

## **OPTEK Technology: Lead Free and RoHs Compliant**

Responding to the European Union's RoHs/RoHs2 compliance directives, TT electronics OPTEK Technology has developed a comprehensive approach to ensuring that all standard commercial products meet RoHs/RoHs2 compliance standards. OPTEK has converted or adapted all standard commercial products in its optoelectronic sensor assemblies and components, fiber optic components, visible LED discretes and optoelectronic hybrids to comply with RoHs/RoHs2 standards.

OPTEK is committed to not only meeting the RoHs/ RoHs2 standards, but to going above and beyond to ensure that all of the required products are compliant, including inspecting raw materials, converting solder materials and processes, and testing finished components before shipment to the customer.

**Custom Automotive Sensor Assemblies** - These products are converted by the ELV (End of Life Vehicle) portion of the EU (European Union) directive and are being addressed on a case-by-case basis, working with the customer. New products are being designed with the ELV requirements, while legacy products are supported per customer direction.

**Custom Optoelectronic Sensor Assemblies** - These products are being addressed on a case-by-case basis, most products are being converted to be RoHs/RoHs2 compliant. New products are being designed with RoHs requirements in mind. Issues such as solder selection Pb-free (SAC 305), Bromines [fire retardants](#) in PWB, and RoHs compliance of all purchased components within the EU directive are being addressed.

**Fiber Optic Components** - The overwhelming majority of these products were designed to be Pb-free and RoHs compliant with no changes. OPTEK has verified that these products will support the Pb-free processes and all materials and sub-components are RoHs compliant. No part number changes are planned on these products. (OPTEK's transceiver products, which are not RoHs compliant, have been discontinued.)

**Military & Aerospace (Hi-Rel) Products** - These products are exempt and no changes are planned for these products and/or the processes used to manufacture them.

**Optoelectronic Components** - These products were designed to be RoHs/RoHs2 compliant with no changes. OPTEK has verified that these products will support the Pb-free processes and verified all materials and sub-components are RoHs/RoHs2 compliant. No part number changes are planned on these products.

**Optoelectronic Sensor (Slotted and Reflective Optical Switches)** – The overwhelming majority of the PWB mount products were designed to be Pb-free and RoHs compliant. OPTEK has verified that these products will support the Pb-free processes and all materials and sub-components are RoHs/RoHs2 compliant. No part number changes are planned on these products.

Versions of these products supplied with PWB, solder, wires or [connectors](#), have been qualified for Pb-free solder processes, as well as converted any materials, wires and or connectors to be RoHs compliant. The products that are converted to RoHs/RoHs2 compliance have a "Z" suffix added to the part number.

**Surface Mount Chip Carrier (Hybrids)** - These products were designed to be Pb-free and RoHs compliant with no changes. We have verified that these products will support the Pb-free processes and verified all materials and sub-components are RoHs/RoHs2 compliant. No part number changes are planned on these products.

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