

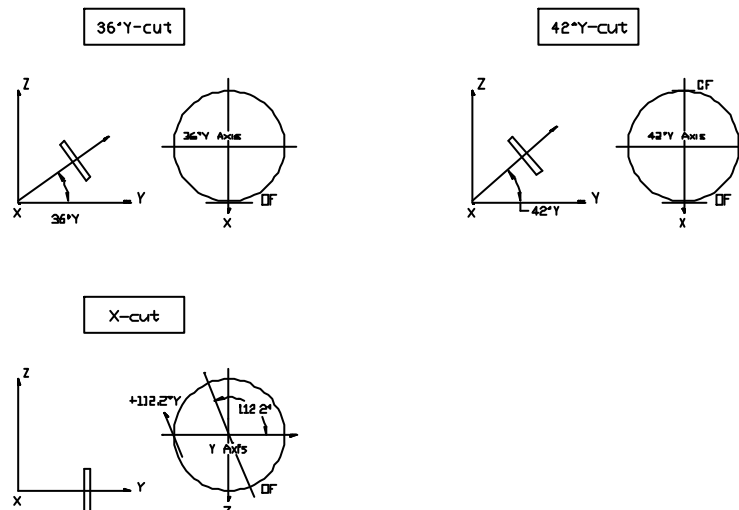
Wafers for Surface Acoustic Wave Devices LiTaO₃ (LT) Wafers

3" LiTaO₃ (LT) Wafers

Characteristics	Unit	36° Y-cut	42° Y-cut	X-112° Y Cut
Orientation *	°	36° Y ± 0.3°	42° Y ± 0.3°	X ± 0.3°
Diameter *	mm	∅ 76.2 ± 0.5	∅ 76.2 ± 0.5	∅ 76.2 ± 0.5
Reference Flat (OF)	mm	22 ± 2 Parallel to: X ± 18'	22 ± 2 Perpendicular to: X ± 18'	22 ± 2 Parallel to: 112.2°Y ± 18'
Reference Flat (CF)	mm	None	10 ± 3 180° clockwise to OF ± 1.0°	None
Thickness	mm	0.50 ± 0.03 0.35 ± 0.03	0.50 ± 0.03 0.35 ± 0.03	0.50 ± 0.03 0.35 ± 0.03
Surface Polish	-	Mirror Polished	Mirror Polished	Mirror Polished
Back Ground	-	GC#1000 Lapped & Etched	GC#1000 Lapped & Etched	GC#1000 Lapped & Etched
Bowing	μm	20 max		
TTV	μm	10 max		
Edge Bevel	-	Edge Rounding (θ=22° R=0.15mm or R=0.20mm)		
Poling	-	Complete		
Curie Temperature	°C	605.0 ± 3.0		

* Other requirement available upon request.

Orientation and Shape of LT Wafers



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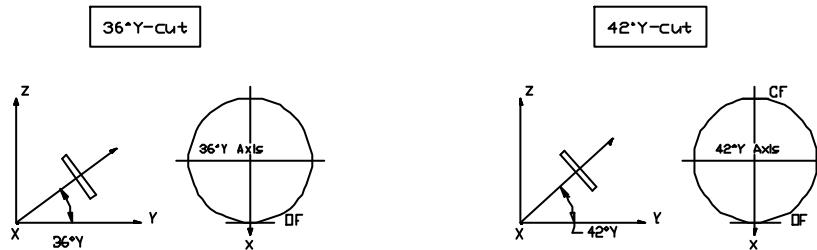
LiTaO₃ (LT) Wafers

4" LiTaO₃ (LT) Wafers

Characteristics	Unit	36° Y-cut	42° Y-cut
Orientation *	°	36° Y ± 0.3°	42° Y ± 0.3°
Diameter *	mm	∅ 100.0 ± 0.7	∅ 100.0 ± 0.7
Reference Flat (OF)	mm	32 ± 2 Parallel to: X ± 18'	32 ± 2 Perpendicular to: X ± 18'
Reference Flat (CF)	mm	None	12 ± 3 180° clockwise to OF ± 1.0°
Thickness	mm	0.50 ± 0.03 0.35 ± 0.03	0.50 ± 0.03 0.35 ± 0.03
Surface Polish	-	Mirror Polished	Mirror Polished
Back Ground	-	GC#1000 Lapped & Etched	GC#1000 Lapped & Etched
Bowing	μm	40 max	
TTV	μm	18 max	
Edge Bevel	-	Edge Rounding(θ=22° R=0.15mm or R=0.20mm)	
Poling	-	Complete	
Curie Temperature	°C	605.0 ± 3.0	

* Other requirement available upon request.

Orientation and Shape of LT Wafers



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