



Filters for the Infrared Spectral Range

Optimal transmission and blocking. High variety of geometries.
Highly resistant to environmental influences.



Benefits:

Individual customer demands for optical components used in the areas of thermography and spectroscopy require continuous new developments of optical layers. Optimal adaptation of pass bands and blocking of defined spectral ranges are what yields high accuracy and stability of optical features in a given application.

JENOPTIK offers a comprehensive range of narrow band, band pass, cut off and multifunctional filters for applications in the Infrared Spectral Range between 2 - 20 μm . Highly efficient as well as cost-effective solutions can be manufactured in an industrial scale.

A high environmental resistance is achieved through the selection of suitable materials and procedures.

All components are routinely tested for compliance with DIN ISO or MIL standard requirements.

Applications:

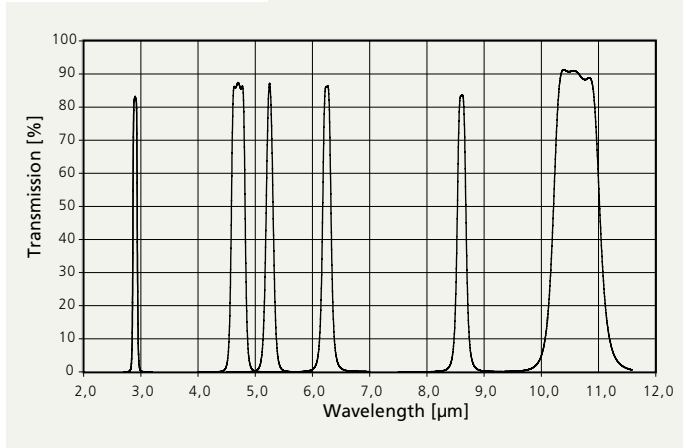
- Thermography
- Spectroscopy
- Gas analysis
- Radiation pyrometry
- Metrology and device engineering

Filters for the infrared spectral range

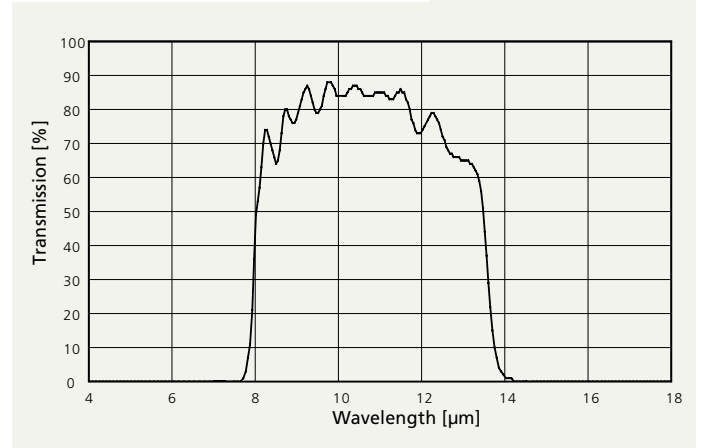
Specifications

Substrate materials:	Germanium, silicon, sapphire, others
Coatings:	Narrow-band filters, bandpass and cut off filters for the spectral range between 2 ... 20 μm Small temperature shifts High blocking Also available with metal coating on customer request
Special features:	Highly resistant and environmentally stable coatings (MIL-F-48616) Coatings free of radioactive materials Highly efficient and cost-effective coatings
Technology and manufacturing know how:	Advanced coating technologies Extensive test and measurement facilities to verify environmental resistance Qualification according to DIN ISO and MIL

Example 1: Filter for gas analysis.



Example 2: JENOFILT 701 broadband filter 8 - 14 μm .



It is our policy to constantly improve the design and specifications. Accordingly, the details represented herein cannot be regarded as final and binding.



JENOPTIK | Optical Systems
Optics Business Unit
JENOPTIK Optical Systems GmbH
Goeschwitzer Strasse 25 | 07745 Jena | Germany
Phone +49 3641 65-3148 | Fax -3677
optics@jenoptik.com | www.jenoptik.com/optics

JENOPTIK Optical Systems, LLC.
16490 Innovation Drive | Jupiter | FL 33478 | USA
Phone +1 561 881-7400 | Fax +1 561 881-1947
sales@jenoptik-inc.com | www.jenoptik-inc.com