

# PCMO01

## Small clip kit mount for room temperature operation

PCMO01

version 1.0/2015

Covesion's 1mm long PPLN crystals can be used without temperature control and at room temperature for femtosecond frequency doubling at around 1550nm. The PCMO01 post mount adapter is designed to hold a PC01 clip kit for 1mm long crystals, and be compatible with standard optics posts, which are widely available at optomechanics suppliers. These popular post assemblies provide a robust solution for PPLN crystal mounting.

part #	description	optical height*
PCMO01	PC01 post mount adapter	8mm

\*Optical height to the centre of a 0.5mm thick PPLN crystal

The PCMO01 allows simple and robust alignment with a small footprint and will suit almost any optical height using  $\text{Ø}1/2''$  or  $\text{Ø}1''$  post assemblies widely available at Thorlabs, Newport, CVI Melles Griot, etc. They can also be incorporated into dovetail translation stages for fine adjustment through the PPLN gratings

- PC01 clip kit secured with two nylon tipped grub screws.
- M3 threaded hole.
- Each PCMO01 is supplied with an M3 to M4 thread adapter.

### Example Mounting Solutions

- M3 threaded hole allows fixture to  $\text{Ø}1/2''$  post assemblies
- M3 to M4 thread adapter allows fixture to  $\text{Ø}1''$  post assemblies
- M4 post assemblies can be fixed on to dovetail translation stages for alignment through all available gratings, as well as fine adjustment through a grating aperture

