

# Lithium Tantalate Wafer

## ( LiTaO<sub>3</sub> Optical Grade)

Lithium tantalate (LiTaO<sub>3</sub>) crystal exhibits remarkable optical properties, making it a versatile material in the field of optics. With excellent optical transparency across a broad spectral range from ultraviolet to infrared, lithium tantalate is well-suited for various optical applications. Low pass filters of Digital Camera in high end models/ holographic components for DVD pick up Optical communications; optical switches and modulators/ Gyro sensors Laser wavelength converter, generating Blue and Green lasers/ by using SHG techniques (Displays, medical, and environmental purposes)

### Product Parameters

<b>Material</b>	<b>LiTaO<sub>3</sub> wafers (White or Black)</b>	
<b>Curie Temp</b>	603±2°C	
<b>Cutting Angle</b>	X/Y/Z etc	
<b>Diameter/size</b>	2"/3"/4" LT wafer	
<b>Tol(±)</b>	<0.20 mm	
<b>Thickness</b>	0.18 ~ 0.5mm or customer specific	
<b>Primary Flat</b>	16mm/22mm /32mm	
<b>TTV</b>	<3µm	
<b>Warp</b>	<40µm	
<b>Surface Type</b>	Single Side Polished /Double Side Polished	
<b>Polished side Ra</b>	<0.5nm	
<b>Back Side Criteria</b>	General is 0.2-0.5µm or as customized	
<b>Edge Criteria</b>	R=0.2mm or Bullnose	
<b>Optical doped</b>	Zn/MgO etc	
<b>Wafer Surface Criteria</b>	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