

QX Series

KD*P Pockels Cell

QX1020 / QX1320 / QX1630 / QX2035

The QX series sets the standard for KD*P electro-optic Q-switches.

These devices provide reliable, stable performance for a diverse range of laser applications, from < 300 nm to 1100 nm.

We offer a unique rebuild program that extends the QX lifetime. All rebuilt units are upgraded with the latest product improvements and are returned with a new one-year warranty.

The standard configuration employs a broad band, high damage threshold solgel AR coating for improved durability and performance. The QX series is also available with a choice of end caps.

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 available (>98% in the crystal) deuteration levels
- G&H grown KD*P crystal
- Adhesive/epoxy-free assembly
- Premium UV-grade fused silica windows
- Apertures from 9.25-19.5 mm diameter
- Lowest absorption in the industry
- Economical upgrade/rebuild program
- Highest optical damage resistance
- Test documentation with each device
- Operation to 3 kHz (10 kHz attenuated model)
- One-year limited warranty

Key Benefits

- High-reliability
- Industry standard design with installed base of thousands
- Excellent/accessible technical support

Applications

- Q-switching, pulse picking and cavity dumping
- Industrial and military OEM, and research laser systems



Typical Specifications 99% KD*P@1064 nm	QX1020	QX1320	QX1630	QX2035
PHYSICAL				
Hard aperture diameter	9.25 mm	12.3 mm	15.1 mm	19.5 mm
Single pass insertion loss @ 1064 nm	<1.4%	<1.4%	<1.8%	<2.0%
Intrinsic contrast ratio (ICR) @ 1064 nm	5000:1	5000:1	5000:1	5000:1
Voltage contrast ratio (VCR) @ 1064 nm (parallel polarizers)	2500:1	1500:1	1800:1	1000:1
Single pass distortion @ 633 nm	<λ/8	<λ/8	<λ/8	<λ/6
ELECTRICAL				
Capacitance (DC)	5 pF	7 pF	9 pF	13 pF
DC quarter wave voltage @ 1064 nm	3.5 kV	3.5 kV	3.5 kV	3.5 kV
10-90% rise time (theoretical) into 50 Ω line	0.8 ns	1.1 ns	1.1 ns	1.5 ns

