Cristal Laser

RTP

Rubidium Titanyle Phosphate - $RTiOPO_4$

MAIN FEATURES

- High damage threshold
- No «grey-track»
- Large angular acceptance In the XY plane

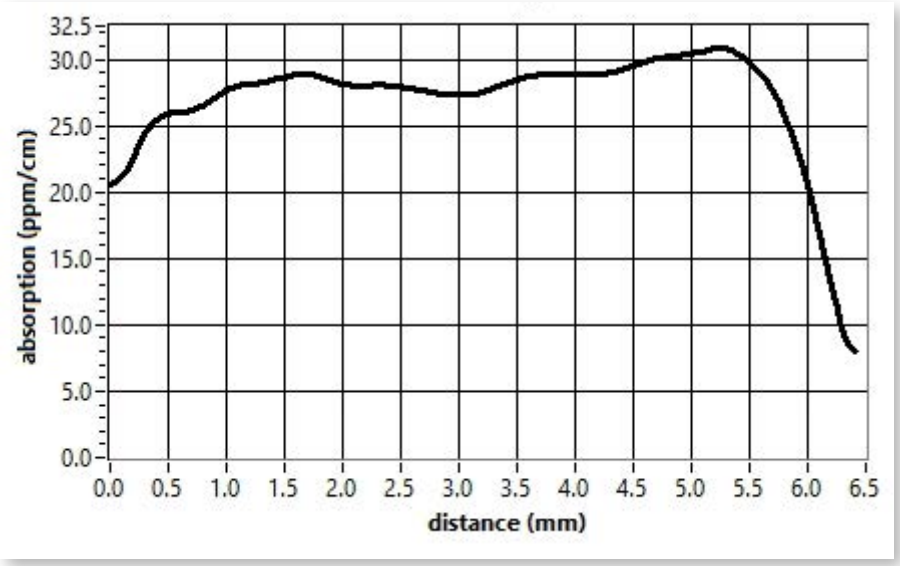
APPLICATIONS

- Green / yellow CW lasers
- OPO signal around 1.6µm when pumped at 1.06µm and non-critically phase-matched (X-cut).

WHAT MAKES US DIFFERENT?

- Low bulk absorption: <100ppm/cm at 1064nm
- Coating damage threshold >10J/cm²@1064nm, 10ns (>1GW/cm²)
- High bulk material homogeneity

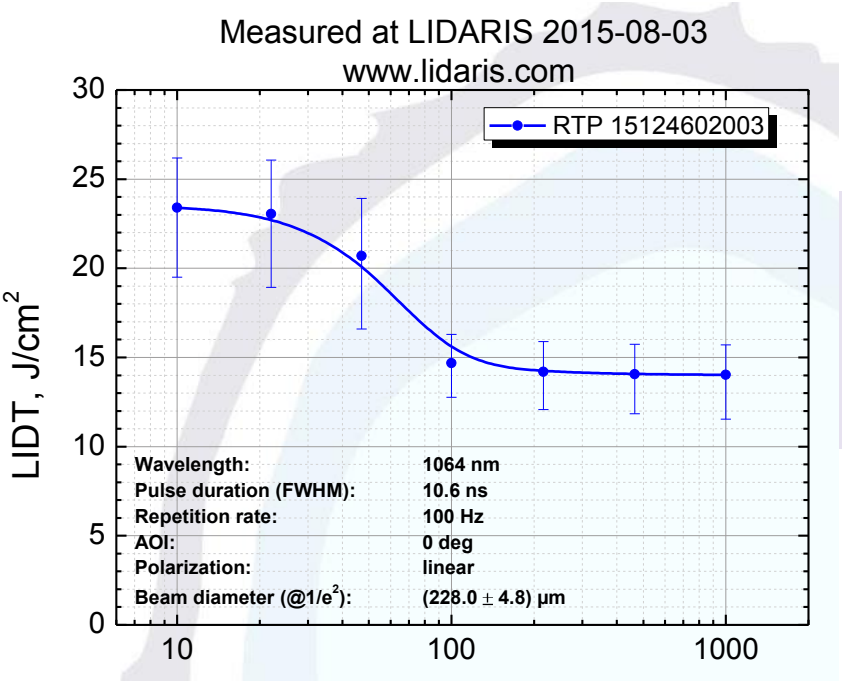
TECHNICAL HIGHLIGHTS



Bulk absorption measurement at 1.07µm:

typical value is 30ppm/cm

TECHNICAL HIGHLIGHTS



Typical laser damage curve of AR-coated RTP substrates:

threshold > 10J/cm² at 1064nm, S on 1

SPECIFICATIONS

Aperture	Up to 15x15mm²
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/cm²@1064nm, 10ns 10Hz