

# Lithium Tantalate Wafer

## ( LiTaO3 SAW Grade)

Lithium Tantalate (LiTaO3) crystals and substrates are highly valued for their exceptional surface wave applications, making them indispensable in various industries. With its perovskite M6 crystal structure, LiTaO3 exhibits a unique combination of optical, piezoelectric, and pyroelectric properties, rendering it ideal for surface wave technology

### Product Parameters

<b>Material</b>	<b>LiTaO3 wafers (White or Black)</b>	
<b>Curie Temp</b>	603±2°C	
<b>Cutting Angle</b>	X/Y/Z/X112Y/Y36/Y42/Y48/etc	
<b>Diameter/size</b>	3"/4"/6" LT wafer	
<b>Tol(±)</b>	<0.20 mm	
<b>Thickness</b>	0.18 ~ 0.5mm or customer specific	
<b>Primary Flat</b>	22mm /32mm /42.5mm /57.5mm	
<b>LTV (5mmx5mm)</b>	<1µm	
<b>TTV</b>	<3µm	
<b>Bow</b>	-30<bow<30	
<b>Warp</b>	<40µm	
<b>PLTV(&lt;0.5um)</b>	≥95%(5mm*5mm)	
<b>Orientation Flat</b>	All available	
<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 customized	
<b>Edge Criteria</b>	R=0.2mm or Bullnose	
<b>Wafer Surface Criteria</b>	Transmissivity	general:5.9x10 <sup>-11</sup> <s<2.0*10 <sup>-10</sup> 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