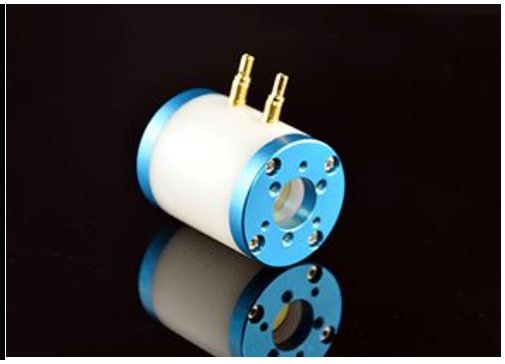
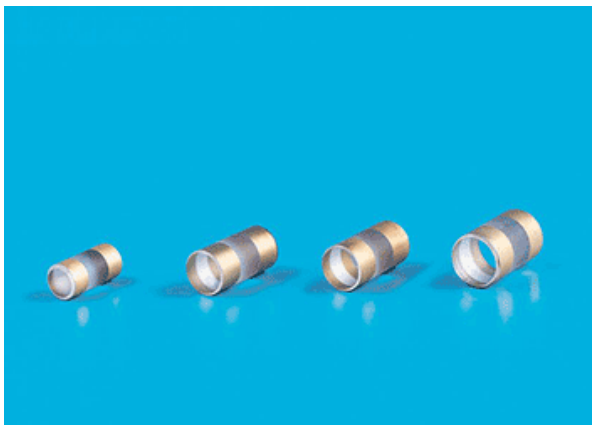
DKDP Pockels Cells

DKDP or KD*P crystals have high electro-optic coefficients, which makes well-suited for pockels cells Q-switches applications. DKDP crystals also have good transmission at UV to 1.1μm, makes the **DKDP pockels cells** suitable for applications with wavelengths from the UV to approximately 1.1 μm . Hangzhou Shalom EO offers the DKDP pockels cells with output aperture from 6mm-12mm, some types of stocked pockels cells are available in fast delivery and low cost.





Features

- High deuteration (>98.0%) DKDP
- No static birefringence
- No photorefractive damage
- Resistant to environmental temperature
- Excellent electric-optical properties
- Sealant and adhesive free

Addr. Room A1031, Boke Mansion, No.9 Xiyuan Road, Xihu District, Hangzhou 310030, China.
Tel:+86-571-87920630 Fax:+86-571-87603342 E-mail:sales@shalomeo.com Home:www.shalomeo.com

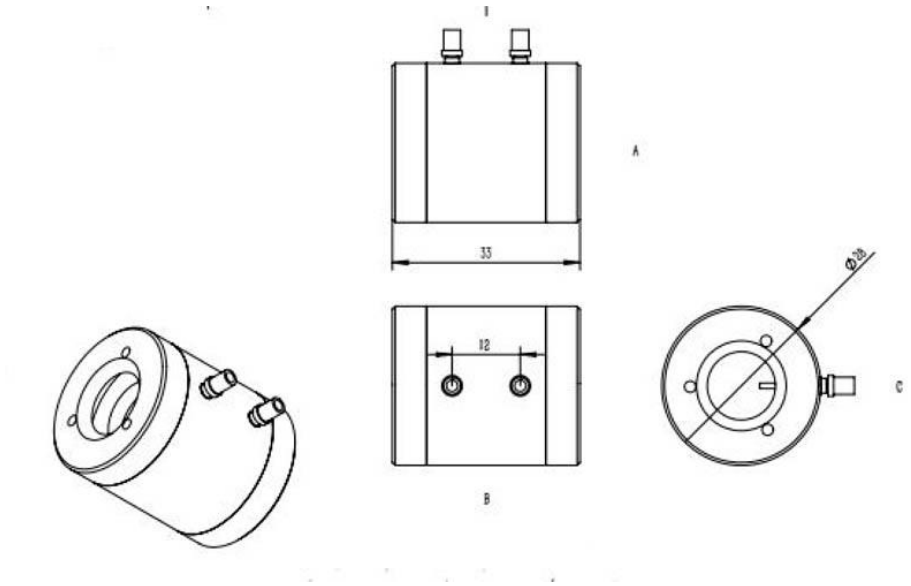
Modules or types

DKDP pockels cells modules			
Output aperture	φ8mm	φ10mm	φ12mm
Out diameter and length	φ20x25mm	φ28x33mm	φ28x33mm
Transmission @ 1064nm	>98%	>98%	>98%
Wavefront distortion	<λ/8	<λ/8	<λ/8
Extinction ratio	>1500:1	>1500:1	>1500:1
Quarter Wave Voltage	3400V	3400V	3400V
Capacitance	<6pF	<6pF	<6pF
Damage threshold	800MW/cm^2	800MW/cm^2	800MW/cm^2

Note: custom types or specifications are available upon customer's request.

Specifications of the DKDP crystals in pockels cells	
Crystal materials	DKDP crystals (deuteration >98%)
Dimension Tolerance	(W+/-0.1mm)x(H+/-0.1mm)x(L+/-0.2mm)
Surface quality	10/5 S/D
Parallelism	<20 arc seconds
Flatness	< Lambda/10 @633nm
Chamfer	0.1-0.3mmx45°
Chips	<0.15mm
Side surface	Fine ground
Orientation tolerance	< 10 arc minutes

Drawing of the pockels cell



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Application Notes

With excellent physical and optical property, DKDP series Pockels cells are widely used in laser systems with large caliber, high power and narrow pulse width. They are among the optimal **E-O Q-switches** used in pulse laser systems, including:

- OEM laser systems
- Medical/cosmetic lasers
- Versatile R&D laser platforms
- Military & aerospace laser systems

Application Notices on DKDP Series Q-switch

- Core exposure or loose contact is forbidden
- Recommend to be operated at constant temperature
- Pease avoid any intense impact or vibration
- Unauthorized disassembly is forbidden

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