DATA SHEET

Device Specification

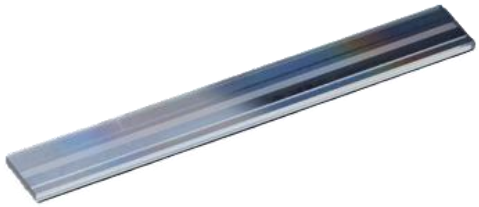
WG-15XX

Version: 5.0/2025

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

Designed for OEM Researchers who need watt level output through a reliable method of SHG generation with C-band sources.

- **A reliable method of C-band pumped SHG**
- **Will also perform SPDC**
- **Simple to use**
- **Compatible with our PPLN ovens and OC3 temperature controller**
- **WG Pre-angled for optical path aligned to the oven**
- **Custom options available**



Specification	
Non-Linear Interaction	Type 0 (ee-e)
Input wavelength range for SHG [nm] (±2nm tuning)	1535-1570
Output wavelength range [nm]	767.5-785
Input Polarisation Alignment	e-pol (polarisation axis aligned to the crystal thickness)
Phase match temperature between [ºC]	30 to 110
Recommended max. CW pump launch [W]	4.5
Typical Output MFD @1560nm (2nd moment) ±20%	x = ~10.0µm y = ~8.8µm
Typical Output NA @1560nm ±20%	x = ~0.094, y = ~0.113
Typical Output MFD @780nm (2nd moment) ±20%	x = ~9.9µm y = ~8.3µm
Typical Output NA @780nm ±20%	x = 0.092, y = 0.085
WG End-facet AR Coating	775nm/1550nm Dual Band
Clip Dimension for 40mm long waveguide [mm]	40 x 5 x 1
End Facet Angle (Relative to Waveguide Length)	5.35º

*Specifications are representative of typical product performance

Contact us to discuss availability and pricing

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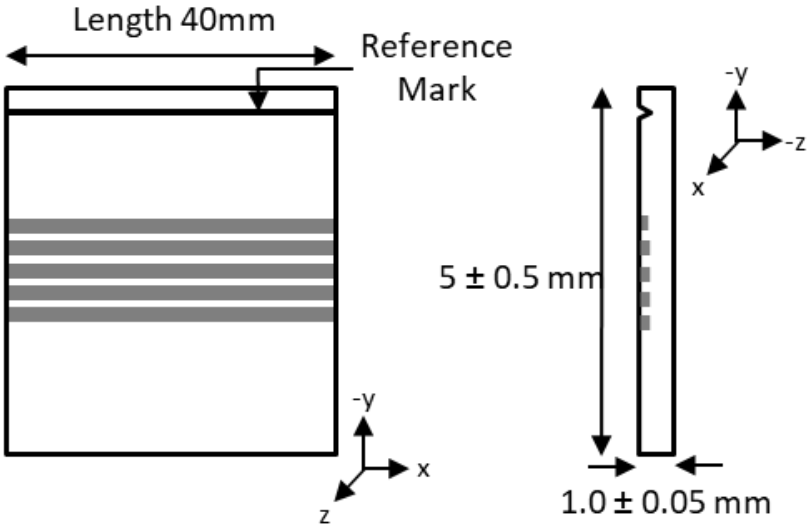
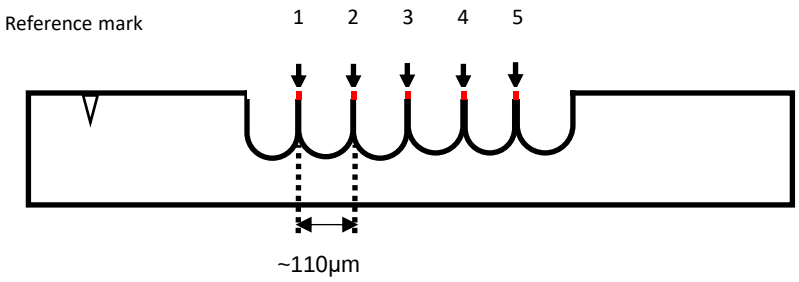


Side view Ridge waveguide



Accessories
OC3 Temperature Controller
PPLN oven

For more information, please contact us at:

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