



DeLn Optics

Optical Material

Optical Coating

Optical Components

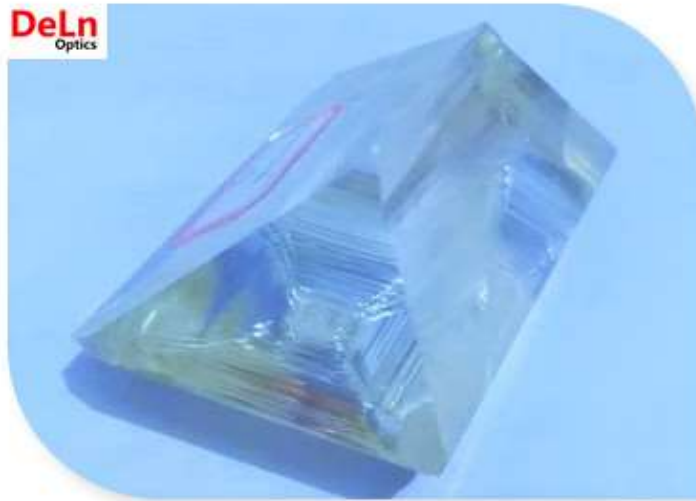
Waveplates

Crystals

Micro Optics

Stock

HOME CRYSTALS NONLINEAR CRYSTALS



Online Inquiry

Contact:

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Company:

Subject:

KTP

Tel:

E-mail:

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Content:

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Code:

*(marked *should be filled)

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KTP

KTP crystals is the most commonly used material for frequency doubling of Nd-doped lasers.

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.

KTP is widely used in both commercial and military lasers including laboratory and medical systems, range-finders, lidar, optical communication and industrial systems.

Advantages

Large nonlinear optical coefficient

Wide angular bandwidth and small walk-off angle

Broad temperature and spectral bandwidth

High Electro-Optics(E-O) coefficient and low dielectric constant

Non-hygrosopic, chemically and mechanically stable

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 Oupput

E-O Modulators, Optical Switches, Directional Couplers

Optical Waveguides for Integrated NLO and E-O Devices

Specifications

Dimension Tolerance	$\pm 0.1\text{mm}$
Angle Tolerance	$\Delta\theta < 0.5^\circ$, $\Delta\Phi < 0.5^\circ$
Surface Flatness	$< \lambda/8 @ 633\text{nm}$
Wavefront Distortion	$< \lambda/6 @ 633\text{nm}$
Parallelism	< 20 arc seconds
Perpendicularity	< 5 arc minutes
Surface Quality	10/5 Scratch and Dig
Clear Aperture	$> 95\%$
Coating	AR/HR coating Upon customer's request

INFORMATION

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WARRANTY

All products are guaranteed to be in specifications in material and workmanship for a period of 12 months after shipment.

We do not assume liability for installation, labor or consequential damages.

This warranty is not suitable for failure of the products due to misuse, abuse, accident, or neglect.

CONTACTS

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