



RTP switch :

RTP (RbTiOPO4) is the same type of KTP crystal , which has higher electro-optical performance and can be used for electro-optic effect and nonlinear effect. RTP crystals have the advantages of high damage threshold (about 1.8 times that of KTP), high resistivity, high repetition frequency, no deliquescence, stable mechanochemical properties, and no piezoelectric effect.

RTP has a very wide transmission range, good optical transmission between 400nm and 4μm, and its transmission range is from 350nm-4500nm, and it is very effective for intracavity laser operation. RTP has a significant advantage in high anti-photodamage threshold, which can reach 1GW/cm2, 1ns, 10Hz in the 1064nm band.

main feature:

- high repetition rate
- Large nonlinear optics and electro-optic coefficients
- low half wave voltage
- No piezoelectric oscillation effect, no deliquescence
- High resistance to photodamage threshold, high extinction ratio

Typical application:

- Electro-optic Q-switching switch (laser ranging, laser radar, medical laser, industrial laser)
- Laser Power/Phase Modulation
- pulse picker

Product parameters :

transmission rate	>98.5% @1064nm					
Available Aperture	3, 4, 5, 6, 7, 8, 9, 10, 11, 12mm					
half wave voltage	1000V (3x3x10+10) @1064nm					
size	Regular size D25.4 x 35mm (for 3x3 clear light, 4x4 clear light, 5x5 clear light), other calibers can also be customized according to customer requirements					
Extinction Ratio	>23dB					
Acceptance angle	>1°					
damage threshold	>600MW/cm2 @ 1064nm (t = 10ns) layer					
Stable Performance Temperature Range	-50°C – +70°C					
Static half-wave voltage	<table border="1"> <tr> <td>4x4x20mm: 1600V</td> <td rowspan="3">@1064nm</td> </tr> <tr> <td>6x6x20mm: 2400V</td> </tr> <tr> <td>9x9x20mm: 3600V</td> </tr> </table>	4x4x20mm: 1600V	@1064nm	6x6x20mm: 2400V	9x9x20mm: 3600V	
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