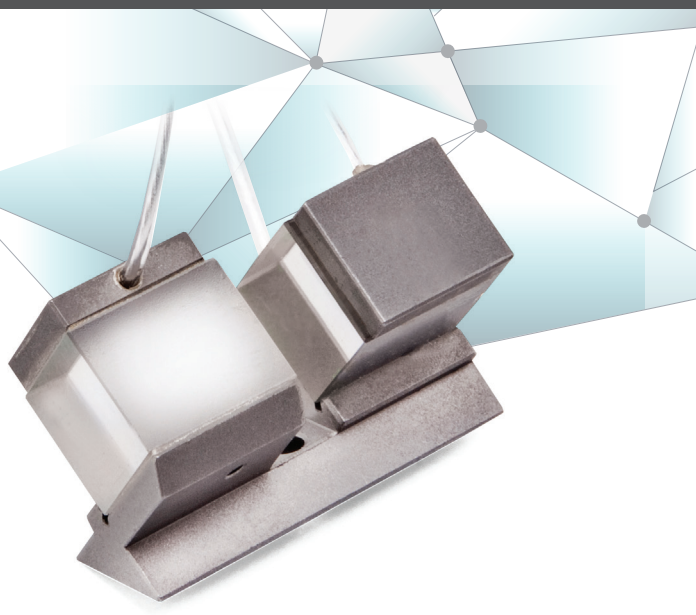
RAICOL CRYSTALS



# RTP EO Cells

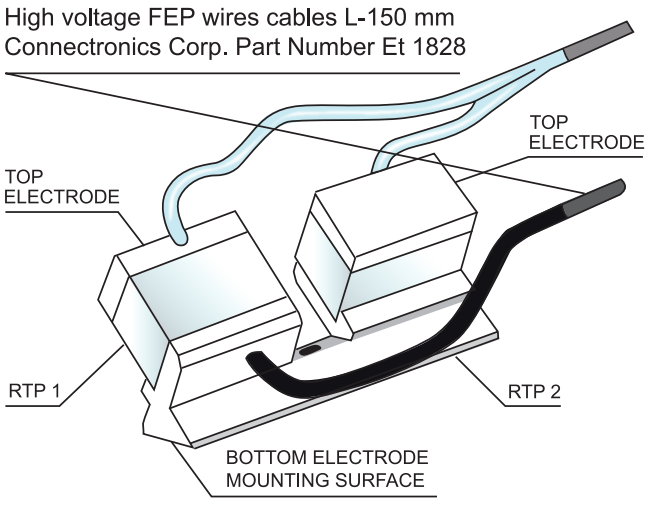
Used for electro-optics applications, RTP crystals offer superior properties for users in the aerospace, defense, medical, industrial, civil and scientific applications.

RTP EO Cells are assembled in a thermally compensated double-crystal configuration, in which two matched crystals are placed in line of the propagation axis (X or Y) with one rotated by 90 degrees (general drawing below).

## Common Applications

Q Switches | Pulse pickers
Phase modulators | Amplitude modulators
Cavity dumpers | Shutters
Attenuators & Deflectors

## RTP EO Cell Structure




## Advantages

- Low half-wave voltage for EO Cells to enable a compact design
- Rise time, fall time, and pulse width of 1 ns to enable fast operation
- Designed to operate over wide temperature range (-50°C to 70°C)
- High laser-induced damage threshold (up to1000 MW/cm2, at 1064 nm, 10 ns pulse)
- Minimal ringing, compatible for 1 MHz repetition rate
- Non-hygroscopic, easy handling, no cover needed
- The best material in the spectral range of 500-3000 nm for electro-optics applications
- Very low absorption losses at 1064 nm wavelength
- Extremely high homogeneity: up to 15*15 mm EO cells as a standard size