

HOME

ABOUT US

PRODUCTS

NEWS

CONTACT US

Search



CRYSTALS

CRYSTALS

Laser crystals

NLO Crystals

Passive Q-switch

Birefringent Crystals

Magneto-optical Crystals

Windows

OPTICS

Telecom Optics

Instrumental Optics

COATING SERVICE

PROCESSING SERVICE

KTP Crystal

PRODUCTS

KTP crystals is the most commonly used material for frequency doubling of Nd-doped lasers, particularly at the low or medium power density. It is widely used for frequency mixing to generate Red/Green/Blue output, and for OPO and OPA to generate visible to mid-infrared tunable output. It is also used for many E-O devices such as Q-switches and E-O modulators.

(Potassium Titanyl Phosphate)

NLO Crystals

Advantages:

- · Large nonlinear optical coefficient
- Wide angular bandwidth and small walk-off angle
- Broad temperature and spectral bandwidth

HOME

Location:

- High Electro-Optics(E-O) coefficient and low dielectric constant
- Non-hygroscopic, chemically and mechanically stable

KTP's Applications

- Frequency Doubling (SHG) of Nd-doped Lasers for Green/Red Output
- Frequency Mixing (SFM) of Nd Laser and Diode Laser for Blue Output
- Parametric Sources (OPG, OPA and OPO) for 600nm 4500nm Tunable Ouptut
- E-O Modulators, Optical Switches, Directional Couplers
- Optical Waveguides for Integrated NLO and E-O Devices

HGO offer KTP specification:

Tolerance of cutting angle	△θ≤±0.25°,△φ≤±0.25°
Tolerance of dimension	Dimension+/-0.1 mm, L: ±0.1mm
Flatness	λ/8 @ 632.8nm
Wavefront distortion	λ/8@ 632.8nm
Surface quality	10/5 per MIL-O-13830A
Parallelism	10"
Perpendicularity	5′
Bevel/chamfer	<0.1mm@45deg.
Chips	<0.1mm
CA	>95%
Coating	AR/HR coating Upon customer's request
Damage Threshold	750MW/CM ² at 1064nm, TEM00, 10ns,
	10Hz
Warranty	One year under proper use

