

Features

- Fundamental range : 1-1.3 μm
- OPO range : 1.53-3 μm (only KTP)
- Large non-linear coefficient
($\sim 3\text{pm/V}$ at 1064/532nm)
- Small walk-off

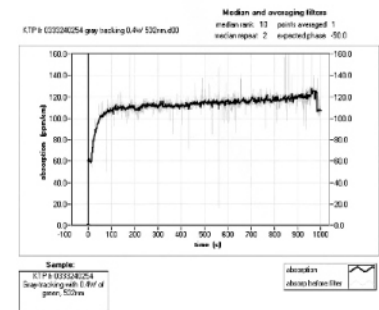
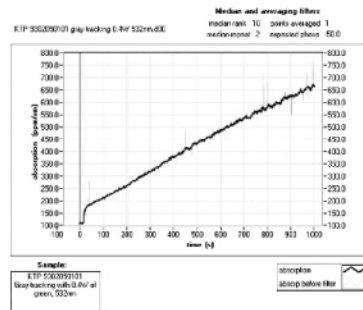
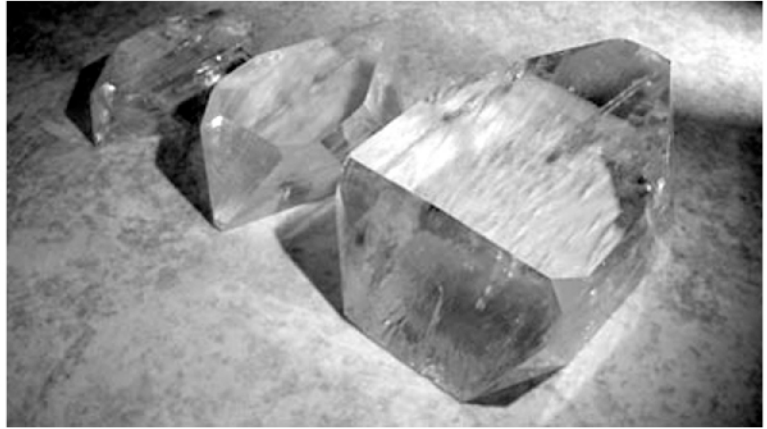
Applications

KTP

- Low-power CW scientific lasers
- Surgical lasers (ophthalmology, dermatology)
- Ti:Sapphire laser pumping
- ZGP OPO pumping
- Eye-safe instruments

KTP.fr (full Resistance)

- Mid-power CW lasers
(up to a few watts at 532nm)
- High rep.rate, high average power lasers
for material processing or surgery
(average power up to 100W at 532nm)



Specifications

Aperture cut	tolerance +/-0.1mm
Length	tolerance +0.3/-0.2mm
Parallelism	30 arcsec
perpendicularity	30 arcmin
Flatness ($\lambda=633\text{ nm}$)	better than $\lambda/6$
Orientation	+/-0.5 deg.
Roughness	better than 10 A RMS
Scratch/dig	10-5

Thin film coatings

Technologies available	PVD, IRD, IBS
Damage threshold	500 MW/cm ² AR-coated, at 10 Hz, 10 ns.
AR coatings	better than 0.1% (0.05% on request) at 1064nm, 0.25% at 532nm

Physical Properties

Crystal	KTP	KTP.fr
Ionic conductivity (room temperature, 10kHz)	10 ⁻⁶ S.cm ⁻¹	8.10 ⁻⁸ S.cm ⁻¹
Aperture	up to 18 x 18 mm ²	up to 8 x 8 mm ²
Length	up to 35 mm	up to 7 mm