

	Item	unit	2-inch		4-inch			6-inch			
			Standard	Option	Standard	Option-1	Option-2	Standard	Option-1	Option-2	
Single Crystal	Purity	%	>99.996								
Orientation	Surface Orientation	-	c (0001) also available a(11-20) m(10-10) R(-1012)								
	Misorientation	degree	0.2	As per request	0.2	As per request	As per request	0.2	As per request	As per request	
	Tolerance	degree	±0.10	<±0.05	±0.10	<±0.05	<±0.05	±0.10	<±0.05	<±0.05	
Dimensions	Thickness	µm	430	430	650	>650	>650	1000	>1000	>1000	
	Tolerance	µm	±25	±15	±25	±15	±15	±25	±15	±15	
	Diameter	mm	50.80		100.00			150.00			
	Tolerance	mm	±0.25	±0.10	±0.25	±0.10	±0.10	±0.10	±0.10	±0.10	
Orientation Flat	Primary Flat	-	a (11-20) a (11-20)								
	Tolerance	degree	±0.3								
	Primary Flat Length	mm	16.0		32.5			47.5			
	Tolerance	mm	±1.0	±1.0	±1.5	±1.5	±1.5	±1.5	±1.5	±1.5	
	Secondary Flat	-			—		m (1-100)	—	—	m (1-100)	
	Tolerance	degree			—		±0.3	—	—	±0.3	
	Secondary Flat Length	mm			—		18.0	—	—	37.5	
	Tolerance	mm			—		±1.5	—	—	±2.5	
Surface finish	Single / Both Side Polish	-	S	S	S	S	B	S	S	B	
Surface Roughness	Ra(AFM@1µm x 1µm)	nm	≅0.3	≅0.15	≅0.3	≅0.15	≅0.3	≅0.3	≅0.15	≅0.15	
Backside Roughness	Ra	µm	≅1.5				—	≅1.5	≅1.5	—	
		nm	—				≅0.3	—	—	≅0.3	
BOW(Concave)	BOW	µm	≅10	≅7	≅20	≅10	≅10	≅20	≅10	≅10	
Polarity		+/-	-	Specified	-	Specified	Specified	-	Specified	Specified	
SORI	SORI	µm	≅10	≅7	≅20	≅10	≅10	≅20	≅10	≅10	
Thickness Variation	TV5	µm	≅7	≅5	≅10	≅5	≅3	≅10	≅5	≅3	
	GBIR	µm	—		≅20	≅5	≅3	≅20	≅5	≅3	
	SBIR(12.5mm x 16.0mm)	µm	—			1.5	1.5	1.5		1.5	
Cleanliness	Particulates	=>0.5 µm	—		≅100	≅50	≅50	≅200	≅100	≅100	
	Heavy Metal (TXRF)		Na, K, Ca, Ti, Cr, Fe, Ni, Cu, Zn < 2.0E10 atom/cm^2								
	Organic Residuals (XPS)	% atom	C < 1								