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.

Applications:
• Thermography
• Spectroscopy
• Gas analysis
• Radiation pyrometry
• Metrology and device engineering

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.
Filters for the infrared spectral range

Specifications

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<th>Substrate materials:</th>
<th>Germanium, silicon, sapphire, others</th>
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| 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.

![Graph for Example 1](image1)

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

![Graph for Example 2](image2)

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