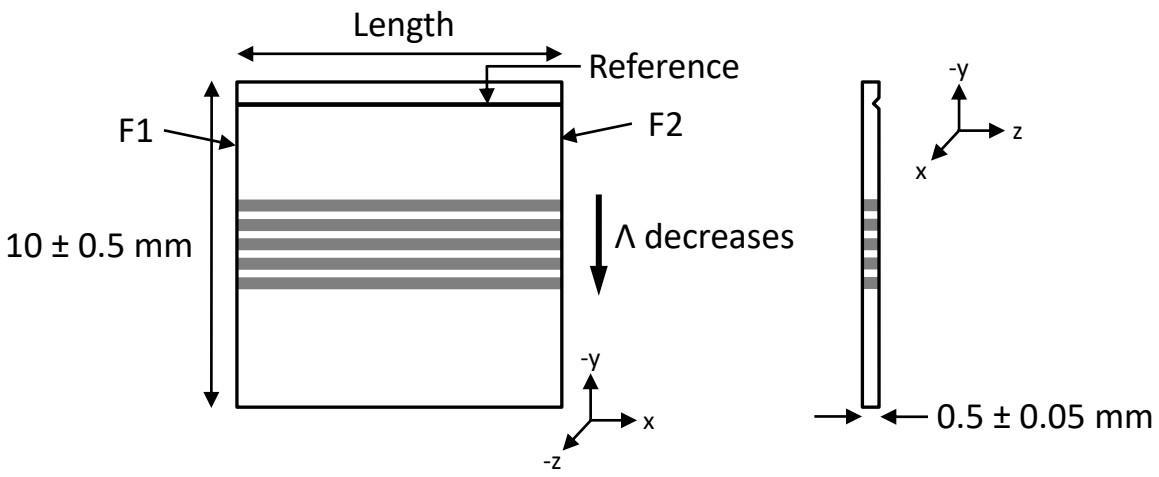
Device Specification

MSHG976-0.5-xx

version 3.0/2020



[Image for reference only. Not to scale.]

Description	MgO doped PPLN SHG crystal for 976nm pump
Thickness(z)	0.5mm±0.05mm
Width(y)	10mm±0.5mm
Length(x)	30mm±0.5mm, 20mm±0.5mm, 10mm±0.2mm, 5mm±0.1mm, 3mm±0.1mm, 1mm±0.1mm
Periods(Λ)	5.17, 5.20, 5.23, 5.26, 5.29µm

NOTES:

1 The SHG device material is Magnesium doped Lithium Niobate with five 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 λ/8@1064nm. No more than two 100µm size chips per end facet.

6 Dual coating to less than R<1% at 488 & 976nm on both input/output facets.

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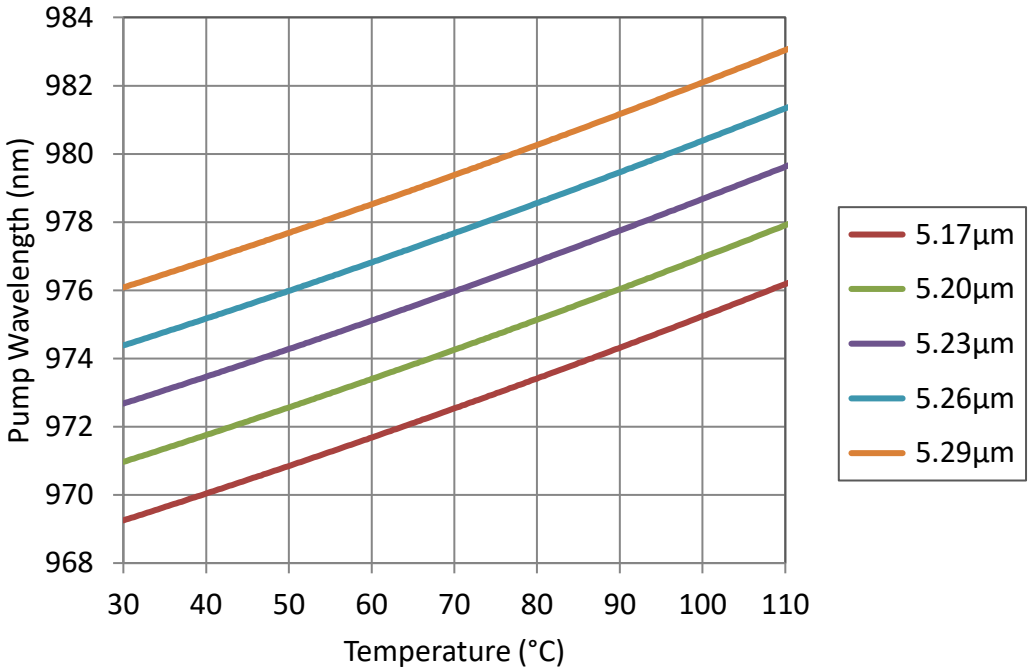

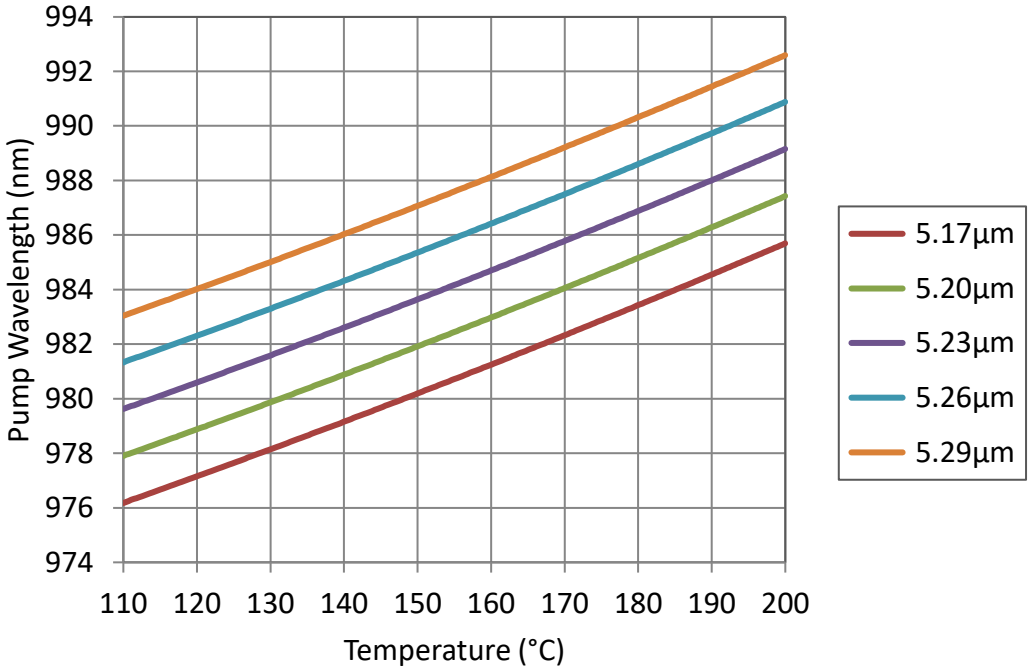

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