

## Raicol's iRTP PC Specifications

iRTP Parameters			
Aperture	6x6mm	8x8 mm	10x10 mm
Capacitance	< 6pf		
HWV V ( $\lambda/2$ ) (@1064)	3.3 KV		
Optical transmission	>99%		
ICR (@1064)	27 dB		
Damage threshold	typically, > 1GW/cm <sup>2</sup>		
Alignment access	1 axis alignment		
Housing Dimensions	Round: $\Phi$ 35 mm, Length 35 mm. (there is a 1" design)		
	Square: 35 mm x35mmx35mm		
Rise time	<1 ns		
Thermal stability	10 – 50 Deg.		

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

- 50 years of crystal growth know how and experience
- The global pioneers of RTP, HGTR KTP and PPKTP crystals and assembly
- One Stop shop from crystal growth through coating to EO Cell assembly
- Mass production capabilities as well as small R&D quantities
- Fast delivery time
- Unmatched crystal quality
- Custom designs upon request

## 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.

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### Raicol's iRTP PC Features:

- High 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)

