

LiNbO₃ CRYSTAL

WISOPTIC Capabilities of LiNbO₃

- Various sizes of finished components for different applications.
- Strict quality control
- Reliable delivery
- Very competitive price
- Technical support

WISOPTIC Standard Specifications* of LiNbO₃

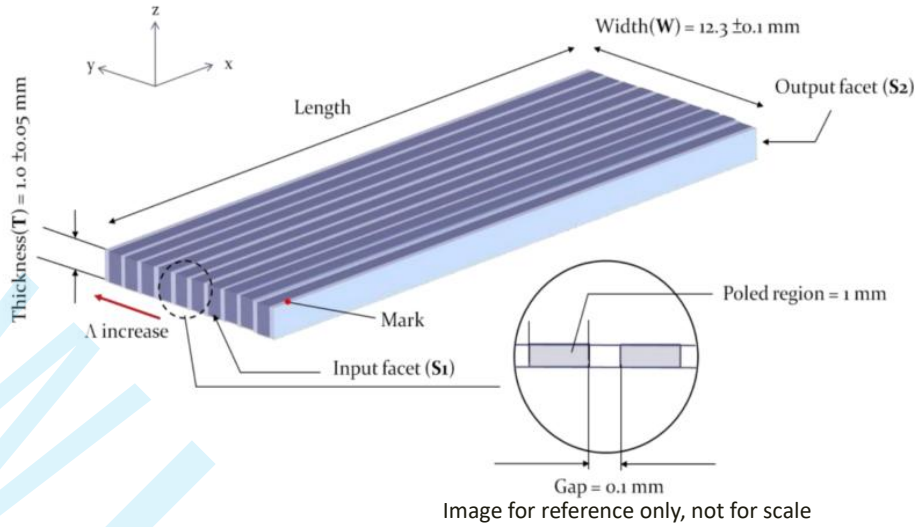
Dimension Tolerance	± 0.1 mm
Angle Tolerance	± 0.5°
Flatness	< $\lambda/8$ @ 632.8 nm
Surface Quality	< 20/10 [S/D]
Parallelism	< 20"
Perpendicularity	≤ 5'
Chamfer	≤ 0.2mm @ 45°
Transmitted Wavefront Distortion	< $\lambda/4$ @ 632.8 nm
Clear Aperture	> 90% central area
Coating	AR coating: R < 0.2% @ 1064 nm, R < 0.5% @ 532 nm

* Products with special requirement upon request.

CONTACT **WISOPTIC** FOR THE BEST SOLUTION FOR YOUR APPLICATION OF **LiNbO₃** CRYSTALS.

PP-LiNbO₃ & PP-MgO:LiNbO₃

Chip Lay-out



Main Specifications

Items	Properties	Inspection
Material	5 mol.% MgO:LN	NA
Period (Λ , μm)	18.20, 18.50, 18.80, 19.10, 19.40, 19.70, 20.00, 20.30, 20.60, 20.90	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 x 1.0 mm ² (W x T)	Cutting Machine
Available Length	10/25/50 ± 0.2 mm	
Channel Clear Aperture	≥ 80% (T), ≥ 90% (W)	NA

Phase Matching Tuning Curve

