

# Doped Lithium Tantalate Wafer

Our partners abundance experience at growing and mass production for SAW grade Lithium Tantalate. They 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.

Their R&D is active at developing and researching from new material to finished products at all kind of Fe doped wafers & electronic components.

## Product Parameters

Material	LiTaO3 wafers Fe doped (White or Black )	
Curie Temp	603±2°C	
Cutting Angle	X/Y/Z/X112Y/Y36/Y42/Y48/etc	
Diameter/size	3"/4"/6" LT wafer	
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 customized	
Edge Criteria	R=0.2mm or Bullnose	
Fe doped	Fe doped for saw grade LN< wafers	
Wafer Surface Criteria	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