

Cr⁴⁺:YAG is a passive Q-switch crystal which is widely used on Nd:YAG, Nd:Ce:YAG, Nd:YLF, Nd:YVO₄, Yb:YAG lasers at wavelength of 800nm - 1200nm. The Passive Q-switches or saturable absorbers can provide high power laser pulses without EO Q-switches.



Advantages

- High damage threshold
- More robust and stable than dyes or color center

Specification

Orientation	$\langle 100 \rangle \pm 5^\circ$ or $\langle 110 \rangle \pm 5^\circ$
Initial transmission	5%~97%@1064nm
Dimension	Rod $\varnothing 2.0$ - $\varnothing 12$ mm
	Slab: H x W 3*3-20*20mm Or on request
Parallelism	$\leq 20''$
Perpendicularity	$\leq 15'$
Flatness	$< \lambda/8$
Surface quality	20-10 (MIL-O-013830A)
Barrel finishing	Ground finish 400# Grit
Coating Reflectivity	AR/AR @1064nm R<0.25%
Damage threshold	≥ 5 J/cm ² 10ns 10Hz 1064nm

Standard size

Diameter(mm)	$\varnothing 6.0$	$\varnothing 8.0$	$\varnothing 9.5$	$\varnothing 10.0$
Initial transmission	5%~97%@1064nm			

*Other size are on request.