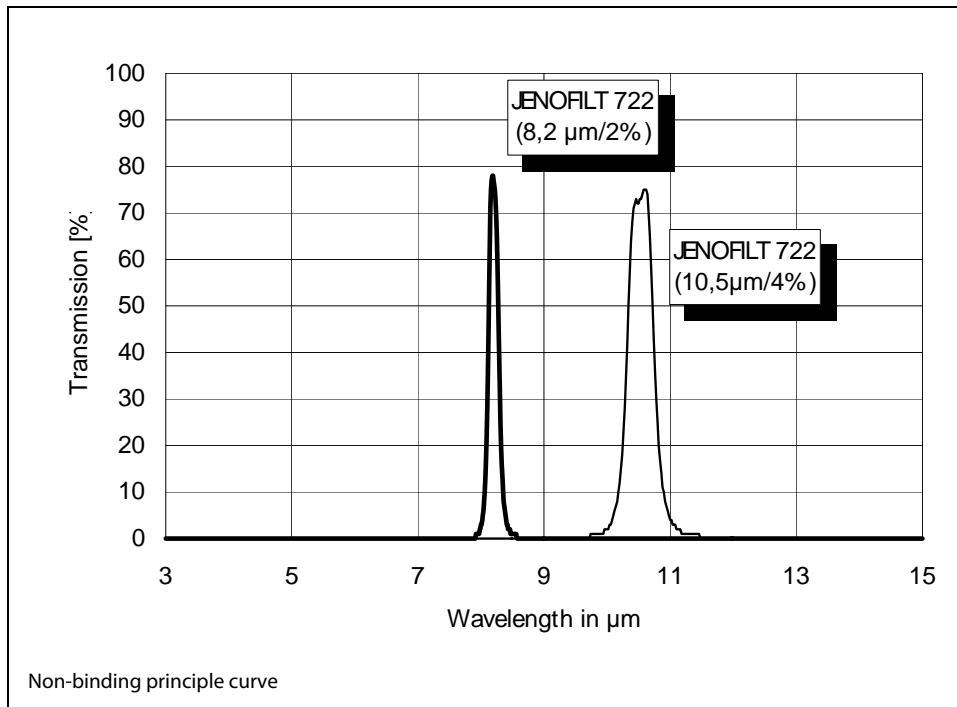


# JENOFILT 722

## Bandpass Filter on Germanium Substrates



## Bandpass Filter for IR

### Optical properties:

Centre wavelength  $\lambda_0$  (CWL):  $7 \mu\text{m} \leq \lambda_0 \leq 11 \mu\text{m}$   
 CWL tolerance  $\Delta\lambda_0$ :  $\lambda_0 \leq \pm 1 \% (\lambda_0)$   
 Half bandwidth (HBW):  $< 2 \%$  of  $\lambda_0$   
 optional  $< 4 \%$  of  $\lambda_0$   
 Peak transmission  $T_{\text{max}}$ : grade A  $T > 70 \%$   
 grade B  $T > 60 \%$   
 Bandwidth at 80%  $T_{\text{max}}$ :  $> 0.4$  HBW  
 Bandwidth at 5 % absolute transmission:  $< 2.5$  HBW  
 Bandwidth at 0.5 % absolute transmission:  $< 5$  HBW  
 Temperature coefficient of CWL:  $< 0.25 \text{ cm}^{-1}\text{K}^{-1}$   
 Transmission out of band :  $T_{\text{ava}} < 0.1 \%$   
 from UV to  $14 \mu\text{m}$

### Applications:

A complex coating technology guarantees a high transmission in the pass band and an excellent blocking up to  $14 \mu\text{m}$ . It makes these filters suitable for demanding functions in gas analysis equipment and pollution control.

### Durability:

Adhesion: MIL-F-48616 / section 4.6.8.1  
 Humidity: MIL-F-48616 / section 4.6.8.2  
 Abrasion resistance: MIL-F-48616 / section 4.6.8.3

### Substrate material:

1" germanium wafer, thickness 1 mm.  
 On request wafers can be cut into rectangular pieces  $> 5 \text{ mm}$ .

### Special features:

Other specifications on request.

### Issue:

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### Doc-No.:

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### Ordering code:

JENOFILT 722 (CWL/HBW)