

CoreLED Systems, LLC Surface Mounted Optics offers low-cost, high-precision solution for lens/reflector designs with IR, Visible and UV LED lighting, delivered using tape and reel for automated solder reflow assembly.

Livonia, Michigan – April 28th, 2022. CoreLED Systems LLC team of optical design experts introduce innovative solutions that are sure to revolutionize how IR sensors are used in the automotive industry.

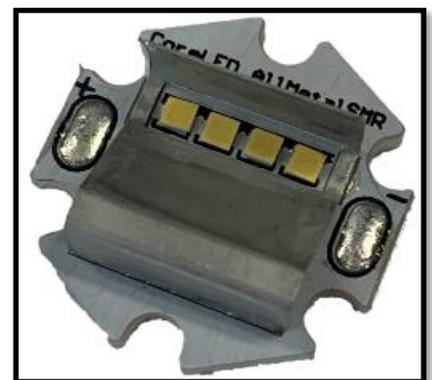
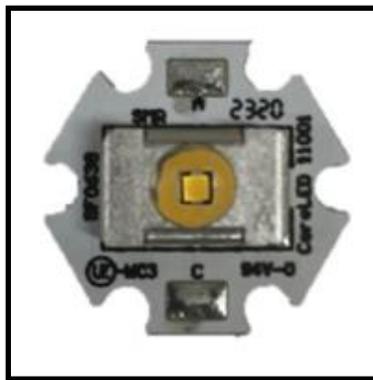
CoreLED has announced the launch of its newest product family of Surface-mounted reflectors/Surface-mounted Optics (SMR/SMO). These unique products are designed to work with LEDs and attach directly to the PCB using standard solder reflow technology, eliminating the need for secondary assembly steps and costly customized designs and tooling of optical components.

There are many potential applications for these small optics (some of them are less than 10mm in size), whether it is automotive, horticultural, medical, or even commercial industries. For applications where light control is paramount with a thought toward package space constraints, the SMR/SMO family of optics offers an optical solution that is off-the shelf, but could also be customized to specific customer needs.

Derek Mallory, president of CoreLED, explains:

“Historically, many lighting assemblies involve optical systems which attach to the PCB using secondary attachment steps such as welding, snap-fit, gluing, screws, etc. These additional steps add labor, time, and cost to the process of using an optic. These systems often have poor alignment due to tolerance stack-up, thereby causing performance issues. By offering an automated, proven assembly process using tape and reel feeding into solder reflow assembly, we can improve the assembly process while maintaining precision placement of the optic in relation to the LED/Emitter Source.”

“This new technology is clearly starting to take a foothold in the automotive industry and is innovative in its simplicity of execution. We anticipate a growing level of usage over the next 5-10 years.”



About CoreLED Systems LLC:

Founded in 2003 in Plymouth, Michigan, CoreLED Systems, LLC is a privately held company that provides engineers and buyers of LED Optics and Electro-Optical Systems support for their optical projects.

CoreLED Systems LLC products include: Lenses, LED modules, Reflectors, Light Guides, Surface Mount Components, Optical and Electromechanical lighting assemblies.

Our products cover sectors of commercial lighting, consumer products, medical systems and specialty markets. All projects are supported with the latest robust design, manufacturing, optical test, and validation techniques following our ISO9001 and IATF16949 certified quality management systems. All design, tooling, and manufacturing is USA based.

To find out more about CoreLED Systems, LLC and their products you can visit our website at:

<https://coreled.com/>