

RTP Q-switch

Applications

Operation

Electro-Optic

Advantages

- + Wide optical bandwidth (0.5-3 μ m)
- + Low switching voltage
- + High laser induced damage threshold
- + No piezo electric ringing
- + Precise switching in high rep rate laser with super-fast voltage drivers
- + Thermally compensated design to operate on large temperature range

Field of Application

- + Q-switching (On and Off)
- + Pulse picking

Electro optics properties

	X-cut		Y-cut		Resistivity ⁽³⁾
	HWV ⁽¹⁾ at 1064nm	Extinction ratio ⁽²⁾	HWV ⁽¹⁾ at 1064nm	Extinction ratio ⁽²⁾	
	V	dB	V	dB	Ohm.cm
Pair of 3x3x10mm	1200	>26	1000	>24	>10 ¹¹
Pair of 4x4x10mm	1700	>25	1400	>23	>10 ¹¹
Pair of 5x5x10mm	2100	>24	1700	>22	>10 ¹¹
Pair of 6x6x10mm	2500	>23	2100	>21	>10 ¹¹
Pair of 7x7x10mm	2900	>22	2450	>21	>10 ¹¹
Pair of 8x8x10mm	3300	>21	2750	>20	>10 ¹¹
Pair of 9x9x10mm	3750	>21	3150	>20	>10 ¹¹

(1) HWV means Half Wave Voltage. This is the voltage to apply between crossed polarizers to switch from zero to maximum transmission. (+/-15%)

(2) Extinction ratio is given for a circular clear aperture of 80%.

(3) Resistivity is given for an applied electric field of 4kV/cm, 22°C and 25% humidity.

Specifications :

- + Capacitance 5-6 pF
- + Transmission >99%
- + Custom designs upon request
- + Several coating types available (see p.10)

