



CQX Series KD*P Pockels Cell

CQX8 / CQX9.25 / CQX12.3 / CQX15.5 / CQX25

Built using the same construction techniques developed for the IMPACT series OEM Pockels cells, the CQX series cells are a drop-in replacement for the industry-standard QX series Pockels cells in many applications. CQX Pockels cells employ the finest strain-free, highly deuterated KD*P, ceramic apertures, ultra-high-damage threshold AR coatings and standard pin-type connectors, used on the IMPACT series cells. Optional threaded connectors are also available.

Like the QX series cells, these devices provide reliable, stable performance for a diverse range of laser applications, from < 300 nm to 1100 nm. The standard configuration employs a broad band, high damage threshold SolGel AR coating for improved durability and performance. All units are tested for optic and electric function and are supplied with a QA inspection report and suggested alignment procedures.

Key Features:

- Solid State – SolGel coated crystal
- Highest (> 98% in the crystal) deuteration levels in industry
- Adhesive/Epoxy-free assembly
- Premium UV-grade fused silica windows
- Apertures from 8 mm to 25 mm diameter
- Lowest absorption in the industry
- High-reliability
- Highest optical damage resistance
- Test documentation with each device
- Operation to 2 kHz (10 kHz special order attenuated model)
- One year limited warranty

Key Benefits:

- G&H quality economically priced
- Excellent/accessible technical support

Applications:

- OEM and replacement
- Research
- Education
- Military

Performance Data

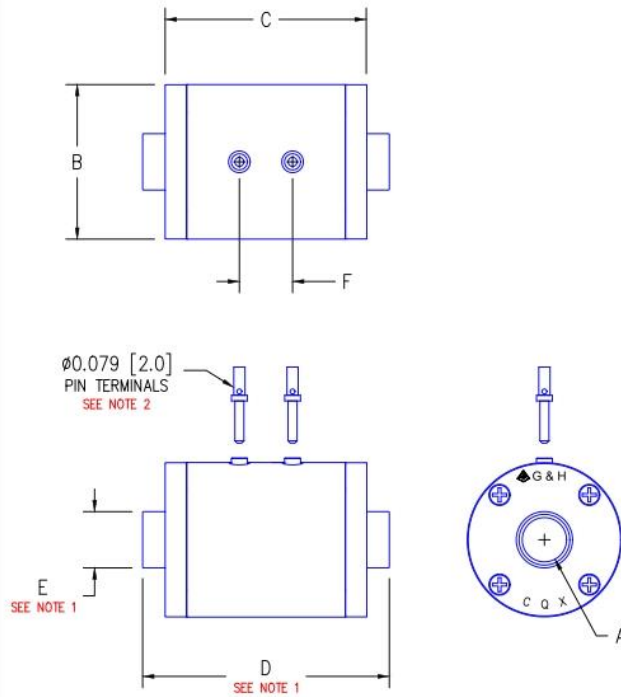
Typical Specifications 99% KD*P @ 1064 nm

Physical

	CQX 8	CQX9.25	CQX12.3	CQX15.5	CQX25
Hard aperture diameter	8 mm	9.25 mm	12.3 mm	15.5 mm	25 mm
Single Pass Insertion Loss @ 1064 nm	<1.4%	<1.4%	<1.4%	<1.4%	<1.4%
Intrinsic Contrast Ratio (ICR) @ 1064 nm	2000:1	2000:1	2000:1	2000:1	2000:1
Voltage Contrast Ratio (VCR) @ 1064 nm (parallel polarizers)	1500:1	1500:1	1500:1	1500:1	1500:1
Single Pass Distortion @ 633nm	< $\lambda/6$	< $\lambda/6$	< $\lambda/6$	< $\lambda/6$	< $\lambda/6$

Electrical

Capacitance (DC)	6pF	6pF	7pF	7pF	7pF
DC Quarter wave voltage @ 1064nm	3.5 kV	3.5 kV	3.5 kV	3.5 kV	3.5 kV
10-90% Rise time (theoretical) into 50 Ω line	0.8 ns	0.8 ns	1.1 ns	1.1 ns	1.1 ns
Duty Cycle in 1 s (applied voltage time/ total time)	< 5%	< 5%	< 5%	< 5%	< 5%

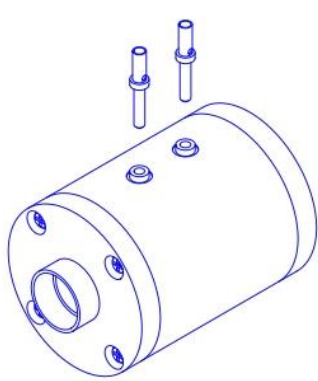


$\phi 0.079$ [2.0]
 PIN TERMINALS
 SEE NOTE 2

SEE NOTE 1
 SEE NOTE 1

NOTES:

- DUST TUBE OPTION SHOWN: END CAPS WITHOUT DUST TUBES ALSO AVAILABLE (CQX 15.5 AND CQX 25 MODELS AVAILABLE WITH DUST TUBE END CAPS UPON REQUEST)
- SCREW TERMINAL OPTION WITH HEX NUTS ALSO AVAILABLE
- EACH MODEL PROVIDED WITH HARD CERAMIC APERTURE
- DIMENSIONS "D" AND "E" APPLY ONLY TO DUST TUBE END CAP OPTION
- MODEL CQX 12.3 ALSO AVAILABLE IN 1.563 [39.7] DIAMETER



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MODEL	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "F"
CQX 8	0.315 [8.0]	1.373 [34.9]	1.700 [43.2]	2.100 [53.3]	0.500 [12.7]	0.472 [12.0]
CQX 9.25	0.364 [9.25]	1.373 [34.9]	1.821 [46.3]	2.221 [56.4]	0.500 [12.7]	0.472 [12.0]
CQX 12.3	0.484 [12.3]	1.373 [34.9]	1.907 [48.4]	2.307 [58.6]	0.749 [19.0]	0.472 [12.0]
CQX 15.5	0.612 [15.5]	1.373 [34.9]	2.078 [52.8]	SEE NOTE 1	SEE NOTE 1	0.630 [16.0]
CQX 25	0.984 [25.0]	2.000 [50.8]	3.250 [82.6]	SEE NOTE 1	SEE NOTE 1	0.630 [16.0]

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