

Part Number

Customer

Category	Parameter	Specification	Measurement Method	
OverallWafer	1.0	Diameter	100.00 +/- 0.50 mm	
	2.0	Primary Flat Orientation	{110} +/- 1 degree	Wafer Vendor
	3.0	Primary Flat Length	32.50 +/- 2.50 mm	Wafer Vendor
	4.0	Secondary Flat Orientation	none/semi standard	
	5.0	Secondary Flat Length	none / 18.5mm +/-2.5mm	Wafer Vendor
	6.0	Overall Thickness	354.00 +/- 11.00 $\mu$ m	ADE, 100%
	7.0	Total Thickness Variation (TTV)	<5.00 $\mu$ m	ADE 100% to ASTM F534
	8.0	Bow	<60.00 $\mu$ m	ADE to ASTM F534, 20%
	9.0	Warp	<60.00 $\mu$ m	ADE to ASTM F657, 20%
	10.0	Edge Chips	0	Bright Light, 100% (note 2)
	11.0	Edge Exclusion	5mm	
HandleSilicon	12.0	Handle Growth Method	CZ	Wafer Vendor
	13.0	Handle Orientation	{100} +/- 0.5 degree	Wafer Vendor
	14.0	Handle Thickness	350.00 +/- 10.00 $\mu$ m	ADE, 100%
	15.0	Handle Doping Type	N	Wafer Vendor
	16.0	Handle Dopant	Phosphorous	Wafer Vendor
	17.0	Handle Resistivity	1 ~ 10 Ohm-cm	Wafer Vendor
	18.0	Backside Finish	Polished with oxide and lasermark.	Wafer Vendor
	BuriedOxide	19.0	Oxide Type	Thermal
20.0		Oxide Thickness	20,000.00 +/- 1,000.00 A	Nanospec centre point, 4%
21.0		Oxide formed on	Handle and / or device Wafer	
DeviceSilicon	22.0	Device Growth Method	CZ	Wafer Vendor
	23.0	Device Orientation	{100} +/- 0.5 degree	Wafer Vendor
	24.0	Nominal Thickness	2.00 +/- 0.50 $\mu$ m	Filmetrics 9pts, 100% (note 3)
	25.0	Distance to device silicon edge from wafer edge	<= 2mm	Typical by Process
	26.0	Edge Removal Depth in Handle	<100 $\mu$ m	Guaranteed by process
	27.0	Device Doping Type	P	Wafer Vendor
	28.0	Device Dopant	Boron	Wafer Vendor
	29.0	Device Resistivity	< 0.003 Ohm-cm	Wafer Vendor
	30.0	Voids	none	Wafer Vendor
	31.0	Scratches	0	Bright Light, 100% (note 2)
	32.0	Haze	none	Bright Light, 100% (note 2)

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Shipping Details	Wafer per box :	Max 25
	Packaging :	Taped Polypropylene Wafer Box Empak, Ultrapak, 100.00mm 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