

Line filters
Spectral range
220 nm to 333 nm

Type	MAZ 8 (2 cavities)
λ_m -tolerance [% of λ_m]	± 0.5
Available with λ_m in range [nm]	220–333
Spectral values	
Half width HW [nm]	6–10
Maximum spectral transmittance τ_{max} within passband	≥ 0.15
$Q = \frac{\text{tenth width}}{\text{half width}}$	approx. 1.75
$q = \frac{\text{thousandth width}}{\text{half width}}$	approx. 4.5
Blocking range [nm]	unlimited
Average value τ_{SM} of spectral transmittance within blocking range	$\leq 10^{-5}$
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 λ_m $\Delta\lambda_m/\Delta T$ [nm/°C]	approx. +0.007
Notes	Filters delivered in mounts only. Fit filters with mirror side facing light source.

Table 3: Specifications of filter type MAZ 8

Preferred dimensions [mm]	
External dimensions	Dimensions of utilizable area
$\varnothing 12 \pm 0.15$	$\varnothing \geq 9$
Thickness	4.75 ± 0.1
Other dimensions on request	

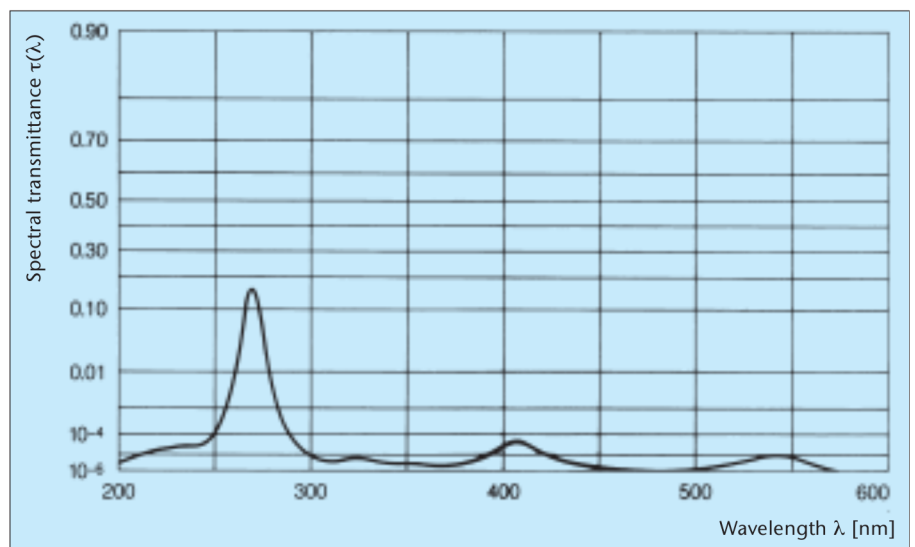


Fig. 11: Spectral transmittance curve (general curve) of filter type MAZ 8