

KD*P Pockels Cell 50 Ohm Series

Leveraging extensive experience and innovations in optical solutions for lasers and laser systems for industrial, medical and semiconductor applications, the new Qioptiq transmission line 50 Ohm Pockels cell provides ultra-fast switching in the nano-second and sub-nano-second range combined with excellent extinction and high transmission in a 50 Ohm impedance matching compact design. These ultra-fast Pockels cells are ideally suited for integration in medical laser systems in cases where fast switching, pulse slicing or pulse picking is required.

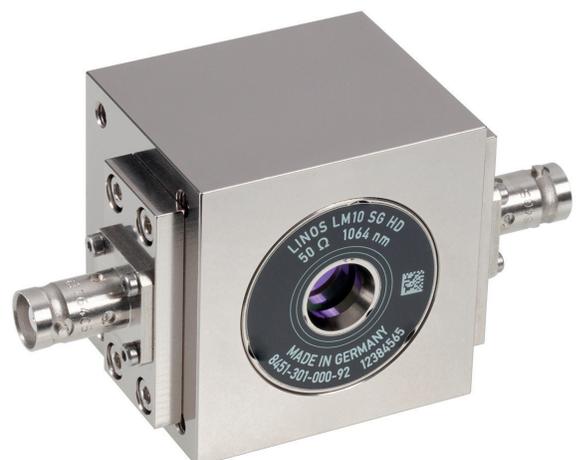
Features

- KD*P-based pockels cell
- High crystal deuteration (typical): > 98%
- 50 Ohm type Pockels cell for use in transmission line configuration
- Suitable for fast switching and pulse slicing (rise / fall time: < 500 ps possible with suitable high voltage driver)

Technical Data

- Impedance approx. 50 Ohm (not guaranteed)
- BNC connectors
- Wavefront distortion: < $\lambda/4$
- Damage threshold: > 2 GW/cm² at 1064 nm, 12 ns, 1 Hz (typical)
- Crystal diameter: 10 mm
- Anti-reflection coating on crystal: SolGel (SG)

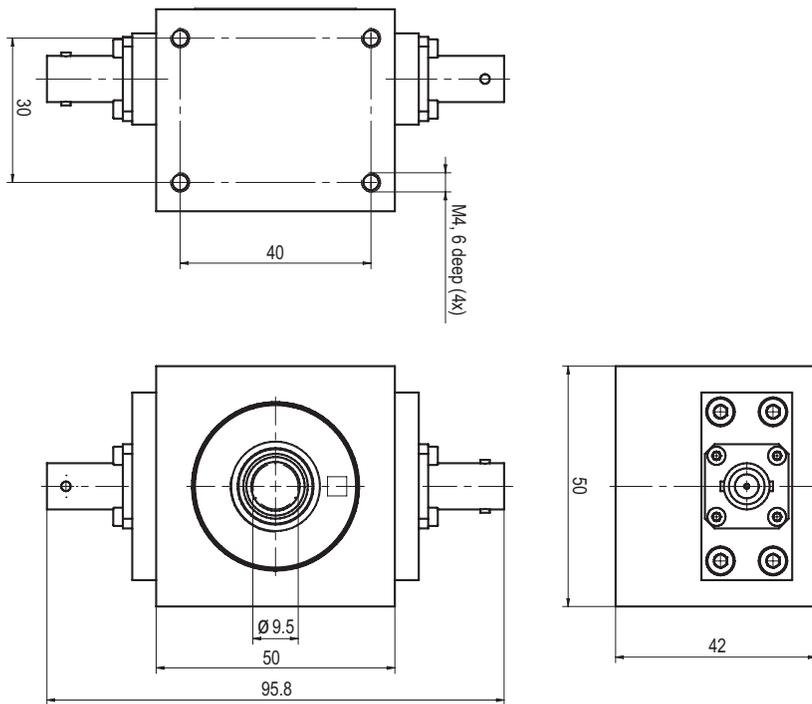
- Other specifications on request



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Product	Design wave-length (nm)	Clear aperture \varnothing (mm)	Transmission typical (%)	Extinction ratio (voltage-free)	$\lambda/4$ -Voltage DC, 20°C (kV)	Capacitance (pF)	Part Number
LM10 SG HD 50 Ohm 1064 nm	1064	9.5	98	> 1000:1	3.2 at 1064 nm +15% / - 10%	8	845130100092
LM10 SG HD 50 Ohm 755 nm	755	9.5	98	> 1000:1	2.3 at 755 nm +15% / - 10%	8	845130100093

Subject to technical changes



For technical information contact:

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