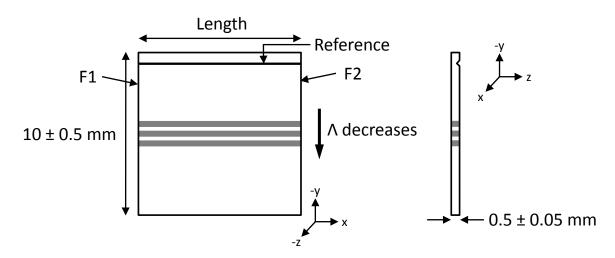
## Device Specification MSFG626-0.5-xx



[Image for reference only. Not to scale.]

Description MgO doped PPLN SFG crystal for 1051nm and 1551nm pump, 626nm SFG

Thickness(z) 0.5mm±0.05mm

Width(y) 10mm±0.5mm

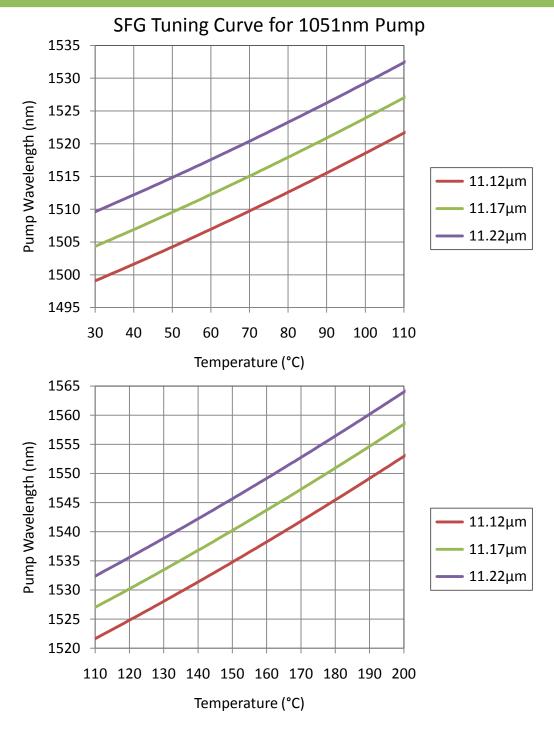
Length(x) 20mm±0.5mm, 3mm±0.1mm, 1mm±0.1mm

Periods(Λ) 11.12, 11.17, 11.22μm

## **NOTES:**

- 1 The SFG device material is congruently grown MgO doped Lithium Niobate with three 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.
- Optical finish of facets F1 and F2 is within 20/10 scratch dig with  $\lambda/4@633$ nm. No more than two 100 $\mu$ m size chips per end facet.
- 6 Triple band AR coating to less than R<1% at 626nm, 1051nm, 1551nm on both input/output facets.

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

For more information, please contact us at:

Sintec Optronics http://www.sintec.sg sales@sintec.sg