

KDP & KD*P Crystal

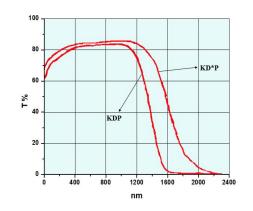
The nonlinear coefficients of KH₂PO₄ (KDP) and KD₂PO₄ (KD*P) are low. The characteristics of KDP & KD*P crystals are excellent UV transmission range, high damage threshold, high birefringence coefficient, etc. These crystals are widely used in high-tech fields such as laser frequency conversion, EO modulation, and optical fast switching. They are preferred materials for high-power laser systems. In addition, they have a high EO coefficient, so they are also used to make photoelectric Q switches and pockle cells.

Main features:

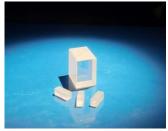
- No refractive light damage
- High anti-large threshold
- High birefringence coefficient, superior EO coefficient
- Compact design for easy adjustment
- Good environmental tolerance

Typical applications:

- High power laser inverter material
- EO modulation, laser Q switch
- Double-, triple-, and quad-octave devices for Nd:YAG lasers
- Nd: YLF laser



KDP & KD*P T%-nm Curves



Standard Products

Model	Size (mm)	θ (°)	Φ (°)	Coating
KDP 901	$12\times12\times5$	76.5	45	AR/AR @ 532/266 nm
KDP 902	$15 \times 15 \times 7$	76.5	45	AR/AR @ 532/266 nm
KD*P 201	$15\times15\times13$	36.5	0	AR/AR @ 1064+532 nm
KD*P 202	$15 \times 15 \times 13$	53.5	0	AR/AR @ 1064+532 nm
KD*P 203	$12 \times 12 \times 20$	59.3	0	AR/AR @ 1064+532/355 nm

Note: KDP & KD*P is easy to deliquescize, Please use & store in a dry For more information about products click on: **www.voyawave.com**

Technical Parameters

Names of Parameters	Values & Ranges		
Size tolerance	±0.1 mm		
Dimension tolerance	< ±0.2°		
Clear aperture	> 90%		
Surface quality	20/10		
Flatness	< \lambda / 8 @ 633 nm		
Wavefront distortion	< \lambda / 8 @ 633 nm		
Parallelism	< 20 h		
Perpendicularity	< 5 arc min		
Coating	According to customer requirements		
Size tolerance	1 year (under normal use)		

See appendix P32 for more information

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