

磷酸钛氧钾在商业和军用激光里被广泛使用,包括实验室和医学系统,射程探测器,激光雷达,光通信和工业激光系统。 KTP最常用于倍频Nd:YAG及其他掺Nd晶体的激光,特别是在中低功率密度的激光器中。到目前为止,利用KTP进行腔内与腔外倍频的掺Nd晶体的激光器,在逐步取代可见光染料激光和可调蓝宝石激光器。在许多的工业研究中,该种激光器被广泛用做绿光光源。

Potassium titanyl phosphate is widely used in commercial and military lasers, including laboratory and medical systems,range detectors,lidars, optical communications and industrial laser systems.KTP is most commonly used for frequency-doubled Nd:YAG and other Nd-doped lasers, especially in low to medium power lasers. So far, the use of KTP for intracavity and extra cavity frequency doubling of Nd-doped lasers has gradually replaced visible-light dye lasers and tunable sapphire lasers. In many industrial studies, this type of laser is widely used as a green—light source.

主要特点 Features

● 非线性光学系数大

Large nonlinear optical coefficient

● 接收角大,走离角小

Wide angular bandwidth and small walk-off angle

● 宽的温度和光谱带宽

Broad temperature and spectral bandwidth

● 光电系数高和介电常数低

High electro-optic coefficient and low dielectric constant

● 抗阻比值大

Large figure of merit

● 不吸水,化学,机械性能稳定

No hydroscopic, chemically and mechanically stable

● 高导热性

High thermal conductivity

应用领域 Applications

● 晶体尺寸最大 20*20*40mm

Crystal size up to 20x20x40mm

● 单波段和双波段 AR 和 BBAR 镀膜

Single band and dual band AR and BBAR coatings

● 标准和定制外壳的安装

Standard and customized mounts and housings



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性能参数:

Flatness	λ/8 at 633nm
Parallelism	≤20 arcsec
Wavefront Distortion	λ/8 at 633nm
Surface Quality	20-10
Perpendicularity	≤5 arcmin
Angle tolerance	∆8,∆φ≤±0.25°
Dimension tolerance	±0.1mm
ClearAperture	90% of central area
Chamfer	≤0.2mmx45°
Chip	≤0.1mm
Damage Threshold	0.5GW/cm21064nmTEM0010ns 10HzforAR-coated 0.3GW/cm2532nm TEM0O 10ns 10HzforAR-coated

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