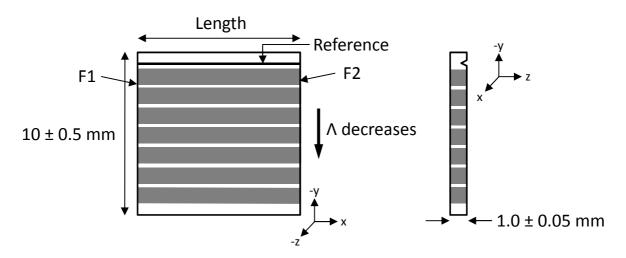
## Device Specification MOPO3-1.0-xx



[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, 40mm±0.5mm, 20mm±0.5mm, 10mm±0.2mm, 5mm±0.1mm, 3mm±0.1mm

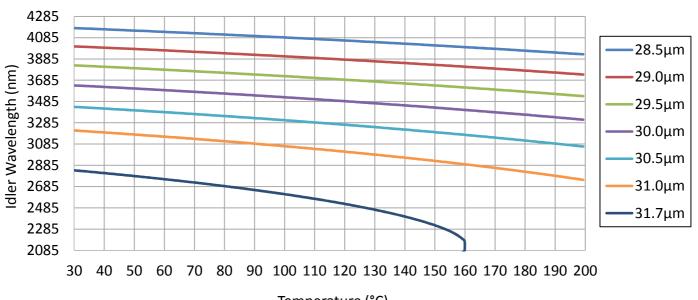
Periods(Λ) 28.5, 29.0, 29.5, 30.0, 30.5, 31.0, 31.7μm

### NOTES:

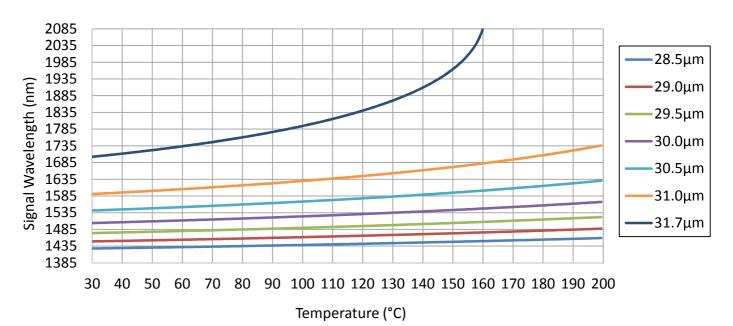
- The OPO device material is Magnesium doped Lithium Niobate with five periodically poled gratings. Each grating is 1.0mm wide with individual periods as listed above. A saw-cut reference mark is provided on the +z face of the crystal to determine the largest grating period (see above diagram). Each 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 ±0.15°. Parallelism between end facets F1 and F2 is within ±5 minutes.
- Optical finish of facets F1 and F2 is within 20/10 scratch dig with  $\lambda/8@1064$ nm. No more than two 100 $\mu$ m size chips per end facet.
- 6 AR coated to R<1.5% @ 1064nm (Pump) & to R<1% @1400-1800nm (Signal) & To R~ 3%-2% @ 2900-4300nm (Idler), on both input/output facets.

# Device Specification MOPO3-1.0-xx

## OPO Tuning Curve 1064nm Pump



## Temperature (°C)



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

For more information, please contact us at:

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