

PPLN Clip Assembly Instructions

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Covesion supplies its standard PPLN crystals mounted in clips, for ease of use and an added degree of robustness. Covesion cannot take responsibility for the longevity or performance of crystals that have not been mounted by Covesion staff. However, the following instructions outline how customers may use the clips to mount non-Covesion crystals.

The PPLN clip consists of three main components; the clip body, an ITO coated glass spacer, and the clip springs. The components are supplied in two sample boxes. The first contains the clip body with clip springs fitted. The second contains an ITO coated glass spacer, with the ITO surface face down.

To mount a crystal in the clip please follow the guidelines below:

1. Completely remove the clip springs by unfastening the screws.
2. The crystal should then be placed in the clip body, and the ITO coated glass spacer placed on top of the crystal. The ITO coated surface should be in contact with the top surface of the crystal, this reduces any charge build up due to thermal cycling.
3. The clip springs should then be replaced carefully, with equal force being applied via both screws at anyone time. With all the screws tightened there should be sufficient force on the springs to hold both the spacer and crystal in place. Please ensure the crystal is securely held before moving the clip.

The clip is designed to hold crystals that are 10mm wide and 0.5-1.0mm thick, with a length of 1mm, 10mm, 20mm or 40mm depending upon the specific clip used. Attempting to mount crystals of other dimensions will result in damage to the crystal or clip, or may lead to a crystal being insecurely mounted.



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