



Gooch & Housego



IRX Series CdTe Pockels Cell

Initially designed to address the Q-switched CO₂ laser market at 10.6 μ m, Gooch & Housego's cadmium telluride - based IRX Q-switch may be configured to operate from ~5-12 μ m. Its' high electro-optic coefficient and non-hygroscopic nature makes CdTe well-suited for this purpose. Through more than 30 years of electro-optic device design experience, Gooch and Housego provides IRX Pockels cells with application-specific AR coatings or Brewster-cut ends, in apertures ranging from 3mm-10mm. The IRX Pockels cells are able to address applications beyond the spectral range of traditional oxide Pockels cells.

Typical Performance:

ICR	>500:1 @ 10.6 μ m
Apertures	3mm, 5mm, 7mm & 4 x 10mm*
Spectral range of operation	~5-12 μ m (must specify single wavelength of operation)
Optical transmission	>98% at 10.6 μ m (other wavelengths available)
DC half-wave Voltage (for nominal 5mm aperture x 50mm length)	~ 5kV** @10.6 μ m

* Custom aperture sizes available

** Voltage is a function of electrode spacing and crystal length and will vary with application. Voltage shown is for the 4x10mm configuration.



光技術をサポートする

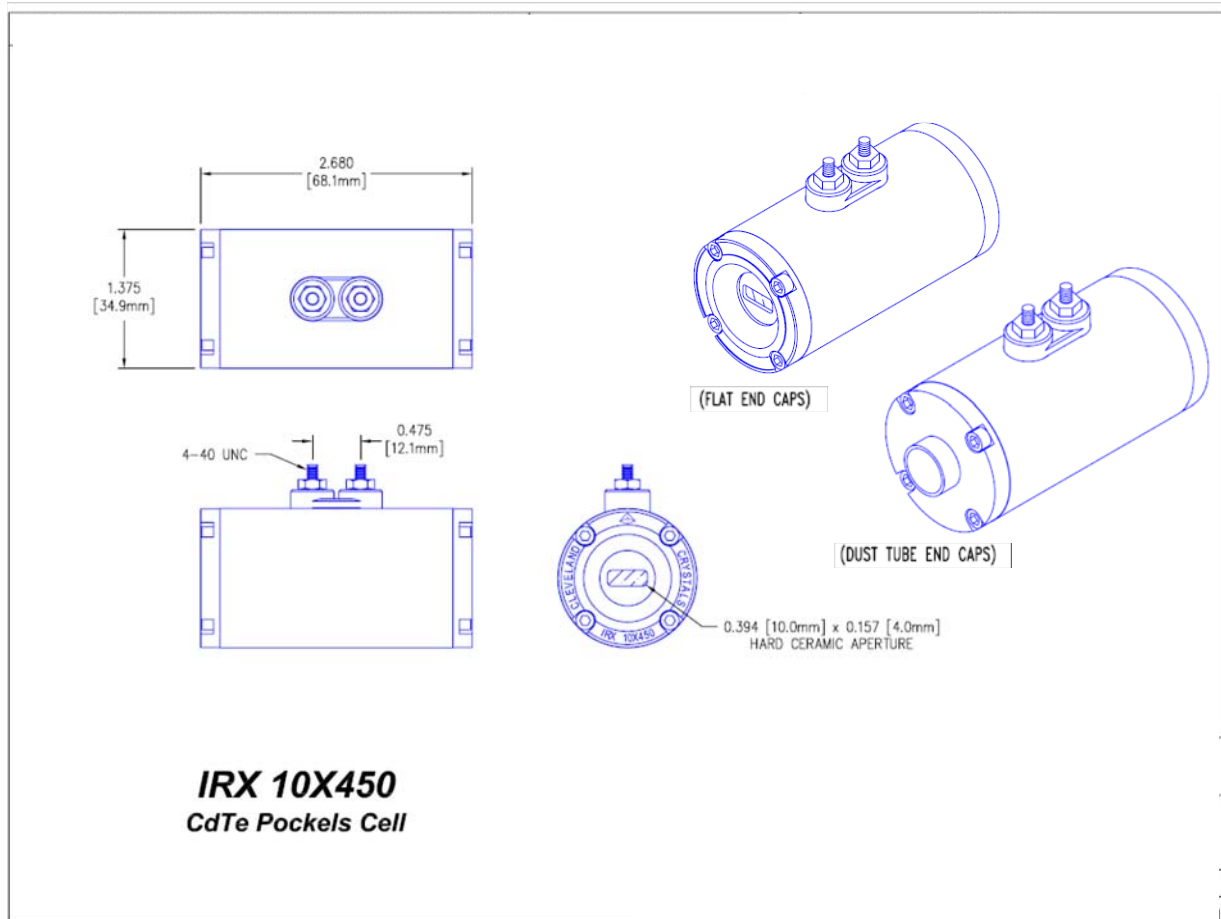
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Features

- High Electro-Optic Coefficient CdTe Crystal
- Useful as a Q-Switch for CO₂ Lasers
- Available with apertures ranging from 3-10mm
- Customized versions available
- AR coated or Brewster-cut crystals available



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