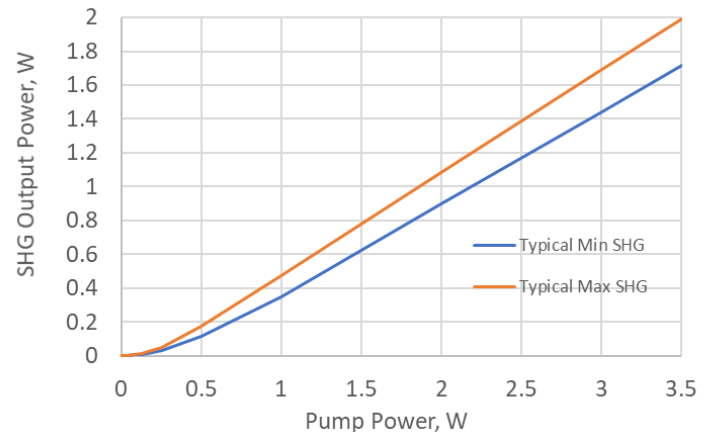


Free space mounted PPLN Chip for CW Second Harmonic Generation (SHG)

Designed for Researchers who need 1-2W output power - a reliable way of SHG for Input wavelengths 1558nm-1562nm. Pre-fitted in a clip mount for direct use with the PV40 Oven.

- Simple to use
- Fits directly into the PV40 Oven
- WG Pre-angled for optical path aligned to the oven
- Flexible over a range of Input powers up to 3.5 W
- Compatible with existing OC2 and OC3 Temperature controllers



Specification

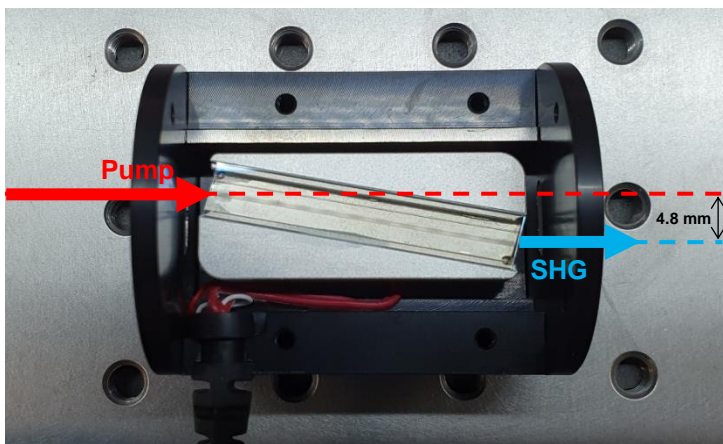
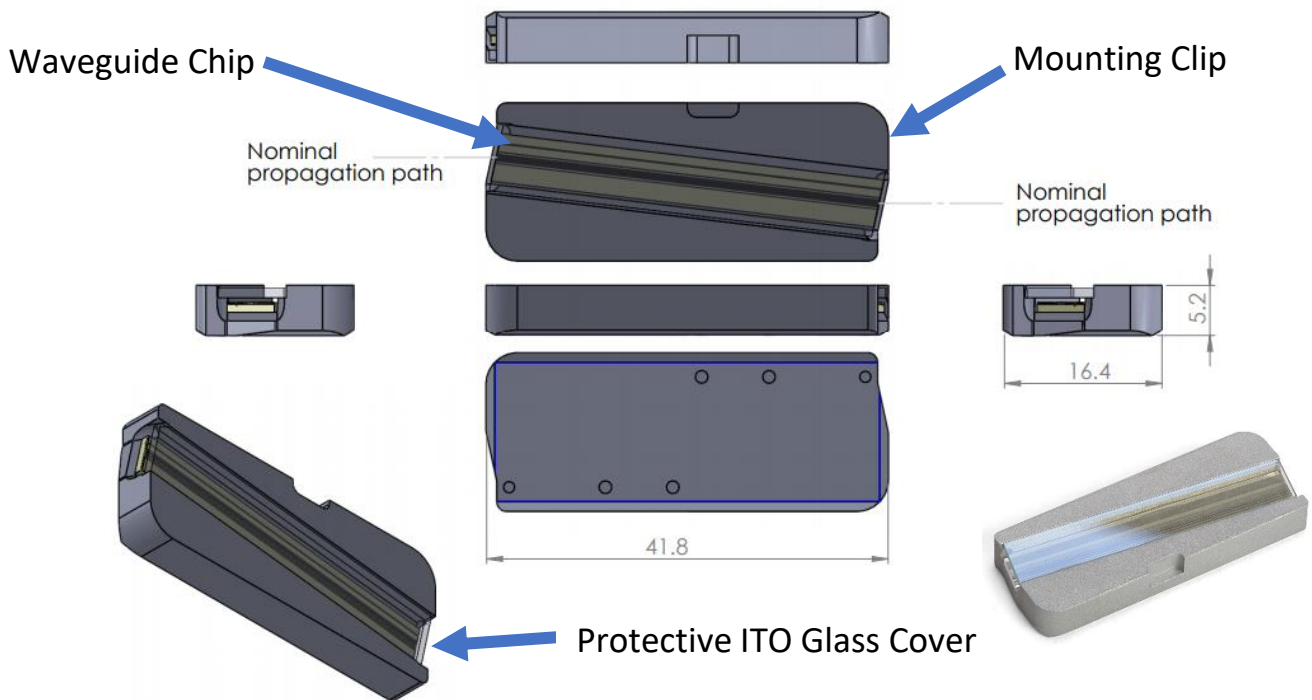
Non-Linear Interaction	Type 0 (ee-e)
Input Polarisation Alignment	<i>e-pol</i> (polarisation axis aligned to the crystal thickness)
Input wavelength range for SHG [nm]	1558-1562
Output wavelength range [nm]	779-781
Phase match temperature between [°C]	30 to 110
Recommended maximum CW pump launch [W]	3.5
CW SHG output @300mW Input [mW]	>35
Module efficiency (@300mW in) [%]	>12
MFD @1560nm (2nd moment) ±20%	x = ~10.0µm y = ~8.8µm
NA @1560nm ±20%	x = ~0.094, y = ~0.113
MFD @780nm (2nd moment) ±20%	x = ~9.9µm y = ~8.3µm
NA @780nm ±20%	x = 0.092, y = 0.085
End-facet AR Coating (Both Facets)	780nm/1560nm Dual Band
Clip Dimension [mm]	42 x 17 x 5
End Facet Angle (Relative to Waveguide Length)	5.35°

*Specifications are representative of typical product performance

Designed for Researchers who need 1-2W output power - a reliable way of SHG for Input wavelengths 1558nm -1562nm

Clip Mounted Waveguide WGCL-1560-40

Version 2.2/2021



Clip Mounted Waveguide in a PV40

The Clip Mounted Waveguide Chip has been designed to offer additional handling protection and simplified optical alignment.

When placed into a Covesion Oven, the angle of waveguide chip in the clip accounts for refraction when coupling into and out of the waveguide, placing the optical axis in-line with the oven.

Accessories

OC3 Temperature Controller

PV40 Oven



Contact us to discuss availability and pricing

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Web www.covesion.com

