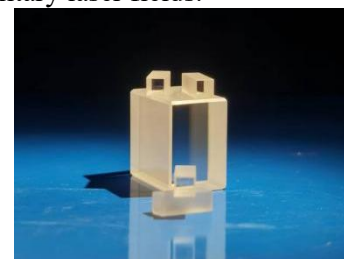


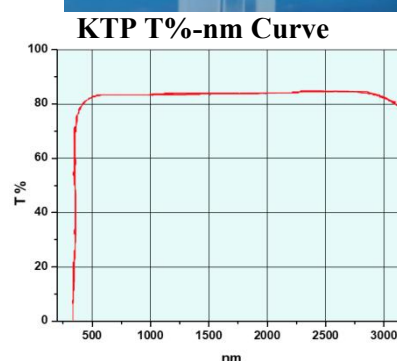
KTP Crystal

KTiOPO₄ (KTP) is a superior NLO crystal, which can be used in the visible to the mid-infrared band. The characteristics of KTP are large nonlinear coefficient, large receiving angle, small walk-away angle, etc. KTP can be used widely in various lab systems, medical fields, detectors, lidar, optical communications, and industrial laser systems. Furthermore, it also can be used in commercial and military laser fields.



Main features:

- Large NLO coefficients
- Angle bandwidth, walk away angle is small
- Wide temperature and spectral bandwidth
- High photoelectric coefficient, low dielectric constant
- High conversion efficiency
- High thermal conductivity
- Good chemical, physical and mechanical properties



Typical applications:

- Frequency multiplication and mixing of Nd-doped lasers
- Optical waveguide applications
- EO modulators, optical switches, couplers
- OPA & OPO

Standard Products

Model	Size (mm)	θ (°)	Φ (°)	Coating
KTP 501	3 × 3 × 5	90	23.5	AR/AR @ 1064+532 nm
KTP 502	3 × 3 × 10	90	23.5	AR/AR @ 1064+532 nm
KTP 503	4 × 4 × 6	90	23.5	AR/AR @ 1064+532 nm
KTP 504	7 × 7 × 9	90	23.5	AR/AR @ 1064+532 nm

For more information about products click on: www.voyawave.com

Technical Parameters

Names of Parameters	Values & Ranges
Size tolerance	±0.1 mm
Dimension tolerance	10/5
Clear aperture	> 90%
Surface quality	< $\lambda/8$ @ 633 nm
Flatness	< $\lambda/4$ @ 633 nm
Wavefront distortion	< 20 arc sec
Parallelism	< 5 arc min
Perpendicularity	AR
Coating	1 year (under normal use)

See appendix P31 for more information