CASTECH®

LASER COMPONENTS

 GWU-Lasertechnik

279

CASTECH

KD*P Pockels Cells

Pockels cells are used to change the polarization state of light passing through it when a voltage is applied to the electrodes of electro-optic crystals such as KD*P. When used in conjunction with polarizer, pockels cells can be used as fast optical switches.



We offer different kinds of KD*P pockels cells. The DPC-R series are

cylindrical and the DPC-S series are cubic. For DPC-R series, the electrode connection can be optional among wires, thread and pin. And also, it's available with integrated, pre-adjusted Brewster polarizer such as DPC-R8S-PB and with ceramic to control the aperture such as DPC-R8S-PC.And for the DPC-S series, switching voltage can be halved such as DPC-S8D-P.

All pockels cells series have AR coated windows for improved lifetime and protection in less user friendly environment.

Features

- KD*P-based pockels cells
- Low absorption loss
- Good temperature stability
- High extinction ratio

- > Capacitance value is small, fast switching speed
- High damage threshold
- Compact structure

Applications

- Medical and aesthetic laser systems
- ► Regenerative amplifiers

Cavity dumping

▶ Q-switching of the laser cavity

Model Number



Typical Transmission Curve





Pockels Cells

Specifications							
Product		DPC-RNS-W	DPC-RNS-PC	DPC-RNS-PB	DPC-RNS-P	DPC-SNS-P	DPC-SND-P
Clear Aperture, Φ(mm)		8,10,12	8,10,12	8,10	8	8	8
Intrinsic Contrast Ratio(ICR)		>2000:1	>2000:1	>1000:1	>2000:1	>2000:1	>2000:1
Voltage Contrast Ratio (VCR)	СР	>1500:1	>1500:1	>800:1	>1500:1	>1500:1	>1500:1
	PP	>1000:1	>1000:1	>500:1	>1000:1	>1000:1	>500:1
Optical Transmission		>98%	>98%	>97%	>98%	>98%	>97%
λ/4 Voltage (@ 1064 nm), kV DC		<4.0	<4.0	<4.0	<4.0	<4.0	<2.0
Capacitance, pF		3-8	3-8	3-6	3-4	3-4	6-8

All crystals are coated AR/AR@1064 nm. Other antireflection coatings are available under request.

Damage threshold >10 J/cm2 for 5 ns pulses, 10 Hz at 1064 nm.







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