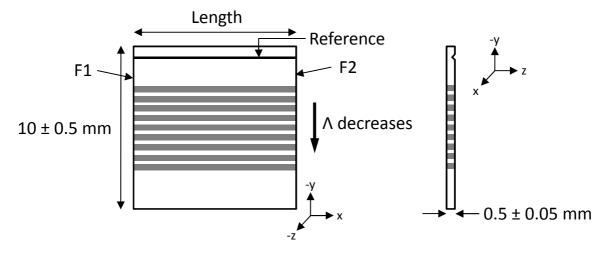
Device Specification MOP01-0.5-xx



[Image for reference only. Not to scale.]

Description MgO doped PPLN OPO crystal for 1064nm pump

Thickness(z) 0.5mm± 0.05mm

Width(y) 10mm±0.5mm

Length(x) 40mm±0.5mm, 20mm±0.5mm, 10mm±0.2mm, 5mm±0.1mm, 3mm±0.1mm, 1mm±0.1mm Periods(Λ) 27.91, 28.28, 28.67, 29.08, 29.52, 29.98, 30.49, 31.02, 31.59μm

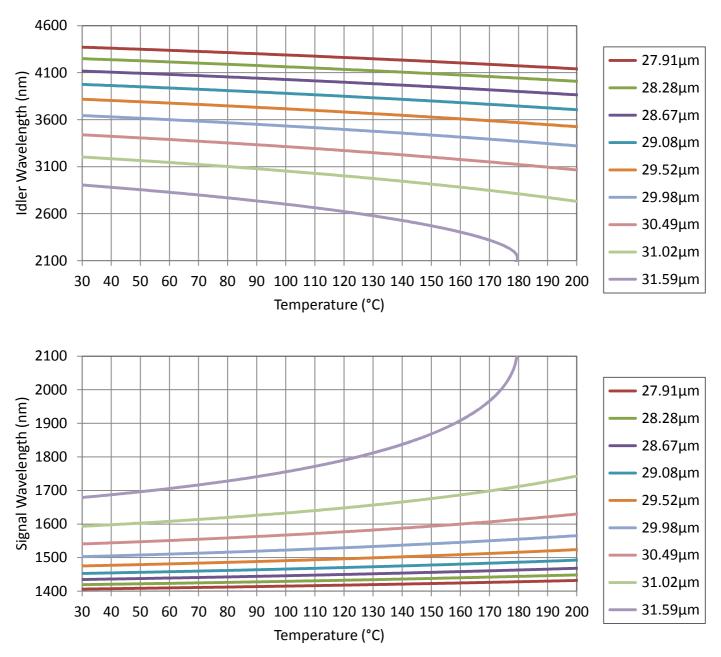
NOTES:

- 1 The OPO device material is Magnesium doped Lithium Niobate with nine periodically poled gratings. Each grating is 0.5mm 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 0.2mm 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.
- 5 Optical finish of facets F1 and F2 is within 20/10 scratch dig with $\lambda/8@1064$ nm. No more than two 100µm size chips per end facet.
- 6 AR coated to R<1.5% @ 1064nm (Pump) & to R<1% @1400-1800nm (Signal) & to R ~6%-3% @ 2600-4800nm (Idler), on both input/output facets.

Device Specification MOP01-0.5-XX

Version 2.6/2013

OPO Tuning Curve 1064nm Pump



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