

Part Number

Customer

Category	Parameter	Specification	Measurement Method
OverallWafer	1.0 Diameter	100.00 +/- 0.50 mm	
	2.0 Primary Flat Orientation	{110} +/- 1.0 degree	Wafer Vendor
	3.0 Primary Flat Length	32.50 +/- 2.50 mm	Wafer Vendor
	4.0 Secondary Flat Orientation	None	Wafer Vendor
	5.0 Overall Thickness	401.50 +/- 12.00 μ m	ADE, 100%
	6.0 Total Thickness Variation (TTV)	<5.00 μ m	Guaranteed by Process
	7.0 Bow	<80.00 μ m	ADE to ASTM F534, 100%
	8.0 Warp	<80.00 μ m	
	9.0 Edge Chips	0	Bright Light, 100% (note 2)
	10.0 Edge Exclusion	5mm	
HandleSilicon	11.0 Handle Growth Method	CZ	Wafer Vendor
	12.0 Handle Orientation	{100} +/- 1.0 degree	Wafer Vendor
	13.0 Handle Thickness	300.00 +/- 10.00 μ m	ADE, 100%
	14.0 Handle Doping Type	Any	Wafer Vendor
	15.0 Handle Dopant	Any	Wafer Vendor
	16.0 Handle Resistivity	1 ~ 30 Ohmcm	Wafer Vendor
	17.0 Backside Finish	Polished with Oxide and lasermark	Wafer Vendor
BuriedOxide	18.0 Oxide Type	Thermal	
	19.0 Oxide Thickness	15,000.00 +/- 750.00 A	Nanospec centre point, 4%
DeviceSilicon	20.0 Device Growth Method	CZ	Wafer Vendor
	21.0 Device Orientation	{100} +/- 1.0 degree	Wafer Vendor
	22.0 Nominal Thickness	100.00 +/- 2.00 μ m	Filmetrics, 9 point, 100%
	23.0 Distance to device silicon edge from wafer edge	<= 2mm	Typical by Process
	24.0 Device Doping Type	Any	Wafer Vendor
	25.0 Device Dopant	Any	Wafer Vendor
	26.0 Device Resistivity	1 ~ 30 Ohmcm	Wafer Vendor
	27.0 Voids	none	Bright Light, 100% (note 2)
	28.0 Scratches	0	Bright Light, 100% (note 2)
	29.0 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