

**RAICOL**  
**CRYSTALS**  
An **OXIDE** company



# KTP

## KTP (Potassium Titanyl Phosphate, $\text{KTiOPO}_4$ )

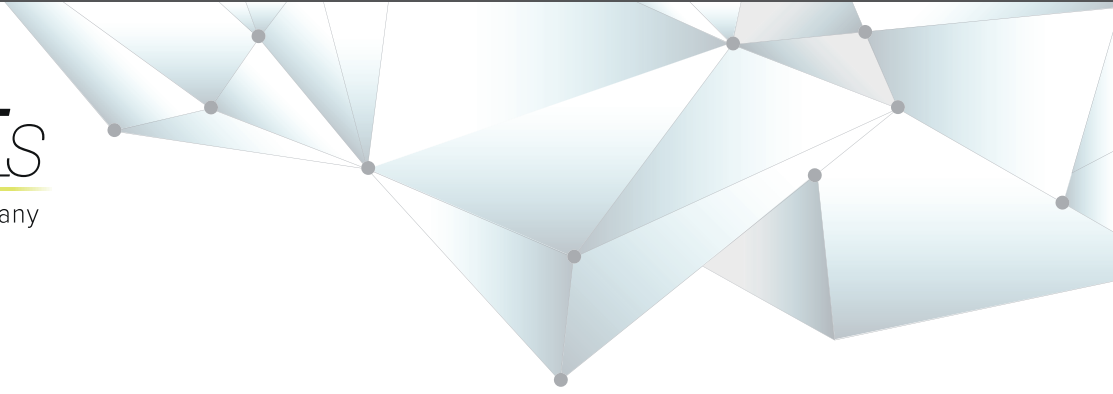
KTP is a nonlinear optical material that is widely used for doubling solid-state lasers, such as Nd:YAG. KTP's nonlinear coefficients make it the leading material for SHG in the optic industry.

KTP is recognized for highly efficient OPO, SHG & Quantum applications.

Raicol offers dedicated crystals for different applications offering highly efficient KTP and relatively high LIDT.

### Advantages

- Very high SHG coefficient: approximately three times higher than KDP
- High Laser damage threshold
- Highly environmentally stable- non hygroscopic, thermal, chemical and mechanical stable
- Large aperture up to 50x50 mm
- Variety of efficient applications- SHG, OPO, OPA, PPKTP



## Typical Specifications for KTP

Aperture	Up to 50x50
Length	Up to 40 mm
Flatness	$\lambda/4$ @633nm
Perpendicularity	<10 arc min.
Laser Induced Damage Threshold (LIDT)	1 GW/ cm <sup>2</sup> @1064 nm, for 10 ns pulses 10 pps
Parallelism	20 arc sec.
AR Coating	DBAR
Scratch/Dig	10/5
Wave from distortion	$\lambda/4$ @633nm
Absorption Coefficient	<20 ppm/cm @1064nm <50 ppm/cm @532nm

**Raicol Crystals, founded in 1995, is a global leader in nonlinear crystals growth, fabrication, and assembly. Raicol offers a unique set of benefits to its customers:**

- 50 years of experience in crystal growth
- Global pioneers of RTP, HGTR KTP and PPKTP
- A one-stop-shop, from crystal growth to coating and EO cell assembly
- Mass production and small R&D volume capabilities
- Fast delivery times
- Unmatched crystal quality