

— / 202 163      546 nm ± 5 nm    Δλ = 6-10 nm  
           202 168      578 nm ± 6 nm    Δλ = 6-10 nm

**Line filters**  
Spectral range  
400 nm to 1000 nm

Type	DAD-8 (3 cavities)
$\lambda_m$ tolerance (% of $\lambda_m$ )	± 1
Available with $\lambda_m$ in range [nm]	400-1000
Spectral values:	
Half width HW [nm]	6-10 ( $\lambda_m$ from 400 nm to 699 nm) 8-12 ( $\lambda_m$ from 700 nm to 1100 nm)
Maximum spectral transmittance $\tau_{max}$ within passband	≥ 0.40 ( $\lambda_m$ from 400 nm to 429 nm) ≥ 0.60 ( $\lambda_m$ from 430 nm to 479 nm) ≥ 0.65 ( $\lambda_m$ from 480 nm to 749 nm) ≥ 0.70 ( $\lambda_m$ from 750 nm to 1000 nm)
$Q = \frac{\text{center width}}{\text{half width}}$	approx. 1.5
$q = \frac{\text{thousandth width}}{\text{half width}}$	approx. 3.5
Blocking range [nm]	up to 1200
Average value $\tau_{0.1}$ of spectral transmittance within blocking range	≤ 10 <sup>-5</sup>
Other properties:	
Humidity resistance of filters with preferred dimensions	MIL-Std-810 C, method 507, proc. 1:5 cycles
Operating temperature	up to 70 °C for several hours up to 100 °C for short periods
Temperature dependence of $\lambda_m$ $\frac{\Delta\lambda_m}{\Delta T}$ [nm/°C]	approx. +0.02

Table 7: Specifications of filter type DAD-8

Preferred dimensions [mm]	
External dimensions	Dimensions of utilizable area
∅ 12 +0/-0.3	∅ 7.9
∅ 25 +0/-0.3	∅ 22
∅ 30 +0/-0.3	∅ 27
∅ 50 +0/-0.3	∅ 47
Thickness	≤ 7
Other dimensions on request	

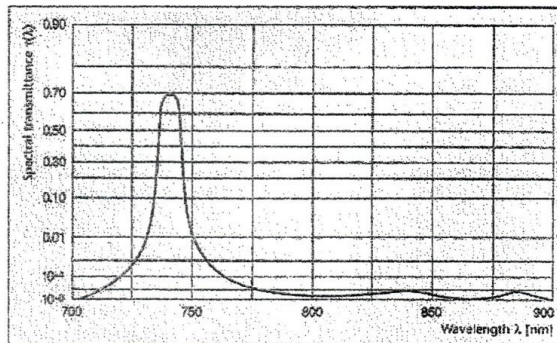


Fig. 15: Spectral transmittance curve (general curve) of filter type DAD 8