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High Damage Threshold KTP/KTA Single Crystal

Potassium Titanyl Phosphate Single Crystal, known as KTP (KTiOPO_4), is the most efficient frequency doubling crystal for Nd:YAG/Nd:YVO4 laser systems. KTP is the best non-linear optical crystal for 1064nm pumped OPOs.

Our KTP Crystal Features:

- High damage threshold, low absorption
- Devices as large as 15x15x20mm are available
- Massive production to support industrial customers
- AR-Coating, mounting and re-polishing service
- Competitive Price and Huge OEM Discount
- Free Technical Support



KTP Crystal Grown in United Crystals



KTP SHG1064nm devices

Our Standard Specifications for KTP Devices:

- Dimension tolerance: $(W \pm 0.1 \text{ mm}) \times (H \pm 0.1 \text{ mm}) \times (L + 0.2 \text{ mm}/-0.1 \text{ mm})$
- Transmitting wavefront distortion: less than $\lambda/4$ @ 633nm
- Clear aperture: > 90% central area
- Flatness: $\lambda/8$ @ 633nm
- Surface Quality: 10/5 to MIL-O-13830A
- Parallelism: better than 20 arc seconds
- Perpendicularity: 5 arc minutes
- Angle tolerance(degree): $D(\theta) < \pm 0.5$, $D(\phi) < \pm 0.5$
- AR coating: $R < 0.2\%$ at 1064nm and $R < 1.0\%$ at 532nm

[View KTP Crystal Properties and Applications](#)

[Click here to get a quote via e-mail](#)



[E-mail this link to a friend](#)

We have the following items in stock, which are ready for shipping immediately.

Description	Quantity
High Damage Threshold KTP, Type II, SHG1064nm, 3x3x5mm, with AR-coating at 1064nm+532nm	10
High Damage Threshold KTP, Type II, SHG1064nm, 3x3x5mm, with AR-coating at 1064nm+532nm (rotated 45 degrees)	2
High Damage Threshold KTP, Type II, SHG1950~2020nm, 5x5x10mm, with AR-coating at 1um + 2um	1
High Damage Threshold KTP, Z-cut, 5x5x5mm, polishing only, no coating	2
High Damage Threshold KTP, Type II, SHG1342nm, 3x3x2mm, AR-coating at 1342+671nm	2

High Damage Threshold KTP, theta=45.0, phi=0 degree, 4x4x4mm, polishing only, no coating	1
High Damage Threshold KTP, theta=63.0, phi=0 degree, 4x4x2.3mm, polishing only, no coating	1

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