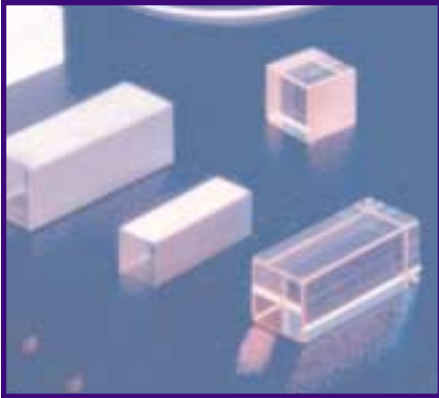


LITHIUM NIOBATE Q-SWITCH ELEMENTS



DESCRIPTION

Deltronic Crystal's Lithium Niobate, with its combination of excellent optical transmission and high electro-optic coefficient, is an ideal choice for Pockels Cell Q-Switching.

Crystals are grown, oriented and cut to provide z-axis optical propagation. Q-Switch elements are polished, electroded and anti-reflection coated, ready for laser cavity installation. Sizes and shapes can be tailored to meet custom device requirements.

FEATURES

- Low Wavefront Distortion
- High Extinction Ratio
- Low Transmission Loss
- Super-Polished Optical Faces
- Precise Crystal Orientation
- Low Reflectance AR Coatings
- High Damage Threshold

APPLICATIONS

- Range Finders
- Target Designation
- YAG Q-Switched Lasers

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SPECIFICATIONS

Length (Z-Axis)	±0.5mm
Cross-Section	
X-Axis	±0.1mm
Y-Axis	±0.1mm
Chamfer, all edges	0.1/0.25mm at 45°
Optical faces, normal to Z-Axis	Within 10 arc minutes
Lateral faces, normal to X & Y Axes	Within 10 arc minutes
Typical Laser Damage Threshold	≥300MW/cm ² at 1064nm
Optical Face	
Polish	10-5 scratch-dig
Flatness	λ/10 at 633nm
Parallel	within 10 arc seconds
Anti-reflection Coatings	Reflectance ≤0.25%
Surface Finish, lateral faces	Fineground
Electrodes	Au/Cr on X-faces
Extinction Ratio at 633nm, passive	≥20dB
Transmitted Wavefront Distortion	λ/6 or better