Line filters Spectral range 400 nm to 800 nm

T	MAD 0 (2iti)
Type	MAD 8 (3 cavities)
λ_{m} -tolerance [% of λ_{m}]	± 1
Available with λ_m in range [nm]	400–800
Spectral values	
Half width HW [nm]	6–12 (λ _m from 400 nm to 800 nm)
Maximum spectral transmittance τ _{max}	≥ 0.30 ($\lambda_{\rm m}$ from 400 nm to 429 nm)
within passband	\geq 0.45 ($\lambda_{\rm m}$ from 430 nm to 800 nm)
$Q = \frac{\text{tenth width}}{\text{half width}}$	approx. 1.5
$q = \frac{\text{thousandth width}}{\text{half width}}$	approx. 3
Blocking range [nm]	unlimited
Average value τ_{SM} of spectral transmittance within blocking range	≤ 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. +0.02
Notes	Fit filters with mirror side facing light source.

Table 6: Specifications of filter type MAD 8

Preferred dimensions [mm]		
External dimensions	Dimensions of utilizable area	
ø 12 +0/–0.3	ø ≥ 9	
ø 25 +0/-0.3	$\emptyset \ge 22$	
ø 50 +0/–0.3	Ø ≥ 47	
□50 +0/–0.3	□≥ 47	
Thickness	≤ 7	
Other dimensions on request		

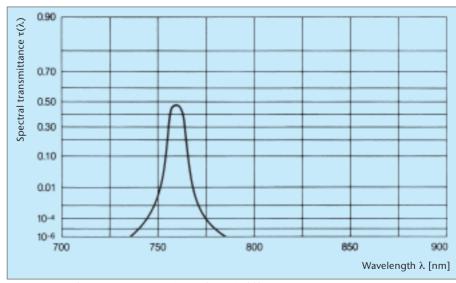


Fig. 14: Spectral transmittance curve (general curve) of filter type MAD 8