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Q-Switches KD*P Pockels Cells EM508/510/512/565

The EM500 series of KD*P longitudinal Pockels cells have been designed to give the lowest possible switching times using 50ohm line techniques and are normally used for Q-switching lasers. These cells are manufactured from crystals that have been specially selected for their low optical loss and strain free properties. They can be used in the optical range 0.3-1.2µm and are normally supplied with windows optically coated at the customers specified wavelength. These products can be supplied either in either one, two or four terminal configuration and either index matching fluid filled (preferred) or dry with or without anti-reflection coatings on the crystal.

Specifications

Model No.	EM508	EM510	EM512	EM565
Aperture	8mm	10mm	12mm	16mm
Wavelength Range	0.3-1.2µm	0.3-1.2µm	0.3-1.2µm	0.3-1.2µm
Half-wave Voltage @ 1.06µm	6.0kV	6.0kV	6.2kV	6.3kV
Maximum Voltage	10kV	10kV	10kV	10kV
Optical Rise Time	< 0.25ns	< 0.25ns	< 0.25ns	< 0.3ns
Contrast Ratio @ 1.06µm	> 1000:1	> 1000:1	> 1000:1	> 1000:1
Crystal length	20mm	25mm	25mm	30mm
Capacitance Unterminated	15pf	15pf	15pf	20pf
Damage Threshold Q-switched	600MW/cm ²	600MW/cm ²	600MW/cm ²	600MW/cm ²
Insertion Loss	4%	4%	4%	4%
Terminations	H.V.BNC	H.V.BNC	H.V.BNC	H.V.BNC
Finish	Black anodised	Black anodised	Black anodised	Black anodised
Physical Dimensions	50mm dia. 50mm long	50mm dia. 55mm long	50mm dia. 55mm long	60mm dia. 70mm long