

Lithium Niobate Wafer

(LiNbO₃ SAW Grade)

SAW Grade Lithium Niobate Wafers

Lithium Niobate (LN) is a ferroelectric material with excellent electro-optic, nonlinear, and piezoelectric properties. Lithium niobate crystals are important materials for optical waveguides, mobile phones, piezoelectric sensors, optical modulators and various other linear and non-linear optical applications.

Product Parameters

| | | |
|-------------------------------|--|--|
| Material | LiNbO₃ wafers (White or Black) | |
| Curie Temp | 1142±2.0°C | |
| Cutting Angle | X/Y/Z/Y36/Y41/Y64/Y128/etc | |
| Diameter/size | 3"/4"/6"LN wafer & 8" is under Development | |
| Tol(±) | <0.20 mm | |
| Thickness | 0.18 ~ 0.5mm or customer specific | |
| Primary Flat | 22mm /32mm /42.5mm /57.5mm | |
| LTV (5mmx5mm) | <1µm | |
| TTV | <3µm | |
| Bow | -30<bow<30 | |
| Warp | <40µm | |
| PLTV(<0.5um) | ≥95%(5mm*5mm) | |
| Orientation Flat | All available | |
| Surface Type | Single Side Polished /Double Side Polished | |
| Polished side Ra | <0.5nm | |
| Back Side Criteria | General is 0.2-0.5µm or as customized | |
| Edge Criteria | R=0.2mm or Bullnose | |
| Wafer Surface Criteria | Transmissivity | general:5.9×10 ⁻¹¹ <s<2.0*10 ⁻¹⁰ at 25°C |
| | Contamination, | None |
| | Particles φ >0.3 µ m | <= 30 |
| | Scratch , Chipping | None |
| | Defect | No edge cracks, scratches, saw marks, stains |

Please contact us for customer specific requirements and questions