

Yb:YAG Crystal

Main Specifications

Dimensions	Length	5 ~ 150 mm (± 0.5 mm)
	Diameter	2 ~ 20 mm (+0.00, -0.05 mm)
Yb Concentration		0.5 ~ 25 atm%
Orientation		[100] or [111] ($\pm 1^\circ$)
Distinction Ratio		≥ 28 dB
Wavefront Distortion		$\lambda/8$ per inch @ 1064 nm
Barrel Finish		Fine ground (400#)
End Surface Parallelism		$\leq 10''$
Perpendicularity		$\leq 5'$
End Surface Flatness		$\lambda/10$ @ 633 nm
End Surface Quality		10-5 [s-d] (MIL-PRF-13830B)
Chamfer		0.15 ± 0.05 mm @ 45°
Coating		AR (R<0.25% @ 1030 nm)
Single Pass Loss		$< 3 \times 10^{-3}$ cm ⁻¹

