

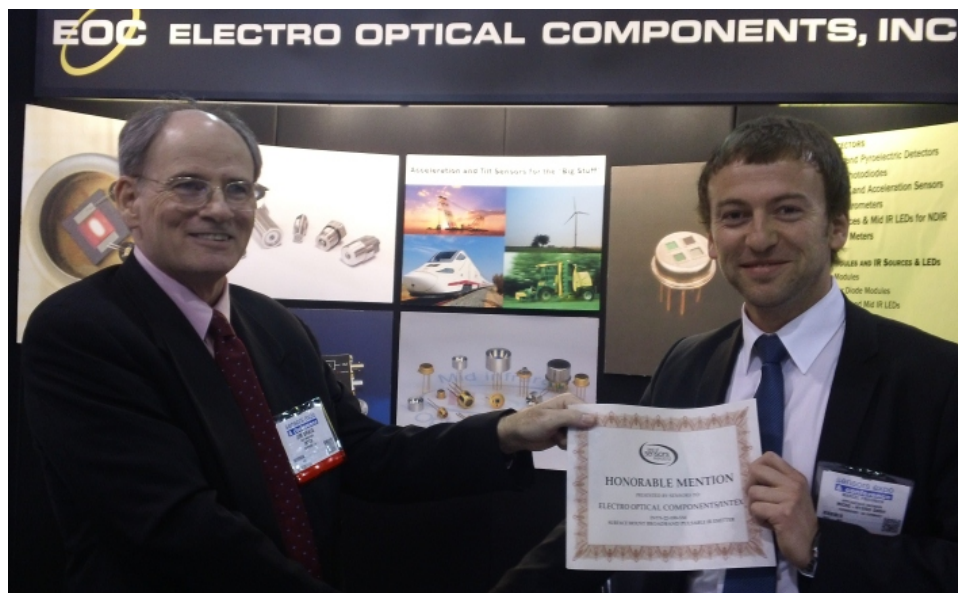


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FOR IMMEDIATE RELEASE

Micro-Hybrid Surface Mount IR Sources Wins Award at Sensors Expo, 2012



The Micro-Hybrid surface mount IR source was awarded Honorable Mention for New Products at the 2012 Sensors Expo, Rosemont IL..

The Micro-Hybrid line of wideband infrared emitters are MEMS devices that operate at a temperature of 750 °C and emit radiation according to the Planck Radiation Equation. The emission area is approximately 2 mm square, the power requirement is approximately 1 watt and they will come up to full operating temperature in approximately 20 mS. They are traditionally packaged in TO-5 or TO-39 through-hole headers. These devices are now available in Surface Mount ceramic packages with or without optical band pass windows.

Having the Micro-Hybrid IR emitters available in Surface Mount Ceramic packages will allow design engineers to apply a precision IR emitter in new sensors that can be smaller and lower cost than previous generations. Using IR emitters in SMD packages will eliminate secondary assembly operations of mounting a through hole component common to many infrared sensors today.

Micro-Hybrid wideband IR emitters operate at higher temperature and modulate faster than competitive technology. This yields higher signal to noise ratios in sensor applications. Manufacturing Micro-Hybrid's blackbody emitters in Surface Mount packages enable production of smaller products like sensors for ambient air and other embedded applications.

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Surface Mount Technology is also less costly saving money on the package as well as enabling high speed automatic assembly. At high volumes new applications are enabled via reduced cost. Surface mounting allows board level construction of tightly spaced arrays of emitters enabling new designs for supplying larger area and larger power infrared radiation.

Micro-Hybrid blackbody emitters are used as a source of precision broadband infrared radiation in spectroscopic instruments such as spectrophotometers, gas analyzers and environmental pollution monitors. They have an alternate use as an infrared marker beacon, visible only with night vision equipment and as indirect radiation heat sources for micro liter samples.

Micro-Hybrid manufactures high quality pulsable IR sources for use with pyroelectric and lead selenide (PbSe) detectors gas analysis for applications including Medical, Refinery, Mining, Automotive and Semiconductor Instrumentation.