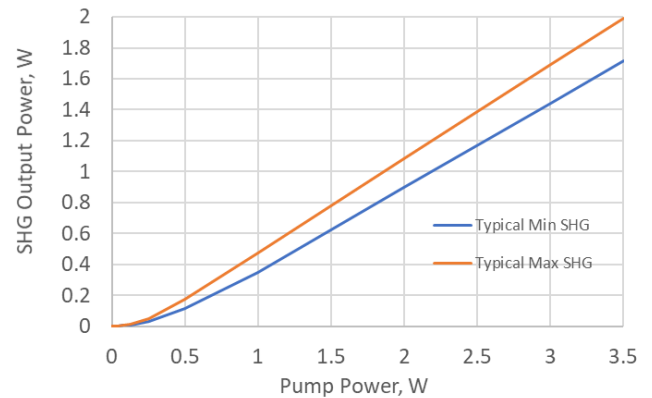


Free space PPLN Chip for CW Second Harmonic Generation (SHG)

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

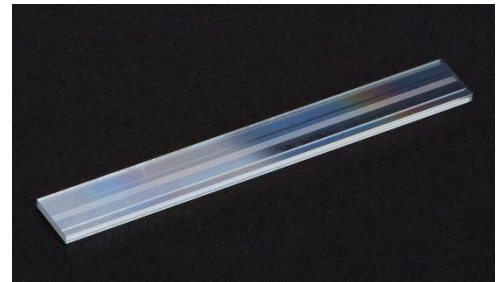
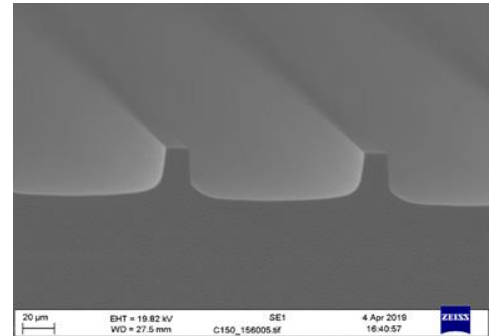
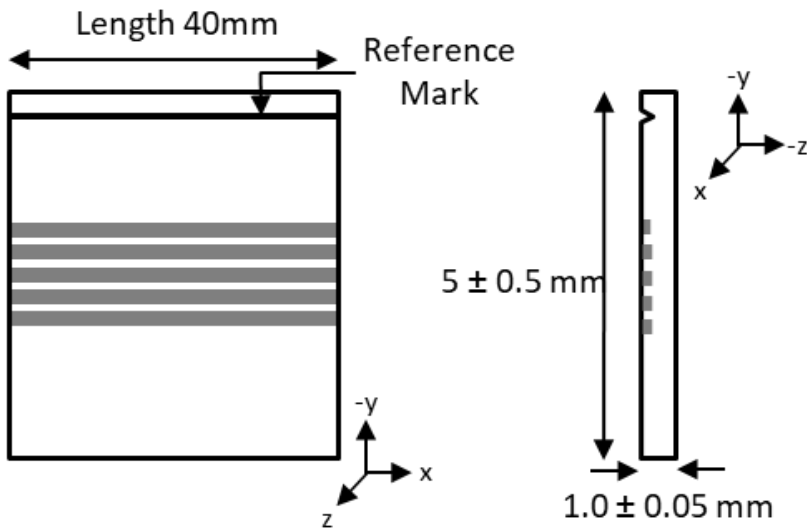
- **Simple to use**
- **Flexible over a range of Input powers up to 3.5 W**
- **Compatible with existing PV40 Oven**
- **Compatible with existing OC2 and OC3 Temperature controllers**



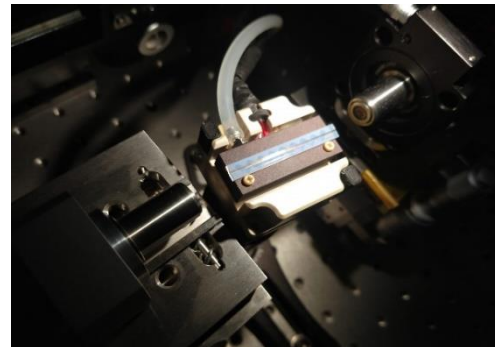
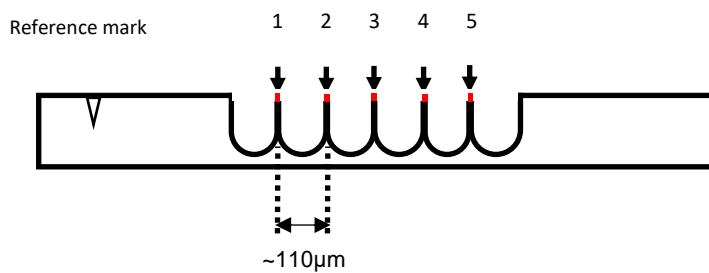
Specification	
Non-Linear Interaction	Type 0 (ee-e)
Input Polarisation Alignment	<i>e-pol</i> (polarisation axis aligned to the crystal thickness)
Input wavelength range for SHG [nm] *	1558-1562
Output wavelength range [nm]*	779-781
Phase match temperature between [°C]	30 to 110
Recommended maximum CW 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
Chip Dimension [mm]	40 x 5 x 1, 5.35° Parallelogram
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



Side view Ridge waveguide



Accessories

OC3 Temperature Controller

PV40 Oven



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