Pockels Cells

PCK KTP POCKELS CELLS

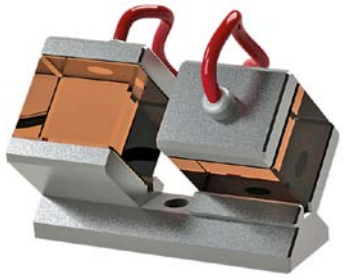
PCK4

New PCK series KTP Pockels developed at EKSMA OPTICS are based on specially grown high resistivity KTP crystals. KTP crystals have better optical homogeneity and higher damage threshold comparing to RTP crystals. The outstanding feature is possibility to operate KTP Pockels cells at high duty cycles or even to keep at high voltage for the longer time.

APPLICATIONS

- **Q-switching for high repetition rate lasers 1 kHz – 1 MHz**
- **Pulse picking of high repetition rate lasers**

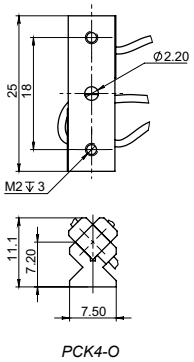
- **More than twice smaller HV requirement comparing to double BBO Pockels cells**
- **Operates at high duty cycles**
- **Very low piezo-electric resonances**
- **Standard available apertures: 4×4, 6×6 and 8×8 mm**



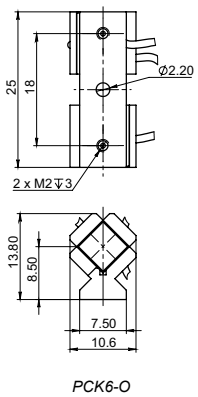
For drawings of other standard KTP Pockels Cells please visit ***www.eksmaoptics.com***

SPECIFICATIONS

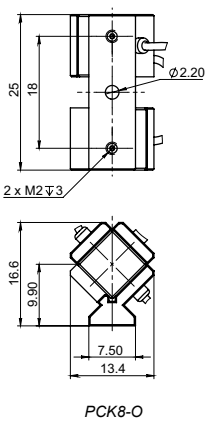
Model	PCK4	PCK4-O	PCK6	PCK6-O	PCK8-O
Clear aperture diameter, mm	3.5		5.5		7.5
Crystal size (W×H×L), mm	4×4×10		6×6×10		8×8×10
Quantity of crystals	2				
Half-wave voltage (@ 1064 nm), kV DC	<1.8		<2.5		<3.6
Capacitance, pF	4		<6		<8
Optical transmission, %	> 98				
Contrast ratio	>1:500				
Cell size, mm	Ø25.4×42.2	25×11.1×7.5	Ø25.4×42.2	25×13.8×10.6	25×16.6×13.4



PCK4-O



PCK6-O



PCK8-O

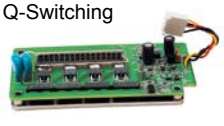
RELATED PRODUCTS

Mounting Stages for Pockels Cells of Ø25.4 mm

See page 3.5

DQ High Repetition Rate Pockels Cell Driver for Q-Switching

See page 3.6



DPD Cavity Dumping & Pulse Picking Pockels Cell Drivers

See page 3.7