

KDP/KD*P(DKDP)

磷酸二氢钾(KDP), 磷酸二氘钾(DKDP), 被广泛地应用在多种工业用途。这两种晶体通常被用于做Nd:YAG激光器的二、三、四倍频器件(室温条件下)。此外,它们也是优良的电光晶体,具有很高的电光系数,广泛应用于电光调制器、Q开关、普克尔斯盒等。

Potassium Dihydrogen Phosphate(KDP)and Potassium Deuterium

Phosphate(KD*P)are among the most widely-used commercial NLO materials.They are commonly used for doubling,tripling and quadrupling of Nd:YAG laser at the room temperature. In addition, they are also excellent electro-optic crystals with high electro-optic coefficients, widely used as electro- optical modulators, Q-switches, and Pockels Cells,etc.

主要特点 Features

- 优越的紫外透过

Good UVtransmission

- 高损伤阈值

High optical damage threshold

- 双折射系数高

High birefringence

- 电光系数高

High nonlinear coefficients

应用领域 Applications

- 高功率激光器的频率转换

Laserfrequency conversion —harmonic generation for high pulse energy,

- 电光调制

Electro-optical modulation

- Q 开关

Q-switching crystal for Pockels cells



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性能参数:

Flatness	$\lambda/8$ at 633nm
Parallelism	≤ 20 arcsec
Wavefront Distortion	$\lambda/8$ at 633nm
Surface Quality	20-10
Perpendicularity	≤ 5 arcmin
Angle tolerance	$\leq \pm 0.25^\circ$
Dimension tolerance	± 0.1 mm
ClearAperture	90% of central area
Chamfer	≤ 0.2 mmx 45°
Chip	≤ 0.1 mm
Damage Threshold	1GW/cm ² 1064nm 10ns 10Hz for DKDP