



Press Release Sensor + Test 2013

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Jenoptik presents hermetically solderable IR components at Sensor + Test.

At the 2013 Sensor + Test trade fair in Nuremberg, Jenoptik presents hermetically solderable infrared filters, windows and cover windows for gas sensor applications and gas analysis. Free geometries, even smaller than two millimeters, with individual optical coating can be achieved using this patented product technology.

Hermetically soldered infrared filters, windows and cover disks for infrared sources and detectors are used in closed systems for gas sensors and analysis. Compared to traditional filters adhered to the housing, these soldered components are firmly attached to it and guarantee a gas-tight sealing of the assembly. The new production technology allows you to design any type of geometry with high numbers of pieces at marketable prices.

Jenoptik develops and manufactures [IR components](#) for customized applications using the typical infrared materials, such as germanium, silicon and sapphire. Depending on the customers' demand and field of application, the external form, geometry and optical coating may be flexibly varied and combined. It is possible to use anti-reflection layers but also dual-band or multi-spectral coating as well as resistant hybrid diamond-like-carbon (DLC) layers. Recognized test standards, such as TS 1888 and MIL-C-48497, are satisfied. The edges of the components are metallized to prepare for soldering.

IR filters, windows and cover windows are suitable, for example, for non-dispersive infrared (NDIR) spectroscopy in the entire infrared spectral range. Typical fields of use include MEMS IR sources, infrared detectors, endoscopes and infrared assemblies in devices for the medical industry used for respiratory gas analysis, exhaust gas measurement in automotive industry, process monitoring in chemistry, environmental engineering and safety-related applications.

The services include product development to high-volume series production. The components are characterized by high-quality and resistant optical features, even under extreme conditions.



Image:
Hermetically solderable IR components
[Link to the image database.](#)

Visit us at 2013 Sensor + Test, from May 14th to 16th in Nuremberg, hall 12, booth # 355.



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About the Jenoptik Optical Systems division

Through its [Optical Systems division](#), the Jenoptik Group delivers world class precision optics and systems designed and manufactured to the highest quality standards.

Besides offering customized systems, modules and assemblies, the Optical Systems division is a development and production partner for optical, microoptical and coated optical components - made of optical glasses, IR materials as well as polymers.

It possesses outstanding expertise in the development and manufacture of optics and microoptics for beam shaping used in the semiconductor industry and laser material processing.

The product portfolio also includes components and systems for the areas of defense & security, life sciences and lighting as well as for digital image capture and processing.

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