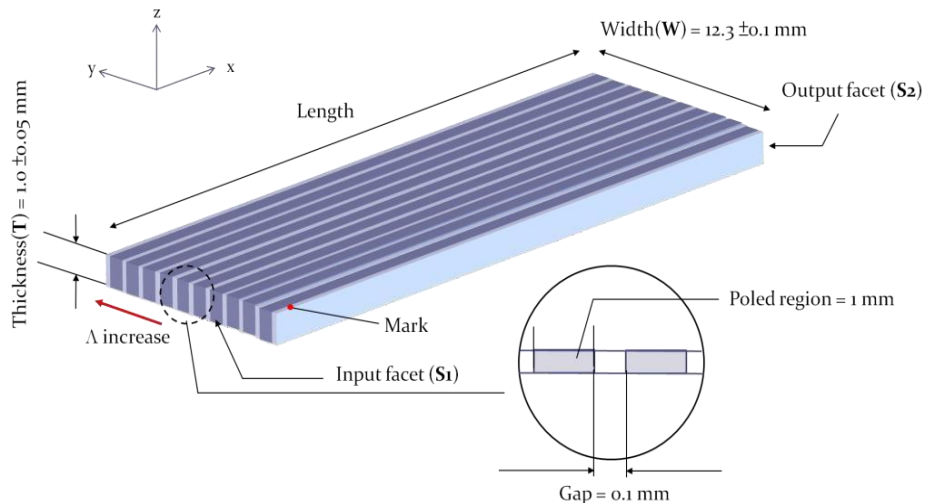


### - Chip Lay-Out



[Image for reference only. Not for scale.]

Items	Properties	Inspection
Material	5 mol.% MgO:LN	NA
Period ( $\Lambda, \mu\text{m}$ )	18.45, 18.65, 18.85, 19.05, 19.25, 19.45, 19.65, 19.85, 20.05, 20.25	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 ( $S_1/S_2$ facets)	$S_1/S_2$ @750-810 ( $R < 0.5\%$ ) /1500-1620 ( $R < 0.5\%$ ) nm	Spectral Analyzer
Aperture Size	$12.3 \times 1.0 \text{ mm}^2$ (W x T)	Cutting Machine
Available Length	$10/25/50 \pm 0.2 \text{ mm}$	
Channel Clear Aperture	$\geq 80\%$ (T), $\geq 90\%$ (W)	NA

### - Phase Matching Tuning Curve

