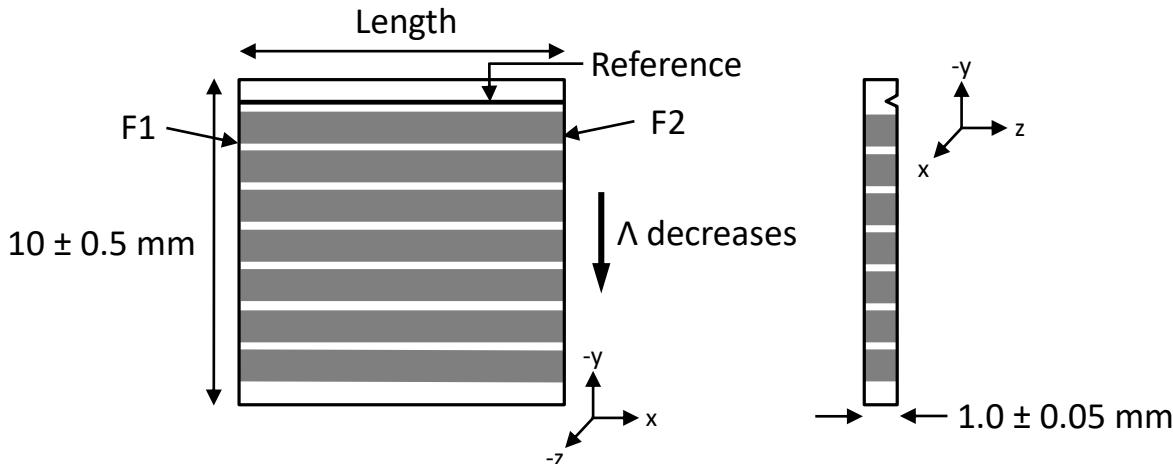


Device Specification

MOPO2-1.0-xx



[Image for reference only. Not to scale.]

Description MgO doped PPLN OPO crystal for 1064nm pump

Thickness(z) 1.0mm± 0.05mm

Width(y) 10mm±0.5mm

Length(x) 50mm±0.5mm, 20mm±0.5mm, 10mm±0.2mm, 5mm±0.1mm, 3mm±0.1mm, 1mm±0.1mm

Periods(Λ) 25.5, 26.0, 26.5, 27.0, 27.5, 28.0, 28.5 μ m

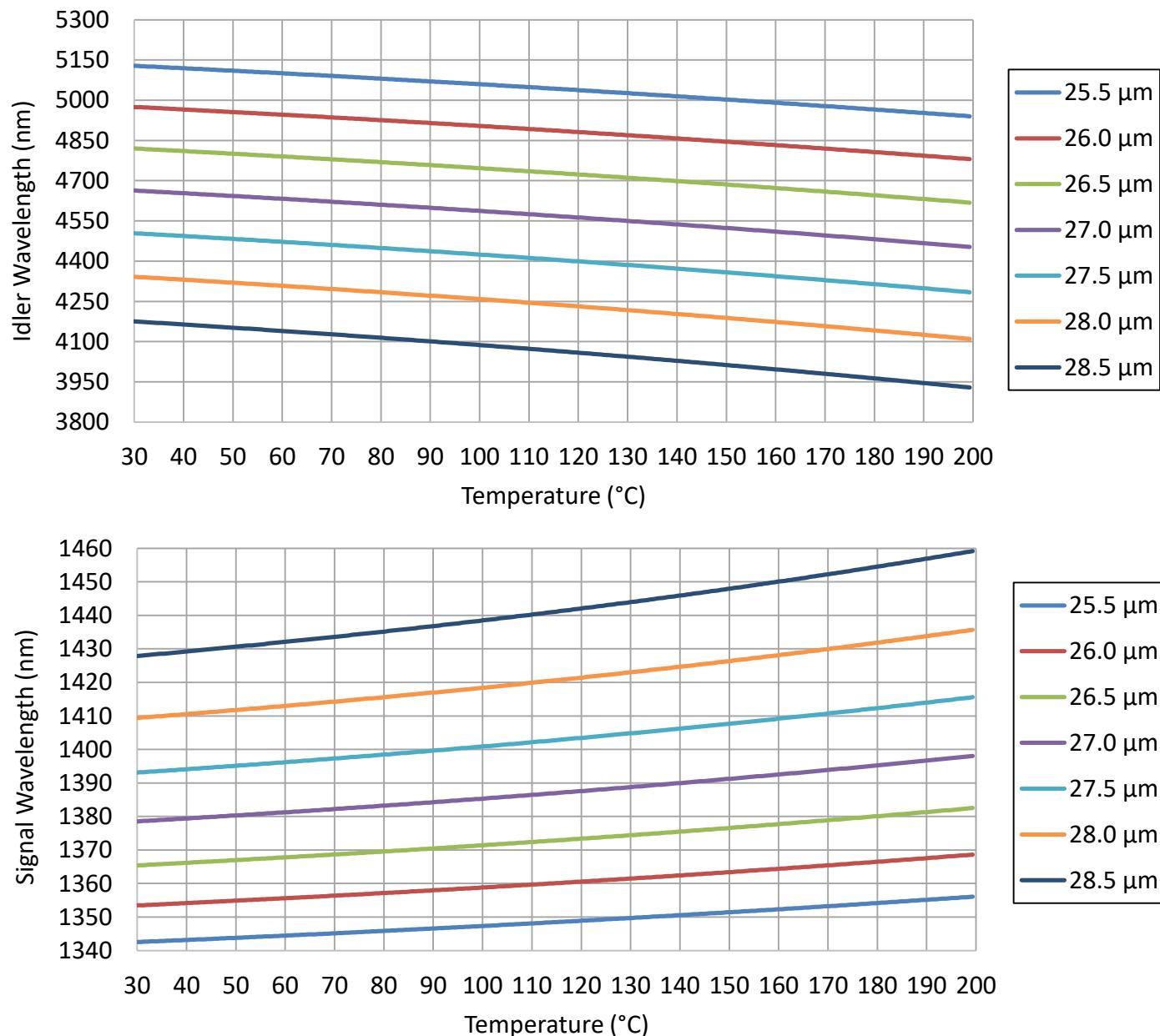
NOTES:

- 1 The OPO device material is Magnesium doped Lithium Niobate with seven periodically poled gratings. Each grating is 1.0mm wide with individual periods as listed above. A saw-cut reference mark is provided on the +z face of the crystal to determine the largest grating period (see above diagram). Each poled grating is separated by 0.05mm wide regions of unpoled material.
- 2 The average mark-to-space ratio of each grating is better than 70:30.
- 3 Each device is etched to make the poled gratings visible. Due to the wet-etch nature of this process the top and bottom surface finish of each device may appear cloudy or uneven.
- 4 Perpendicularity of input/output facets F1 and F2 to gratings is within $\pm 0.15^\circ$. Parallelism between end facets F1 and F2 is within ± 5 minutes.
- 5 Optical finish of facets F1 and F2 is within 20/10 scratch dig with $\lambda/8$ @1064nm. No more than two 100 μ m size chips per end facet.
- 6 AR coated to R<1.5% @ 1064nm (Pump) & to R<1% @1400-1700nm (Signal) & To R~ 2%-4% @ 3800-5150nm (Idler), on both input/output facets.

Device Specification

MOPO2-1.0-xx

OPO Tuning Curve 1064nm Pump



Please note these are calculated tuning curves only and actual values may vary.

For more information, please contact us at: