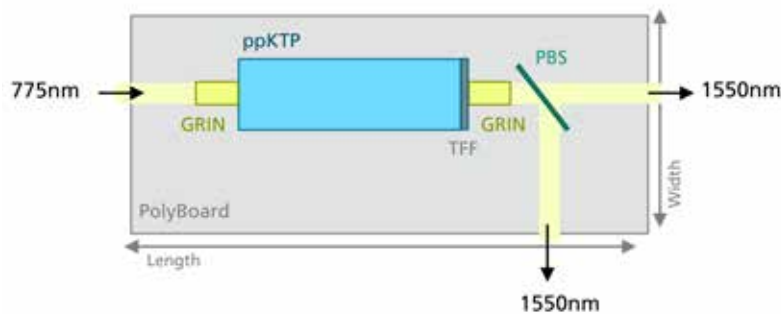


# Heralded Single photon module (Beta)

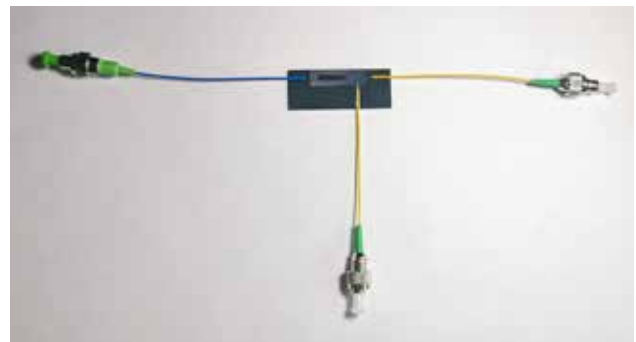
Raicol has integrated its ppKTP crystals into an innovative fiber-coupled platform, suitable for generation of correlated photon pairs and heralded single photons at telecom wavelengths. Designed for the SPDC process using Raicol's Type II PPKTP crystals, you can implement a modular, fiber-coupled heralded single-photon source for all your quantum applications.



- Non-committal estimate dimensions for PIC
  - Length 15 ... 25 mm (depends on crystal length)
  - Width 5 ... 6 mm
  - Height 1.5 ... 2 mm

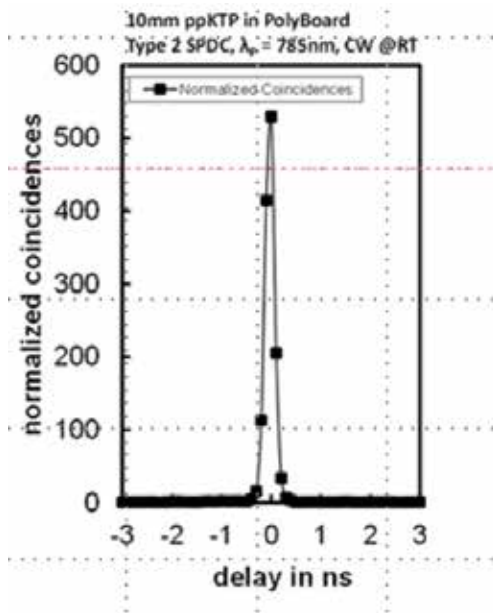
## The HSPC module features

- 10/15mm Type II PPKTP or APKTP
- 775 PM pump input, 2x 1550 SM signal/idler outputs with orthogonal polarizations
- Pump suppression filters
- Integrated Peltier oven for thermal tuning of the SPDC spectrum

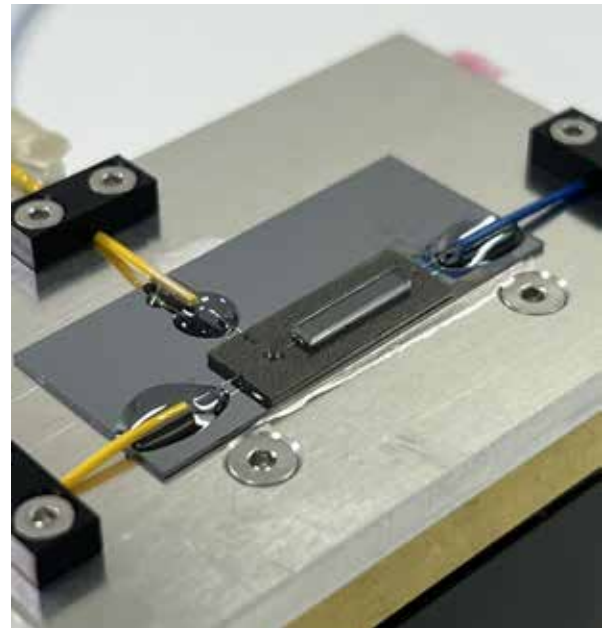


The HSPC module assembly on the Polyboard

## Technical specifications



Normalized coincident counts based  
At 785nm Pump



The HSPS module embedded in the plier oven

\* The product is in the Beta stage, and all specifications are not final.

**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
- Fast delivery times
- Unmatched crystal quality