

Half-Wave Voltage and extinction ratio for a pair of X-cut RTP crystals

For a standard length of 10mm each:

Aperture	Half-Wave Voltage ⁽¹⁾ at 1064nm (V)	Extinction Ratio ⁽²⁾ (dB)
3x3mm ²	1200	>25
4x4mm ²	1700	>25
5x5mm ²	2100	>25
6x6mm ²	2500	>25
7x7mm ²	2900	>25
8x8mm ²	3300	>25
9x9mm ²	3750	>25
10x10mm ²	4150	>25

⁽¹⁾ : This is the voltage to apply between crossed polarizers to switch from zero to maximum transmission (+/-15%). The HWV is proportional to the wavelength and inversely proportional to the length of the crystal.

⁽²⁾ : Extinction ratio is given for a circular clear aperture of 80%. Extinction ratio of 30dB or better available upon request.