



RTP ELECTRO-OPTIC ASSEMBLIES Rubidium Titanyle Phosphate - RTiOPO₄

MAIN FEATURES

• Non hygroscopic

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

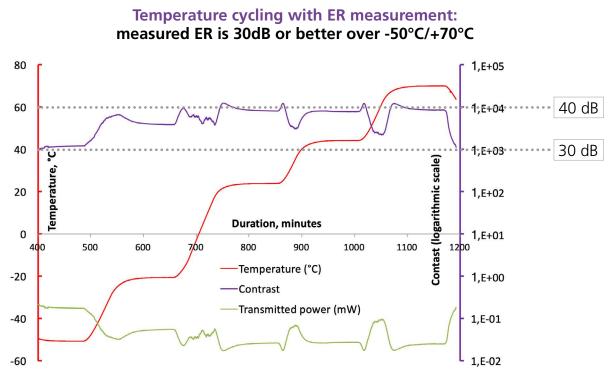
APPLICATIONS

- Pulse-picking
- Q-switched industrial lasers
- Optical switch of regenerative amplifiers
- Q-switched lasers for space and defence

WHAT MAKES US DIFFERENT?

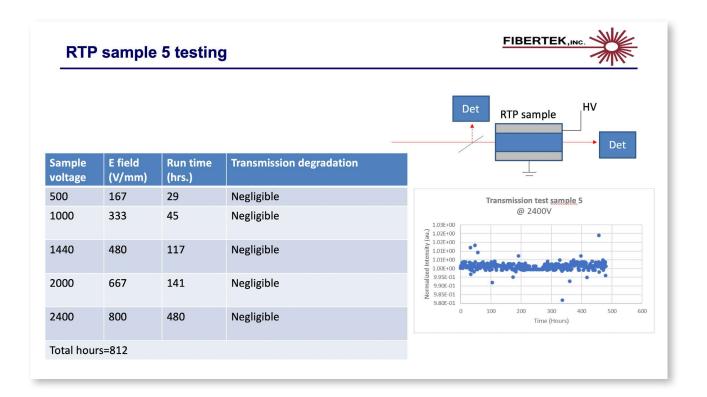
- Available in cross-sections up to 15x15mm². Custom lengths on request
- Excellent extinction ratio : >30dB measured over a -50°C/+70°C temperature range
- No long-term degradation under static HV
- High damage threshold of AR-coatings: >10J/cm² at 1064nm for 10ns pulses
- Space-qualified assembly process and hardware (Aeolus, Curiosity, Perseverance)

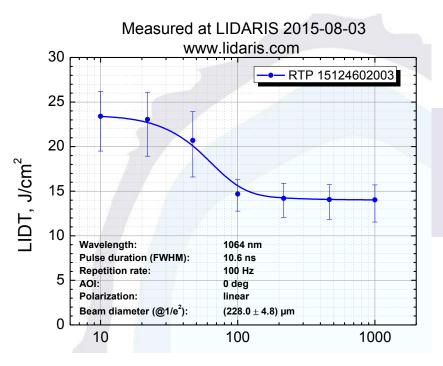
TECHNICAL HIGHLIGHTS



TECHNICAL HIGHLIGHTS

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





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



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

Email orders to: sales@xsoptix.com Fax orders to: 800-878-7282

