

Device Specification

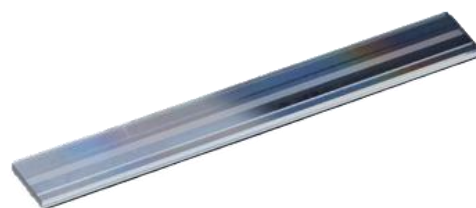
Version: 5.0/2025

WG-15XX

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

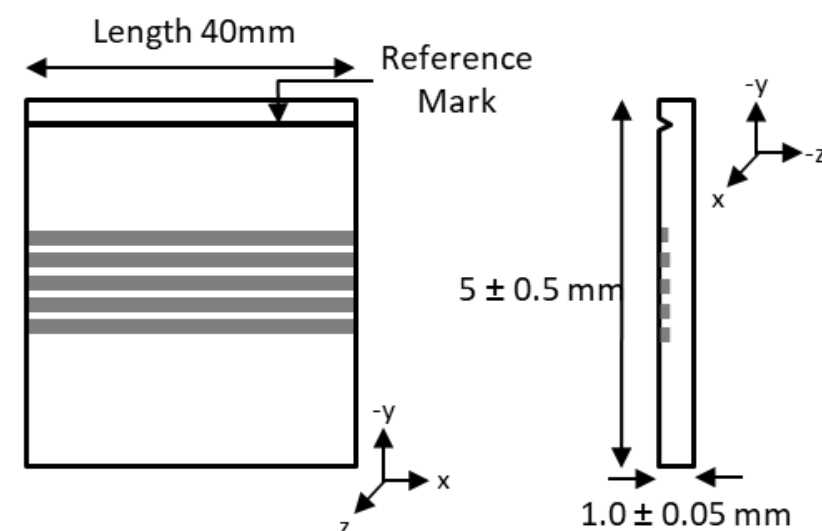
Non-Linear Interaction	Type 0 (ee-e)
Input wavelength range for SHG [nm] (± 2 nm tuning)	1535-1570
Output wavelength range [nm]	767.5-785
Input Polarisation Alignment	e-pol (polarisation axis aligned to the crystal thickness)
Phase match temperature between [$^{\circ}$ C]	30 to 110
Recommended max. CW pump launch [W]	4.5
Typical Output MFD @1560nm (2nd moment) $\pm 20\%$	$x = \sim 10.0\mu\text{m}$ $y = \sim 8.8\mu\text{m}$
Typical Output NA @1560nm $\pm 20\%$	$x = \sim 0.094$, $y = \sim 0.113$
Typical Output MFD @780nm (2nd moment) $\pm 20\%$	$x = \sim 9.9\mu\text{m}$ $y = \sim 8.3\mu\text{m}$
Typical Output NA @780nm $\pm 20\%$	$x = 0.092$, $y = 0.085$
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)	5.35°

*Specifications are representative of typical product performance

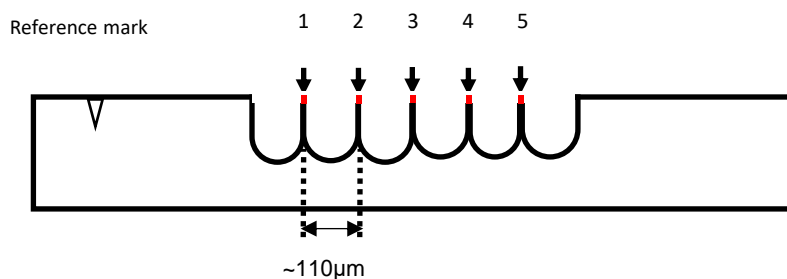
Contact us to discuss availability and pricing

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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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