

上海奥普特科晶体材料有限公司

Shanghai Opticrystal Materials Co., Ltd

RTP Rubidium Titanium Oxide Phosphate:

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RTP Rubidium Titanium oxide Phosphate crystal is an excellent nonlinear optical crystal, an isomer of potassium titanium phosphate (KTP), with a large nonlinear optical coefficient, and a wide range of near-mid-infrared light transmittance. Due to its excellent characteristics such as high resistivity, low piezoelectric effect, high laser damage resistance threshold and non-easy tidal solution, it is widely used in photoelectric technology fields such as electro-optical modulation and laser Q switching.



Using $1.0~\mu$ M-band laser pumped non critical phase matching cut RTP nonlinear crystals and their isomorphs can achieve efficient 1.5- $1.6~\mu m$ band eye safe laser, has important applications in the field of nonlinear optical frequency conversion.

Main features:

Non deliquescence

Small size

high resistivity

High extinction ratio

No piezoelectric effect

Wide transparency range

High damage threshold

high temperature stability

Low half wave voltage

Suitable for high-frequency operation

Stable mechanical and chemical properties

Large nonlinear optical and electro-optical coefficients

Product Parameter:

Direction of growth	Along the Y axis
Maximum length (5x5mm ap	25mm
Length tolerances (mm)	+0.5/-0.1
Width and height Tolerances	±0.1
Parallelism	< 30"
Verticality	<15'
Finish	20/10
Coating film	reflection reducing coating

Product introduction------nonlinear crystals

Material Properties:

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Crystal structure	rhombic system
Cell parameters	a = 12.96 Å . b =10.56 Å . c =6.49 Å
Mohs hardness	About 5
Density (g/cm3)	3.6
Melting point	About 1000°C
Coefficient of thermal expansion (/ K)	$\alpha x=1.01x10-5$, $\alpha y=1.37x10-5$ $\alpha z=-4.17x10-6$
Sellmeier Equation (λ in μm)	$\begin{array}{llllllllllllllllllllllllllllllllllll$
Thermal-light coefficient (d λ / dT)	-0.029 nm /°C
Electro-optical constant (Y-cut) (X correspond to)	r33=38.5 pm/V r33=35 pm/V, r23=12.5 pm/V, r13=10.6 pm/V
Resistivity	About 1011-1012ohm·cm
1064 nm static half-wavelength operating volta	4x4x20 mm: 1,600 V 6x6x20 mm: 2,400 V 9x9x20 mm: 3.600 V
Extinction ratio	> 20dB@633nm

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