Broadband filter Spectral range 400 nm to 800 nm

Туре	KMZ 50 (2 cavities)
λ_{m} -tolerance [% of λ_{m}]	± 1
Available with λ_m in range [nm]	400–800
Spectral values	
Half width HW [nm]	30–60 (λ _m from 400 nm to 800 nm)
Maximum spectral transmittance τ_{max} within passband	≥ 0.45 ($\lambda_{\rm m}$ from 400 nm to 449 nm) ≥ 0.55 ($\lambda_{\rm m}$ from 450 nm to 800 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 $ au_{SM}$ of spectral transmittance within blocking range	≤ 10 ⁻⁴
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 12: Specifications of filter type KMZ 50

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	ø ≥ 47	
□50 +0/–0.3	□≥ 47	
Thickness	≤ 4	
Other dimension	ons on request	

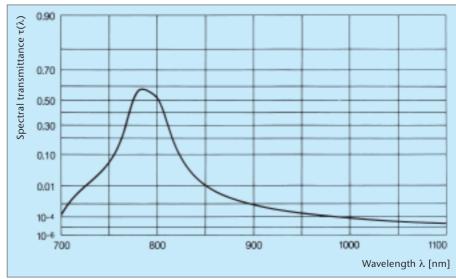


Fig. 20: Spectral transmittance curve (general curve) of filter type KMZ 50