

Part Number		Customer		
Category	Parameter	Specification	Measurement Method	
OverallWafer	1.0	Diameter	150.00 +/- 0.20 mm	
	2.0	Primary Flat Orientation	{110} +/- 1 degree	Wafer Vendor
	3.0	Primary Flat Length	57.50 +/- 2.50 mm	Wafer Vendor
	4.0	Secondary Flat Orientation	none	
	5.0	Overall Thickness	412.00 +/- 7.00 μ m	ADE, 100%
	6.0	Total Thickness Variation (TTV)	<5.00 μ m	Guaranteed by Process
	7.0	Global Flatness (TIR)	<3.00 μ m	ADE 100%
	8.0	Bow	<75.00 μ m	ADE to ASTM F534, 20%
	9.0	Warp	<75.00 μ 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} +/- 1 degree	Wafer Vendor
	14.0	Handle Thickness	401.00 +/- 5.00 μ m	ADE, 100%
	15.0	Handle Doping Type	N	Wafer Vendor
	16.0	Handle Dopant	Phosphorous	Wafer Vendor
	17.0	Handle Resistivity	1 - 5 Ohmcm	Wafer Vendor
	18.0	Backside Finish	Polished with 1 μ m oxide and lasermark. Some b/s scratches acceptable	Wafer Vendor
	BuriedOxide	19.0	Oxide Type	Thermal
20.0		Oxide Thickness	10,000.00 +/- 500.00 A	Nanospec centre point, 4%
21.0		Oxide formed on	Handle Wafer	
DeviceSilicon	22.0	Device Growth Method	CZ	Wafer Vendor
	23.0	Device Orientation	{100} +/- 1 degree	Wafer Vendor
	24.0	Oxygen Concentration	< 8e17 at/cm3	Wafer Vendor
	25.0	Nominal Thickness	10.00 +/- 1.00 μ m	FTIR, 100% 9-Pt (note3)
	26.0	Distance to device silicon edge from wafer edge	<= 2mm	Typical by Process
	27.0	Device Doping Type	N	Wafer Vendor
	28.0	Device Dopant	Phosphorous	Wafer Vendor
	29.0	Device Resistivity	1 - 5 Ohm-cm	Wafer Vendor
	30.0	Buried Layer Implant	none	implant vendor
	31.0	Voids	0	Bright Light, 100% (note 2)
	32.0	Scratches	0	Bright Light, 100% (note 2)
	33.0	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, 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