

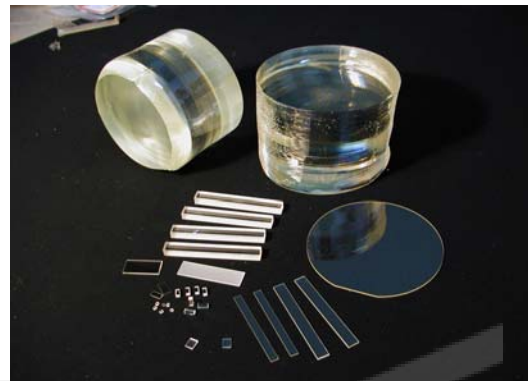


**We are committed to the supply of all types of substrate wafers to the microelectronics industry**

## Optical Grade Lithium Niobate Wafers

Our abundance experience at growing and mass production for Optical grade Lithium Niobate. We are equipped with advanced facilities at Crystal growing, wafer lapping, polishing and checking, all finished products are passed at Testing of curie Temp and QC inspection.

All the wafers are under strict quality control and inspected. And also under the strict surface cleaning and flatness control as well.



### General Specifications list:

Material	Optical Grade LiNbO3 wafes (White or Black)	
Curie Temp	1142±2.0°C	
Cutting Angle	X/Y/Z etc	
Diameter/size	2" /3" /4"	
Tol(±)	<0.20 mm	
Thickness	0.18 ~ 0.5mm or more	
Primary Flat	16mm/22mm /32mm	
TTV	<3μm	
Bow	-30<bow<30	
Warp	<40μm	
Orientation Flat	All available	
Surface Type	Single Side Polished /Double Sides Polished	
Polished side Ra	<0.5nm	
S/D	20/10	
Edge Criteria	R=0.2mm or Bullnose	
Optical doped	Fe/Zn/MgO etc for optical grade LN&LT wafers	
Wafer Surface Criteria	Refractive index	No=2.2878/Ne=2.2033 @632nm wavelength
	Contamination,	None
	Particles φ >0.3 μ m	<= 30
	Scratch , Chipping	None
	Defect	No edge cracks, scratches, saw marks, stains
Packaging	Qty/Wafer box	25pcs per box

### Application list:

Integrated waveguide photonics; Wave Guide Lasers; Quasi-phase Matching for SHG&OPO; EO waveguide Phase & Amplitude Modulators

### HANGZHOU FREQCONTROL ELECTRONIC TECHNOLOGY LTD.

Head office : # 1106, Crystal International Business Center(CIBC), No.198  
Wuxing Rd ,Qianjiang new city Hangzhou, P.R.China Post code: 310006  
TEL: 0086-571-85803723 85803731 85803732 FAX: 0086-571-85803724  
E-mail: sales@csimc-freqcontrol.com [thwu@mail.hz.zj.cn](mailto:thwu@mail.hz.zj.cn)

