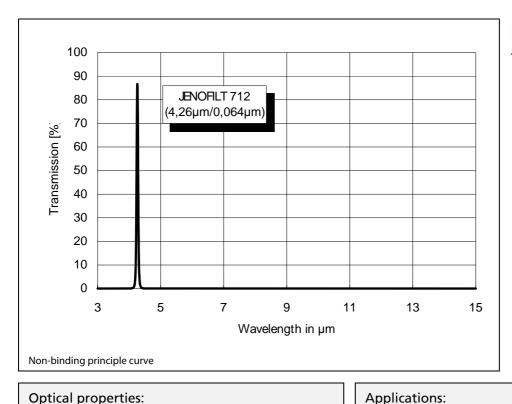
JENOFILT 712

JENOPTIK

Bandpass Filter on Sapphire Substrates



Bandpass Filter for IR

Optical properties:

Centre wavelength $_0$ (CWL): $3 \mu m \le _0 \le 6 \mu m$ CWL tolerance $\Delta \lambda_0$: $\Delta_{0} \leq \pm 1 \% (0)$

< 2 % of 0Half bandwidth (HBW):

Peak transmission T_{max}: grade A T > 70 %grade B T > 60 %

Bandwidth at 80% T_{max}: > 0.4 HBW

Bandwidth at 5 % absolute transmission: < 2.5 HBW Bandwidth at 0.5 % absolute transmission: < 5 HBW

Temperature coefficient of CWL: < 0.2 cm⁻¹K⁻¹

Transmission out of band: $T_{av\alpha} < 0.1~\%$ from UV to 30 μm

JENOFILT 712 meets highest standards in gas analysis equipment and pollution control. By the use of sapphire substrates transmission leaks above 8 µm are impossible. Thus, this type is especially suitable for high end devices, e.g. for medical application.

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" sapphire wafer, thickness 0.5 mm.

On request wafers can be cut into rectangular pieces > 2 mm.

Special features:

Other specifications on request.

Issue: Doc-No.: Ordering code:

JENOFILT 712 (CWL/HBW) November 95 fil712-99-14-1195-en