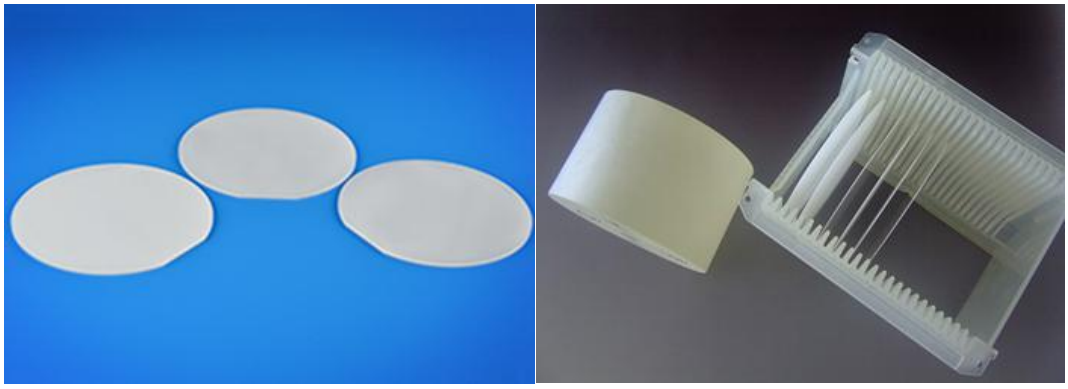
Optical grade LiNbO3 wafers

The **Optical grade LiNbO3 wafers/crystals/substrates** are offered, advanced facilities are equipped for crystals growing, wafer cutting, lapping, polishing and checking. The LiNbO3 wafers are used in:

- **Polarizers for Optic Isolators;**
- **Integrated Waveguide Photonics;**
- **EO Waveguide Phase Modulators**
- **EO Waveguide Amplitude Modulators**
- **Quasi-phase Matching for SHG and OPO**



Optical grade LiNbO3 wafers of X-cut and Z-cut

Orientation	X-cut±0.2°	Z-cut±0.2°
Diameter	76.2mm±0.3mm 100.0mm±0.3mm	76.2mm±0.3mm 100.0mm±0.3mm
Orientation Flat(OF)	22mm±2mm 32mm±2mm Perpendicular to X±0.2°	22mm±2mm 32mm±2mm Perpendicular to X±0.2°
Second Refer Flat(RF)	Cw225° ±0.5° from OF Cw315° ±0.5° from OF	Cw225° ±0.5° from OF Cw270° ±0.5° from OF
Thickness	500μm±5μm 1000μm±5μm	500μm±5μm 1000μm±5μm
Surface quality	Double sides polished S/D 20/10	Double sides polished S/D 20/10
TTV	≤10μm	
WARP	≤50μm	
Curie Temperature	1142℃±0.7℃	
Refractive Index	n0=2.2878±0.0002 ne=2.2033±0.0002 prism coupler method @632.8nm	
Edge Beveling	Edge rounding	

Note: The other size or type of LiNbO substrates or wafers are available upon customer's request.

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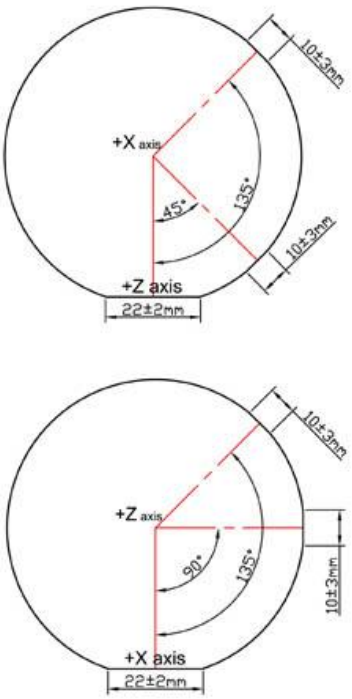

Notes:
1.Material
Optical grade $LiNbO_3$
2.Curie Temperature
1142±3 °C
3.Orientation
2.1 Wafer surface direction :±0.2°
2.2 Flats
2.2.1 Primary flat: ±0.2° lenght: 22±2mm
2.2.2 Secondary flat and third flat see the left lenght:10±3mm
4.Edge
No chips greater than 0.5mm
5.Thickness
1.0±0.02mm
6.Diameter
76.2±0.3mm
7.Surface
Double side polished, no pits or scratches inspected using unaided eye with reflected light.

Drawing		Product	Optical-Grade LN Wafer
Approved		Spec	
Date	04/13/15		
Sheet	1 of 1		

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