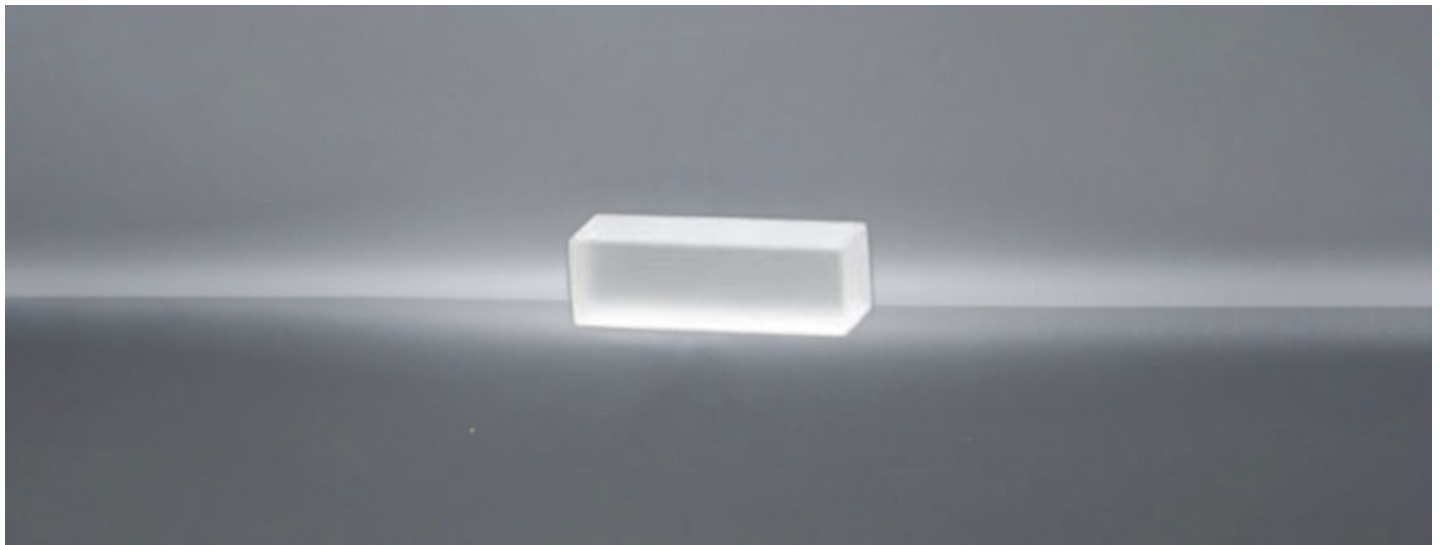


HGTR-KTP



DESCRIPTION

HGTR-KTP crystal, also known as Highly Gray Trace Resistant Potassium Oxide Phosphate crystal, is an electro-optical crystal with excellent overall performance. HGTR-KTP (Highly Gray Trace Resistant KTP) crystal has excellent performance of nonlinear optical properties, a wide range of allowable temperature matching and allowable angle matching, high threshold of gray trace resistance and light damage resistance, stable chemical and mechanical properties, etc. HGTR-KTP is mainly used for neodymium The HGTR-KTP is mainly used to generate green light by doubling the frequency of the laser and to integrate the optical waveguide of NLO and EO devices. It can also be used for laser frequency doubling, sum-frequency, differential frequency, parametric oscillation, optical waveguide devices, electro-optical modulators, electro-optical switches, pulse pickup, and other related fields, and has a wide range of applications in military research, medical, marine optics, laser weapons, and environmental remote sensing monitoring.

FEATURES

- High thermal conductivity
- Wide temperature bandwidth
- More efficient than regular KTP
- Low absorption at 1064nm and 532nm
- High quality crystals at competitive prices
- Chemical and mechanical stability
- Higher resistance to gray stains than ordinary KTP

APPLICATIONS

- Electric light switch
- Electro-optical modulator
- Optical waveguides for integrated NLO and EO High
- average power of SHG and green output in CW

CRYSTAL SPECIFICATION

Materials	HGTR-KTP
Aperture range	From 2×2mm to 10×10mm
Coating	Augmented reality/augmented reality; R<0.2%@1064nm
Damage Threshold	>600MW/cm ² @1064nm,10ns
Extinction ratio	>20dB
Light Propagation	>98.5%
Wavefront distortion	<λ/8 @1064nm



HGTR-KTP

CRYSTAL CHARACTERISTICS

Materials	HGTR-KTP
Dimensional Tolerance	(W \pm 0.1mm) \times (H \pm 0.1mm) \times (L+0.5/-0.1mm)
Size range	Hole diameter: \sim 10 \times 10mm; Length: \sim 15mm
Clear Aperture	Central area > 90%
Crystal scattering	No visible scattering path or center when examined with 50mW green laser
Flatness	< λ /8 @633nm
Transmission wavefront distortion	< λ /8 @633nm
Chamfering	\leq 0.2mm @45 $^\circ$
Surface quality	10/5 S/D
Parallelism	\leq 20 arc seconds
Perpendicularity	\leq 5 arc minutes
Angular Tolerance	\leq 0.25 $^\circ$
Coating	AR/AR@1064nm Both end faces

SPECTRA

