



IMPACT Series KD*P Pockels Cell IMPACT 8, 9, 10, and 13

From the world leader in nonlinear materials and electro-optic devices comes the ideal Pockels cell for OEM applications, the IMPACT KD*P cell. Once again, we set the industry standard, and at an exceptional value. The IMPACT employs the finest strain-free, highly deuterated KD*P available. Ceramic apertures ensure robust performance in demanding applications. The IMPACT offers high damage threshold SolGel and dielectric AR coatings for a variety of laser wave-lengths. Superior connectors for high-voltage applications, the standard pin-type connectors provide quick connection for simplified system design and assembly. Conventional threaded connectors are available as an option, if needed.

Key Features:

- Exceptional value
- Finest strain-free KDP/KD*P
- Compact low mass & space efficient
- Ceramic apertures
- Premium UV-grade fused silica windows
- High contrast ratio
- Quick connect pin terminals
- High optical damage resistance
- Operation to 1kHz
 - Each device tested to meet specs

Key Benefits:

- Small size fits in miniature systems
- Excellent/accessible technical support
- One year limited warranty

Applications:

- OEM
- Medical
- Research
- Education
- Military



Performance Data

Typical Specifications 99% KD*P	IMPACT 8	IMPACT 9	IMPACT 10	IMPACT 13
Physical				
Hard aperture diameter	8 mm	9.25 mm	10 mm	13 mm
Single Pass Insertion Loss @ 1064 nm	<2%	<2%	<2%	<2%
Intrinsic Contrast Ratio (ICR) @ 1064 nm	>2000:1	>2000:1	>2000:1	>2000:1
Voltage Contrast Ratio (VCR) @ 1064 nm (parallel polarizers)	>1500:1	>1500:1	>1500:1	>1500:1
Single Pass Distortion @ 633nm	<λ/6	<λ/6	<λ/6	<λ/6
Electrical				
Capacitance (DC)	6pF	6pF	6pF	6pF
DC Quarter wave voltage @ 1064nm	3.5 kV	3.5 kV	3.5 kV	3.5 kV
10-90% Rise time (theoretical) into 50 Ω line	0.8 ns	0.9 ns	1.1 ns	1.1 ns
Laser damage threshold (LIDT)				
Dielectric AR window coatings for 10ns pulse, 1 mm diameter	10 J/cm ²	10 J/cm ²	10 J/cm ²	10 J/cm ²



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As part of our policy of continuous product improvement we reserve the right to change specifications at any time IMPACT140529