



**KTA** Potassium Titanyle Arsenate -KTiOAsO,

## **MAIN FEATURES**

- Transparent between 0.5µm and 3.5µm
- High non-linear optical efficiency
- Broad temperature acceptance

# **APPLICATIONS**

- Mid-high average power eye-safe lasers
- High average power OPA in the mid-IR for high order harmonics
- Spectroscopy and gas detection

## WHAT MAKES US DIFFERENT?

- Excellent optical and non-linear optical homogeneity
- Low absorption of AR-coatings in the 3µm range
- High damage threshold of bulk and coatings
- Available in cross-section up to 20x20mm<sup>2</sup> and up to 20mm in length



# **TECHNICAL HIGHLIGHTS**

# Transmission curve between 2µm and 5µm:

Uncoated KTA crystal of 5x5x17mm (X-cut) - Cristal Laser

#### no transmission losses between 3.0µm and 3.5µm

### **TECHNICAL HIGHLIGHTS**

Transmission of our low absorption AR-coating on KTA parts: R<5% over  $1.0 \mu m\text{-}4.0 \mu m$ 



# **SPECIFICATIONS**

Aperture	Up to 15x15mm <sup>2</sup>
Length	Up to 20mm
Flatness	< <b>λ</b> /10 @633nm
Wavefront distortion	< <b>λ</b> /8 @633nm
Parallelism	Down to 5"
Roughness	10Å RMS or better
Scratch and dig	<2/1
Bulk absorption	<200 ppm/cm@1064nm
Damage threshold	>10J/cm <sup>2</sup> @1064nm, 10ns 10Hz

