

Cr4+: YAG CRYSTALS

Cr4+:YAG is an excellent crystal for passive Q switching of Nd:YAG, other Nd and Yb doped lasers, in the wavelength range from 800 nm to 1200 nm. Because of its chemical stability, durability, good thermal conductivity and high damage threshold (> 500 MW/cm²) and being easy to be operated, it can replace traditional LiF, Dye and color centers which are commonly used as passive Q-switching materials. Cr4+:YAG is also an useful lasing material, with output from 1350 nm to 1600 nm(tunable).



Specification

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Dopant Concentration	0.5 mol% ~ 3 mol%
Aperture	2 × 2 ~ 14 × 14mm
Length	0.1 ~ 12mm
Initial Transmission	10% ~ 99%
Coating	Antireflective
Angle Tolerance	$\Delta\theta < \pm 0.5^\circ$; $\Delta\phi < \pm 0.5^\circ$
Dimension Tolerance	[W ± 0.1mm] × [H ± 0.1mm] × [L + 0.2mm/-0.1mm]
Flatness	$\lambda/8$ @ 633nm
Scratch/Dig	10 / 5
Parallelism	Better than 20 arc seconds
Perpendicularity	5 arc minutes
Wavefront Distortion	Less than $\lambda/8$ @ 633nm
Clear Aperture	> 90% central area