

PPKTP

Periodically Poled KTP

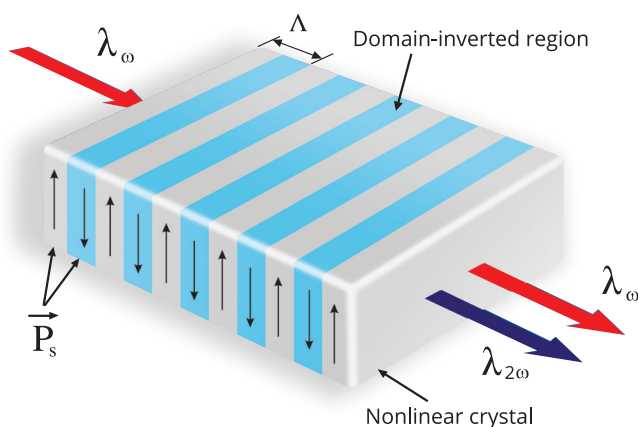


Periodically Poled KTP (PPKTP) is a unique type of nonlinear material that is based on quasi-phase matching (QPM). It can be tailor-made for all nonlinear applications within the transparency range of KTP, without the phase matching limitations of birefringent matching used in regular KTP interactions. Its effective nonlinear coefficient is about three times larger than that of bulk KTP.

Raicol has more than 20 years' experience in developing and manufacturing PPKTP for various applications. The company pioneered an original manufacturing process that has allowed reliable supply of PPKTP over the years. Raicol offers PPKTP in large production quantities, as well as small quantities for R&D activities.

Advantages

- Highest nonlinear coefficient
- Free of Walk-Off
- Large quantities for OEM mass-production as well as small quantities for R&D
- Broad phase-matching range
- Type 0 or type II interaction



Common Applications

SHG, FHG, DHG and OPO applications from visible up to mid IR



Typical Specifications:

Transparency Range:	350-4000 nm
Length:	Up to 30mm
Standard Aperture*:	1*2
Operation Temperature	Near room temperature / Per request
Coating Options:	Extra/Intra cavity, AR/AR, AR/HR
Damage Threshold	600 MW/cm ² at 1064 nm, for 10 ns pulses

*Custom apertures are available upon request

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 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