



RTP MATCHED SET OF CRYSTALS Rubidium Titanyle Phosphate - RTiOPO₄

MAIN FEATURES

- Non hygroscopic
- Large electro-optic coefficient
- Excellent extinction ratio
- No piezo- or pyroelectric effects

APPLICATIONS

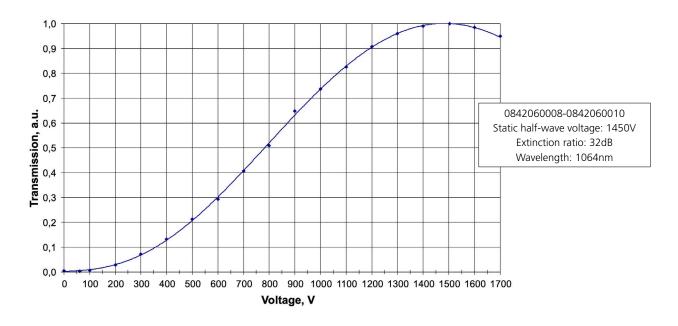
- Pulse-picking in ultrafast laser systems
- Q-switched lasers for space and defence

WHAT MAKES US DIFFERENT?

- Available in cross-sections up to 15x15mm². Custom lengths on request
- Extinction ratio: standard 25dB or better, on request 30dB or better
- No long-term degradation under static HV
- Very precise orientation of optical axes for an easy alignment
- High damage threshold of AR-coatings: >10J/cm² at 1064nm for 10ns pulses
- Deposited gold electrodes on Z-sides on request

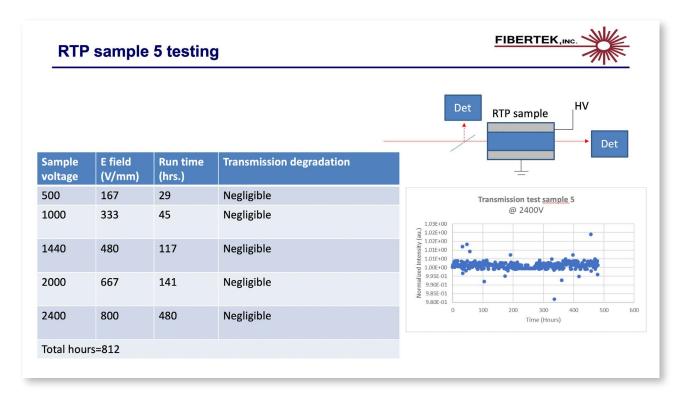
TECHNICAL HIGHLIGHTS

Transfer function and ER measured at 1064nm of a matched set of RTP crystals: transmission at 0V after a crossed polarizer is close to minimum and ER is better than 30dB

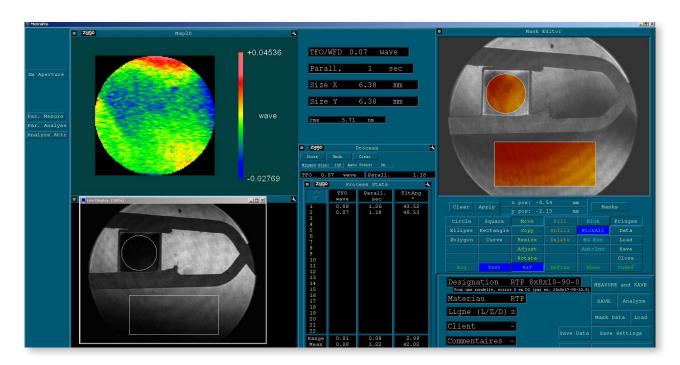


TECHNICAL HIGHLIGHTS

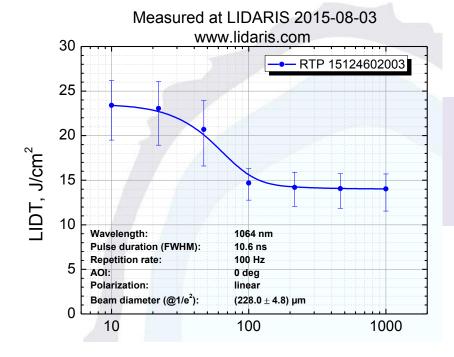
Stability of Cristal Laser's RTP under static voltage- courtesy of Fibertek, USA: no degradation under 8kV/cm over 500 hours



Wavefront transmission of single RTP crystals (λ = 633nm): λ /14 measured within an 80% circular test area. Crystal dimensions: 8x8x10



TECHNICAL HIGHLIGHTS

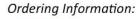


Typical laser damage curve of AR-coated RTP substrates:

threshold > 10J/cm² at 1064nm, S on 1

SPECIFICATIONS

Aperture	Up to 15x15mm ²
Standard lengths	5, 7, 10 and 12,5mm. Other lengths on request.
Flatness	< λ /10 @633nm
Wavefront distortion	<\lambda/8 @ 633nm for each crystal
Parallelism	Down to 5"
Perpendicularity	Down to 5 arc min.
Orientation of X- and Z-axes	Better than 0.1°
Bulk absorption	<100 ppm/cm@1064nm
Scratch and dig	<2/1





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