## Band filters Spectral range 400 nm to 599 nm

Туре	DMZ 20 (2 cavities)
$\lambda_m$ -tolerance [% of $\lambda_m$ ]	± 1
Available with $\lambda_m$ in range [nm]	400–599
Spectral values	
Half width HW [nm]	18–22
Maximum spectral transmittance $\tau_{\text{max}}$ within passband	≥ 0.45 (λ <sub>m</sub> from 400 nm to 449 nm) ≥ 0.50 (λ <sub>m</sub> from 450 nm to 599 nm)
$Q = \frac{\text{tenth width}}{\text{half width}}$	approx. 1.8
$q = \frac{\text{thousandth width}}{\text{half width}}$	approx. 6
Blocking range [nm]	unlimited
Average value $\tau_{SM}$ 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 $\lambda_m$ $\Delta\lambda_m/\Delta T \ [nm/°C]$	approx. +0.02
Notes	Fit filters with mirror side facing light source.

Table 10: Specifications of filter type DMZ 20

Preferred dimensions [mm]	
External dimensions	Dimensions of utilizable area
ø 12 +0/–0.3	ø≥ 9
ø 25 +0/–0.3	ø ≥ 22
ø 50 +0/–0.3	$\emptyset \ge 47$
□50 +0/-0.3	<u></u> ≥ 47
Thickness	≤ 6
Other dimensions on request	

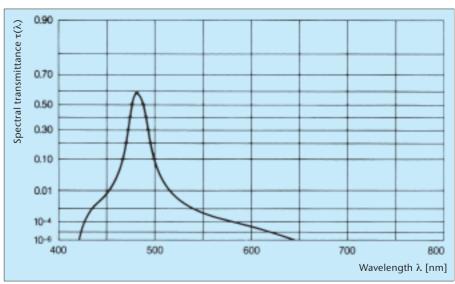


Fig. 18: Spectral transmittance curve (general curve) of filter type DMZ 20