Online Inquiry

Contact:  

Company:  

Subject: KTP  

Tel:  

E-mail: (*)  

Content:  

Code: 5801  

*(marked *should be filled)

Submit
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-hygroscopic, 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 Ouptut
- E-O Modulators, Optical Switches, Directional Couplers
- Optical Waveguides for Integrated NLO and E-O Devices

**Specifications**

<table>
<thead>
<tr>
<th>Dimension Tolerance</th>
<th>±0.1mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Angle Tolerance</td>
<td>Δθ&lt;0.5°, ΔΦ&lt;0.5°</td>
</tr>
<tr>
<td>Surface Flatness</td>
<td>&lt;λ/8@633nm</td>
</tr>
<tr>
<td>Wavefront Distortion</td>
<td>&lt;λ/6@633nm</td>
</tr>
<tr>
<td>Parallellism</td>
<td>&lt;20 arc seconds</td>
</tr>
<tr>
<td>Perpendicularity</td>
<td>&lt;5 arc minutes</td>
</tr>
<tr>
<td>Surface Quality</td>
<td>10/5 Scratch and Dig</td>
</tr>
<tr>
<td>Clear Aperture</td>
<td>&gt;95%</td>
</tr>
<tr>
<td>Coating</td>
<td>AR/HR coating Upon customer’s request</td>
</tr>
</tbody>
</table>
INFORMATION

ABOUT US
TERMS OF CUSTOM PARTS
CONTACT US

PRODUCT LINE

OPTICAL MATERIAL
OPTICAL COATING
OPTICAL COMPONENTS
WAVEPLATES
CRYSTALS
MICRO OPTICS
STOCK

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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