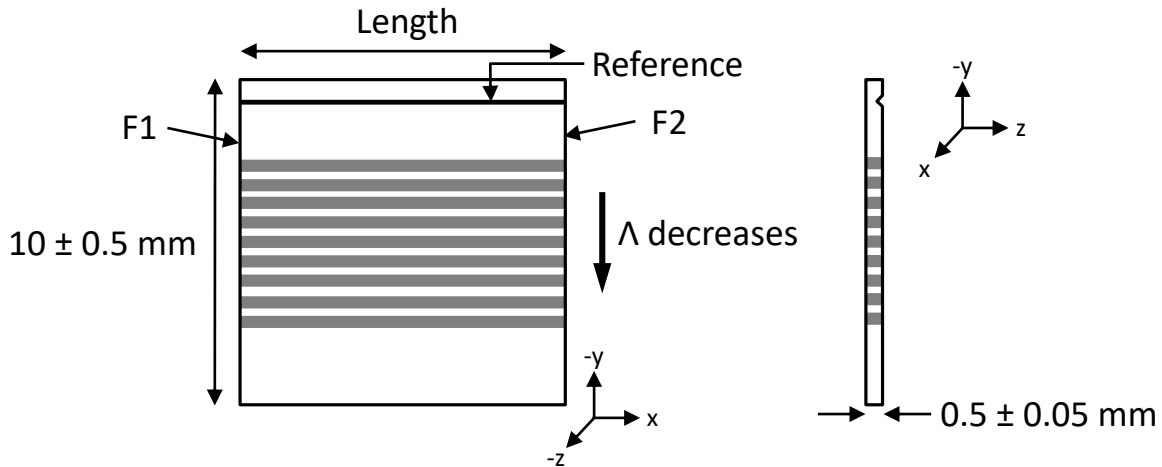


Device Specification

MOPO515-0.5-xx

Version 1.0/2017



[Image for reference only. Not to scale.]

Description MgO doped PPLN OPO crystal for 515nm pump

Thickness(z) $0.5\text{mm} \pm 0.05\text{mm}$

Width(y) $10\text{mm} \pm 0.5\text{mm}$

Length(x) $40\text{mm} \pm 0.5\text{mm}$, $20\text{mm} \pm 0.5\text{mm}$, $10\text{mm} \pm 0.2\text{mm}$, $3\text{mm} \pm 0.1\text{mm}$, $1\text{mm} \pm 0.1\text{mm}$

Periods(Λ) 6.00, 6.26, 6.53, 6.81, 7.10, 7.40, 7.71, 8.03, $8.36\mu\text{m}$

NOTES:

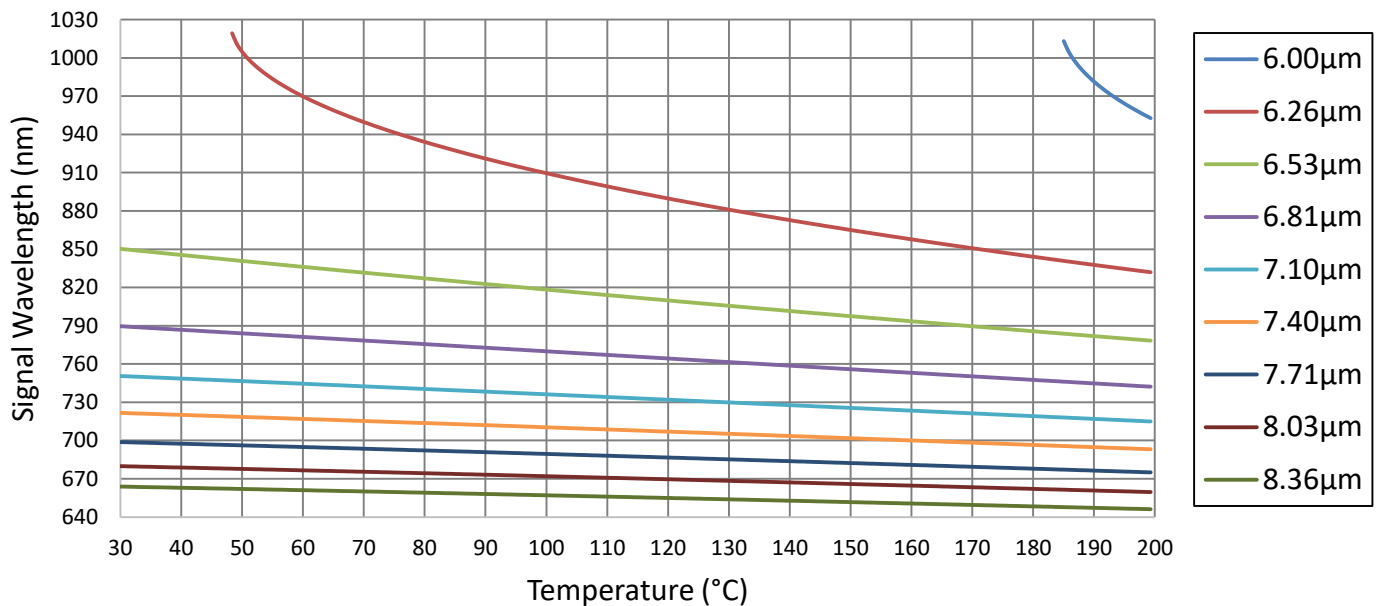
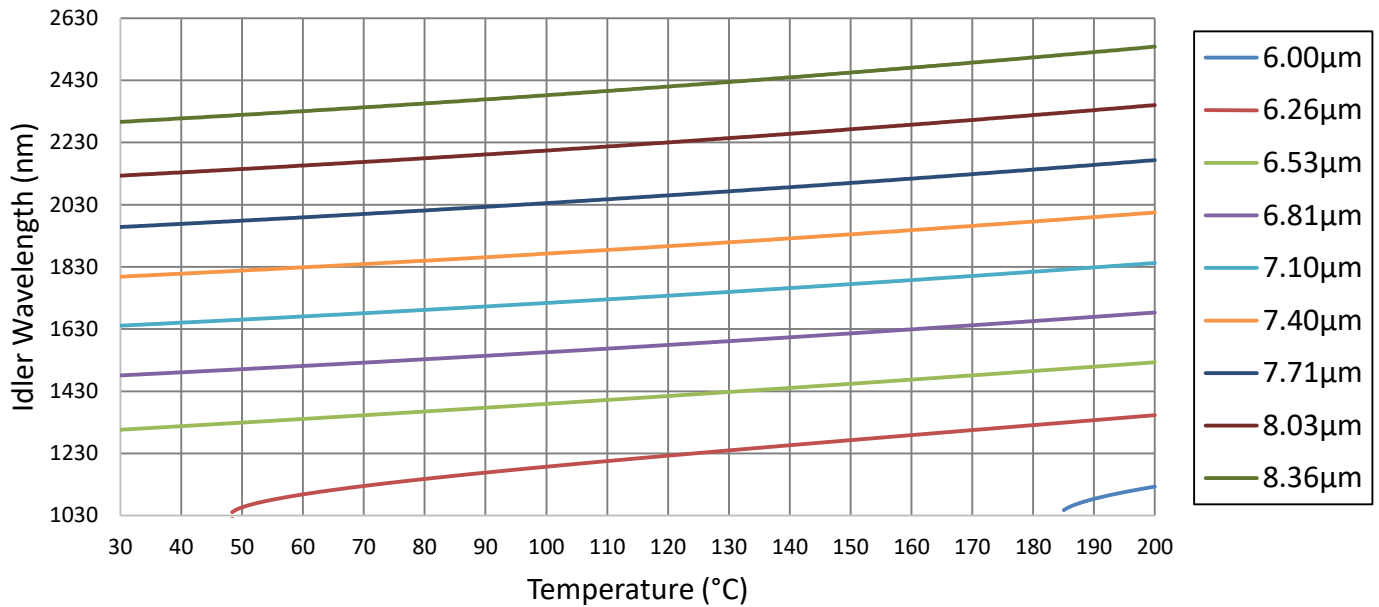
- 1 The OPO device material is Magnesium doped Lithium Niobate with nine periodically poled gratings. Each grating is 0.5mm wide with individual periods as listed above. A saw-cut reference mark is provided on the +z face of the crystal to determine the largest grating period (see above diagram). Each 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 $\pm 0.15^\circ$. 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 $\lambda/8@1064\text{nm}$. No more than two $100\mu\text{m}$ size chips per end facet.
- 6 AR coated to $R < 1\%$ @ 515nm & to $R < 1.6\%$ @ 650-1030nm on both input/output facets.

Device Specification

MOPO515-0.5-xx

Version 1.0/2017

OPO Tuning Curve 515nm Pump



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

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