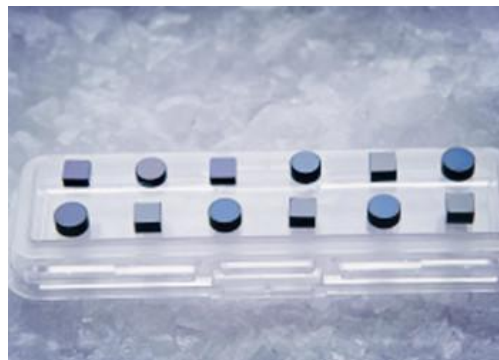


## Cr<sup>4+</sup>:YAG Crystals

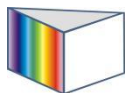
- Simple to use, no need of external driving system
- Compact setup
- Working frequency upto 10kHz

Chromium Doped Yttrium Aluminum Garnet (**Cr<sup>4+</sup>:YAG**) Crystal is excellent E-O material for passively Q-switching diode pumped or lamp-pumped Nd:YAG, Nd:YLF, Nd:YVO<sub>4</sub> and other Nd (or Yb) doped lasers at 0.8~1.2μm. With the advantages of chemically stable, durable, UV resistant, good thermal conductivity, high damage threshold (>500 MW/cm<sup>2</sup>) and easy operation, **Cr<sup>4+</sup>:YAG** is edging out traditional materials, such as LiF, organic Dye and color centers.



## SPECIFICATIONS

Specifications		
Dimensions range	Surface Area	2×2 mm <sup>2</sup> ~ 14×14mm <sup>2</sup>
	Length	0.1mm ~ 12mm
Doping Concentration	0.03mol% ~ 0.65mol%	
Initial Transmission	5% ~ 95%	
Flatness	< λ/10 @633nm	
Wavefront Distortion	< λ/6 @633nm	
Parallelism	< 30"	
Surface Quality	10/5 S/D (per MIL-O-13830A)	
AR coating	R<2% @ 1064nm or 1053nm	



<b>Physical and optical Properties</b>	
Chemical Formula	$\text{Cr}^{4+}:\text{Y}_3\text{A}_{15}\text{O}_{12}$
Crystal Structure	Cubic Garnet
Density	$4.56\text{g}/\text{cm}^3$
Hardness	8.5 Mohs
Damage Threshold	$> 500 \text{ MW}/\text{cm}^2$
Refractive Index	1.82 @ 1064 nm