



Laser Crystal Manufactuer in China

Offer Er:YAG Laser Crystal, Laser Crystal, NLO Crystal, Birefringent Crystal, Window Crystal To You.

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Video



Er:YAG Laser Crystal

Er:YAG

Er:YAG crystal is an excellent laser crystal which lasers at 2.94μm. This wavelength is the most readily absorbed into water and hydroxylapatite of all existing wavelengths and is considered a highly surface cutting laser. It is a well known material for medical applications.

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Diffusion Bonded Crystal

[Laser Crystal](#)

Nd:YAG Laser Crystal

Cr⁴⁺:YAG Laser Crystal

[Er:YAG Laser Crystal](#)

Nd:Ce:YAG Laser Crystal

Yb:YAG Laser Crystal

Nd:YLF Laser Crystal

Nd:YVO₄ Laser Crystal

Optical Windows

BK7 Standard Windows

BK7 High Precision Windows

Fused Silica Standard Windows

Fused Silica High Precision Windows

Coating Film

BK7 Plano-Convex Cylindrical Lens

Lens

BK7 Plano-Convex Lens

Fused Silica Plano-Convex Lens

BK7 Double Convex Lens

Fused Silica Double Convex Lens

BK7 Plano-Concave Lenses

Fused Silica Plano-Concave Lens

BK7 Double Concave Lenses

Fused Silica Double Concave Lens

Coating Film

BK7 Plano-Convex Cylindrical Lens

Optical Mirror

BK7 Standard Substrate

BK7 High Precision Substrate

Fused Silica Standard Substrate

Fused Silica High Precision Substrate

Beam Splitter Plate

Nd: YAG Laser Beam Combiner

Scanning Mirror

Coating Film

BK7 Plano-Convex Cylindrical Lens

Advantages:

1. High slope efficiency
2. Operate well at room temperature
3. Operate in a relatively eye-safe wavelength range

Specifications

Dopant concentration	20at% and 50 at%
Orientation	[100] within 5°
Wavefront Distortion	≤0.125 λ/inch(@1064nm)
Optical Quality	Interference fringes ≤ 0. 125 /inch Extinction ration Ø3~Ø6.35 ≥ 28db, Ø7~Ø10 ≥ 25dB
Size	Rods: Ø (3~10)mm×(30~180)mm (L) Slabs: (3~12)mm×(6~24)mm×(60~180)mm (L) Upon request of customer
Dimensional tolerances	Diameter: +0.00/-0.05mm Length: ±0.5mm, chamfer : <0.15±0.05mm@45°
Parallelism	≤10"
Perpendicularity	≤5'
Flatness	λ/10 @632.8nm
Surface Quality	10-5(MIL-O-13830A)
AR Coating Reflectivity	≤ 0.25% (@2940nm)
Damage threshold	≥ 500MW/cm ² 10ns 1Hz at 1064nm

Main Properties of Er:YAG crystal:

Crystal Structure	Cubic
Lattice Parameters	12.01 Å
Melting Point	1970°C
Moh Hardness	8.5
Density	4.56±0.04g/cm ³
Specific Heat (0-20)	0.59J/g.cm ³
Thermal Expansion Coefficient	[100]Direction:8.2×10 ⁻⁶ /°C(0~250°C)
Thermal Conductivity	14W/m/K(@20°C) 10.5W/m/K(@100°C)
Laser Transition	4I11/2 to 4I13/2
Laser Wavelength	2940nm
Emission Cross Section	3×10-20 cm ²
Index of Refraction	1.79 @2940nm

Feedback Form

NLO Crystal

- LBO Crystal
- BBO Crystal
- KTP Crystal
- KDP, KD*P Crystal
- LiNbO₃ / LN Crystal

Window Crystal

- YAG Crystal
- Sapphire Crystal
- CaF₂ Crystal
- MgF₂ Crystal
- BaF₂ Crystal
- LiF Crystal

Laser Rod Repolishing

Laser Safety Glasses

Optical Filter

- Medical IPL Filter
- Interference Filter

Light Pipe Homogenizing

Laser Beauty Supplies

- Laser Handle
- Laser Bonding Crystal



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Related Products



Nd:Ce:YAG Laser Crystal

Nd:Ce:YAG crystal is an excellent laser material used for no-water cooling and miniature laser systems. The (Nd, Ce): YAG laser rod we produce has the characteristics of high efficiency, low threshold, anti-violet radiation and high repetition frequency for lasers operation..