



RTP PHASE MODULATORS

Rubidium Titanylo Phosphate - RTiOPO_4

MAIN FEATURES

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

APPLICATIONS

- Phase-modulation
- Single-frequency lasers
- Amplitude modulation

WHAT MAKES US DIFFERENT?

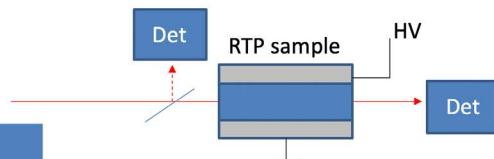
- No long-term degradation under HV
- Very precise orientation of optical axes
- Deposited gold electrodes on Z-sides on request
- Available in cross-sections up to $15 \times 15 \text{ mm}^2$
- Available length up to 40mm

TECHNICAL HIGHLIGHTS

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

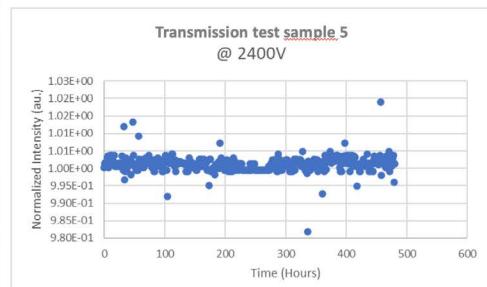
RTP sample 5 testing

FIBERTEK, INC.

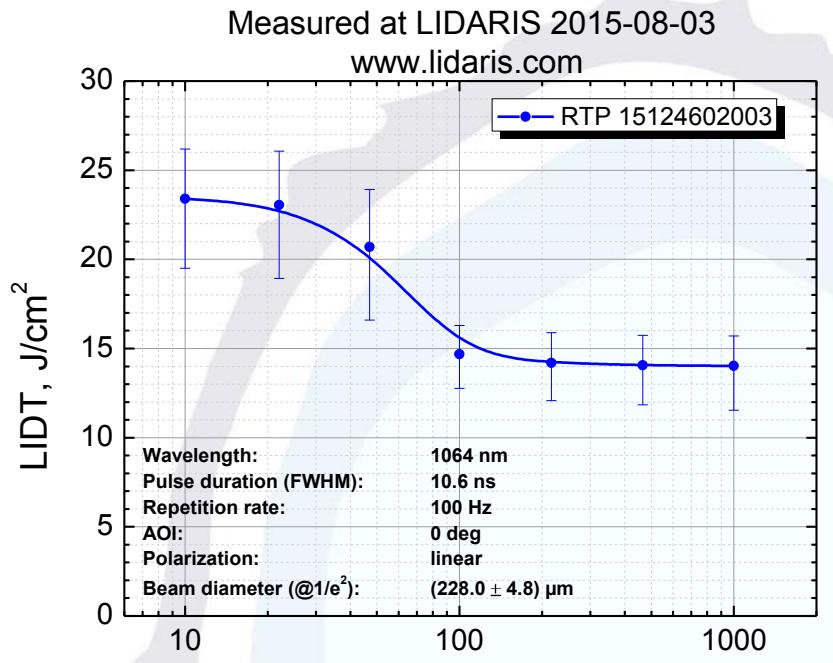


Sample voltage	E field (V/mm)	Run time (hrs.)	Transmission degradation
500	167	29	Negligible
1000	333	45	Negligible
1440	480	117	Negligible
2000	667	141	Negligible
2400	800	480	Negligible

Total hours=812



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
Flatness	< $\lambda/10$ @633nm
Wavefront distortion	< $\lambda/4$ @ 633nm for a 20mm-long 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
Damage threshold	> 10J/cm ² @ 1064nm, 10ns, 10Hz

Ordering Information:



Email orders to: sales@xsoptix.com
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