors throughout North America, Europe and the Pacific Rim. Since its inception in 1980, Lumex was established as a global organization offering application-specific solutions – but with the manufacturing efficiencies normally associated only with volume operations. Lumex received its initial ISO 9001 registration in 1996.

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Photograph: (LumexOctoLED.jpg) – 300 dpi jpeg image

Photo Caption: Lumex OctoLEDs combine the convenience of surface-mount technology with the features and capabilities of thru-hole, leaded T-5mm epoxy lenses.

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