

# iRTP

## Pockels Cell



RTP belongs to the KTP crystal family. The outstanding Electro-Optical properties of RTP, together with its high damage threshold, make it a perfect solution for high-end laser applications. It is ideal for applications that require advanced characteristics, such as non-hygroscopic, high thermal stability, and high-repetition rates.

Raicol's new iRTP Pockels Cell (PC) is the first product that brings the advantages of RTP to the EO mass market. iRTP PC is a modified version of Raicol's RTP, designed specifically for Industrial laser applications. Raicol's iRTP PC is a standard off-the-shelf solution that offers high performance EO cells at the price of standard industry PCs.

### Raicol's iRTP PC Features:

- Higher laser damage threshold
- Fast rise-fall time and short pulse width
- Non-hygroscopic material
- Low absorption losses
- No acoustic ringing (up to at least 350kHz)
- Thermal Stability over a wide operational temperature range (10°C – 50°C)

## Typical Specifications for iRTP Pockels Cell

iRTP Parameters	iRTP 6	iRTP 8	iRTP 10
Aperture	6x6mm	8x8mm	10x10mm
Capacitance	< 6pf		
Quarter wave voltage (@1064)	3.3 KV		
Optical transmission	>99%		
ER (@1064)	≥27 dB		
Damage Threshold	typically, > 1GW/cm <sup>2</sup>		
Alignment Access	1 axis alignment		
Housing Dimensions	Round: Ø 35 mm, Length 35 mm (there is a 1" design) / Square: 35mmx35mmx35mm		
Rise Time	<1 ns		
Thermal Stability	10 - 50 Deg.		

**Raicol Crystals, founded in 1995, is a global leader in nonlinear and EO crystal growth, fabrication, and assembly. Raicol offers a unique set of benefits to its customers:**

- 50 years of experience in crystal growth
- Global pioneers of RTP, HGTR KTP, and PPKTP crystal growth and assembly
- A one-stop-shop, from crystal growth through to coating and EO cell assembly
- Mass production and small R&D volume capabilities