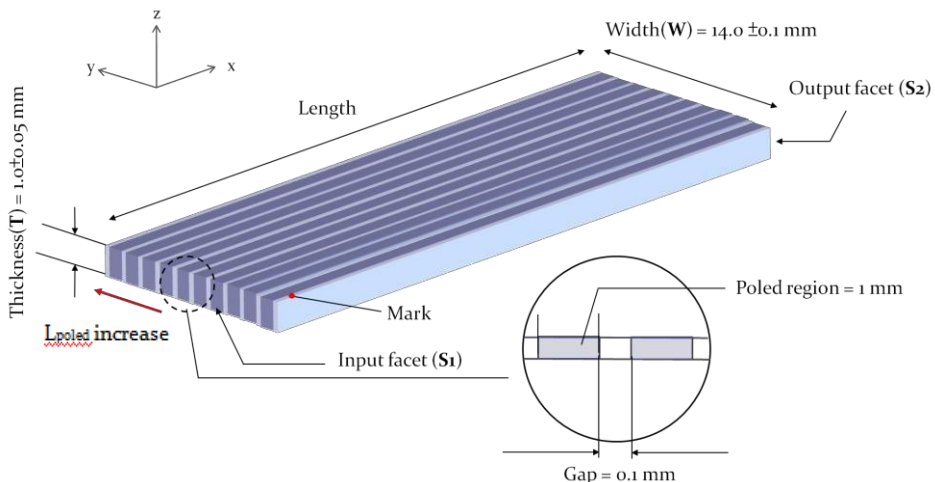


- Chip Lay-Out

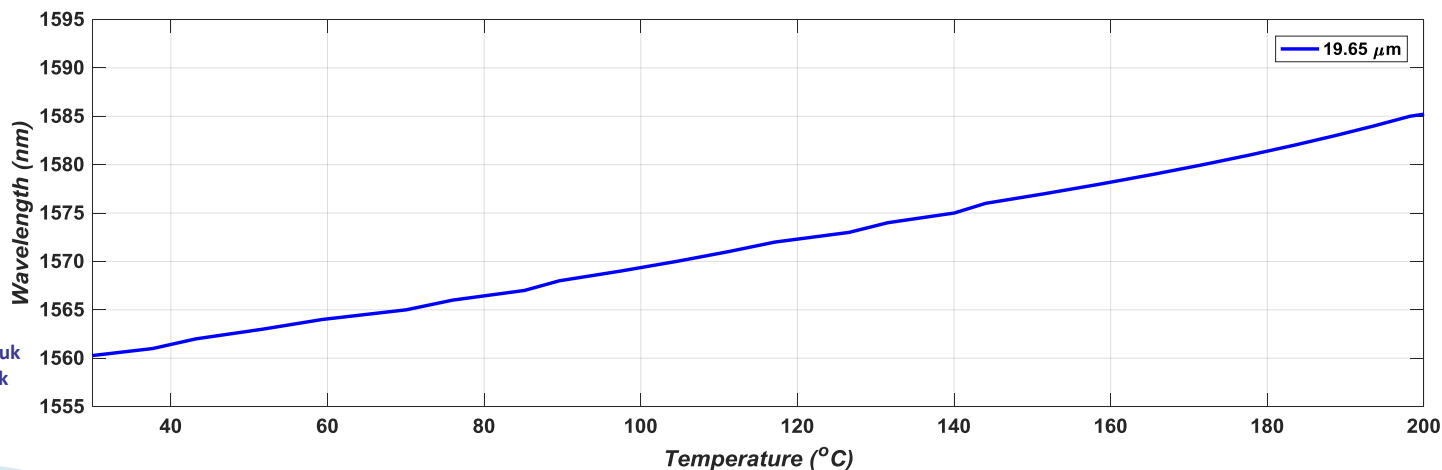


[Image for reference only. Not for scale.]

| Items | Properties | Inspection |
|-----------------------------------|--|-------------------|
| Material | 5 mol.% MgO:LN | NA |
| Period ($\Lambda, \mu\text{m}$) | 19.65~19.65 | Microscope |
| Main Function | Second Harmonic Generation | NA |
| Parallelism/Perpendicularity | $\leq 5' / 21'$ | Autocollimator |
| Flatness | $\leq \lambda / 6$ ($\lambda = 633\text{nm}$) | Interferometer |
| Scratch/Dig | $\leq 20 / 10$ | Microscope |
| Optical Coating (S1/S2 facets) | S1/S2 @750~810 ($R < 0.5\%$) /1500~1620 ($R < 0.5\%$) nm | Spectral Analyzer |
| Aperture Size | 14.0 x 1.0 mm ² (W x T) | Cutting Machine |
| Available Length [*] | Poled length (L_{poled}) from 0.1mm to 1mm and step 0.1mm | |
| Channel Clear Aperture | $\geq 80\%$ (T), $\geq 90\%$ (W) | NA |

*1 Refer to length of periodically poled. Physical length is 1.0 ± 0.1 mm.

- Phase Matching Tuning Curve



Photonic Solutions Ltd
 Tel: 0131 664 8122
 Fax: 0131 449 7301
 Email: sales@photonicsolutions.co.uk
 Web: www.photonicsolutions.co.uk