

Part Number

Customer

Category	Parameter	Specification	Measurement Method	
OverallWafer	1.0	Diameter	150.00 +/- 0.20 mm	
	2.0	Primary Flat Orientation	{110} +/- 1.0 degree	Wafer Vendor
	3.0	Primary Flat Length	57.50 +/- 2.50 mm	Wafer Vendor
	4.0	Secondary Flat Orientation	none	Wafer Vendor
	5.0	Overall Thickness	438.50 +/- 6.00 $\mu$ m	ADE, 100%
	6.0	Total Thickness Variation (TTV)	<3.00 $\mu$ m	Guaranteed by Process
	7.0	Bow	<60.00 $\mu$ m	ADE to ASTM F534, 100%
	8.0	Warp	<60.00 $\mu$ m	ADE to ASTM F534, 100%
	9.0	Edge Chips	0	Bright Light, 100%
	10.0	Edge Exclusion	5mm	
	11.0	Bond Process	Fusion Bonding	Guaranteed by Process
HandleSilicon	12.0	Handle Growth Method	CZ	Wafer Vendor
	13.0	Handle Orientation	{100} +/- 0.5 degree	Wafer Vendor
	14.0	Handle Thickness	400.00 +/- 5.00 $\mu$ m	ADE, 100%
	15.0	Handle Doping Type	P	Wafer Vendor
	16.0	Handle Dopant	Boron	Wafer Vendor
	17.0	Handle Resistivity	1~20 Ohmcm	Wafer Vendor
	18.0	Backside Finish	Polished with oxide, lasermark, and light handling marks	Guaranteed by process
	BuriedOxide	19.0	Oxide Type	Thermal
20.0		Oxide Thickness	5,000.00 +/- 250.00 A	Nanospec centre point, 4%
21.0		Oxide formed on	Handle or/and Device	
DeviceSilicon	22.0	Device Growth Method	CZ	Wafer Vendor
	23.0	Device Orientation	{100} +/- 0.5 degree	Wafer Vendor
	24.0	Nominal Thickness	38.00 +/- 0.50 $\mu$ m	Filmetrics 9pts, 100% (note3)
	25.0	Distance to device silicon edge from wafer edge	< 2mm	Typical by Process
	26.0	Device Doping Type	N	Wafer Vendor
	27.0	Device Dopant	Phosphorous	Wafer Vendor
	28.0	Device Resistivity	0.4~1.15 Ohmcm	Wafer Vendor
	29.0	Surface Voids	None	Bright Light, 100% (note2)
	30.0	Haze	None	Bright Light, 100% (note2)
	31.0	Scratches	none on the front-side	Bright Light, 100% (note2)

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Shipping Details	Wafer per box :	Max 25
	Packaging :	Taped Polypropylene Wafer Box Empak, Ultrapak, 150.00mm Antistatic Double Bagging
	Lot Shipment Data	Device Thickness Bow / Warp Data Handle and SOI Thickness



Explanatory Notes 1. Microscope inspection performed using microscope scan as below. 5x objective.

2. All bright light inspections performed exclude all wafer area outside the edge exclusion defined in Overall Wafer, Edge Exclusion. High intensity bright lamp inspection as per ASTM F523.

3. 9 point measurement are as shown in the diagram below:



Additional Information