



KTP Potassium Titanyle Phosphate - KTiOPO,

MAIN FEATURES

- Small walk-off angle in the XY plane
- High non-linear optical efficiency
- Broad temperature acceptance

APPLICATIONS

- Mid-high average power eye-safe lasers
- Pulsed or CW green medical lasers
- OPO systems for detection or space applications

WHAT MAKES US DIFFERENT?

- Available in a grey-track resisting version: KTP.fr ™
- Each part is tested for optical and non-linear homogeneity on a standardized laser bench
- Low bulk absorption: <100ppm/cm at 1064nm
- High damage threshold of bulk and coatings
- Available in cross-section up to 20x20mm² and up to 35mm in length
- Large manufacturing capacity of OPO crystals

TECHNICAL HIGHLIGHTS



Green-Induced Absorption scan at 1064nm of KTP.fr™ crystal:

material doesn't develop grey-track under 532nm-illumination.

TECHNICAL HIGHLIGHTS

OPO efficiency test report, based on our standardized laser bench:

efficiency variation stays within less than 10% from mean value.



goure le	LASER DAMAGE	E CERTIFICATION		
	F	PASS		
632.5 MW/cm ² or 11.3 J/cm ²				Laser-induced Damage
Customer: Purchase Orc	Quantel USA der No: N/A	Certificate No.: Issued:	180011E #1 10/11/2018	threshold certification :
Substrate Ma Part No:	terial: KTP 91720003	Coating Type: Run Number: Tested On:	AR 404580001 Arrow Side	Pass > 10J/cm², 1064nm
Special Requ	irements: Per BSLT-172			
Wavelength (Rep. Freq. (H Pulse Width (Axial Modes: No. Sites:	nm): 1064 z): 20 (ns): 16.0 Multiple 1	Spot Diam. (mm): Incidence Ang. (deg.) Polarization State: Transverse Modes: No. Shots/Site:	0.371 Normal Linear TEMoo >10,000	

SPECIFICATIONS

Aperture	Up to 25x25mm ²	
Length	Up to 35mm	
Flatness	< λ /10 @633nm	
Wavefront distortion	< λ /8 @633nm	
Parallelism	Down to 5"	
Perpendicularity	Down to 5 arc min.	
Scratch and dig	<2/1	
Bulk absorption	<100 ppm/cm@1064nm	
Damage threshold	>10J/cm ² @1064nm, 10ns 10Hz	

Ordering Information:



800 Village Walk #316 Guilford, CT 06437 Ph: 203-401-8093

Email orders to: <u>sales@xsoptix.com</u> Fax orders to: 800-878-7282

