

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 Std	
	5.0	Overall Thickness	483.00 +/- 10.00 μ m	ADE, 100%
	6.0	Total Thickness Variation (TTV)	<3.00 μ m	ADE to ASTM F534
	7.0	Bow	<50.00 μ m	ADE to ASTM F534, 20%
	8.0	Warp	<50.00 μ m	ADE to ASTM F657, 20%
	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 degree	Wafer Vendor
	13.0	Handle Thickness	450.00 +/- 5.00 μ m	ADE, 100%
	14.0	Handle Doping Type	P	Wafer Vendor
	15.0	Handle Dopant	Boron	Wafer Vendor
	16.0	Handle Resistivity	1 - 20 Ohmcm	Wafer Vendor
	17.0	Backside Finish	Lapped and etched with no oxide and lasermark	Wafer Vendor
BuriedOxide	18.0	Oxide Type	Thermal	
	19.0	Oxide Thickness	1,000.00 +/- 100.00 A	Nanospec centre point, 4%
	20.0	Oxide formed on	Device Wafer	
DeviceSilicon	21.0	Device Growth Method	FZ	Wafer Vendor
	22.0	Device Orientation	{100} +/- 1 degree	Wafer Vendor
	23.0	Nominal Thickness	33.00 +/- 1.00 μ m	FTIR, 100% 9-Pt (note3)
	24.0	Distance to device silicon edge from wafer edge	<= 2mm	Defined Edge
	25.0	Device Doping Type	P	Wafer Vendor
	26.0	Device Dopant	Boron	Wafer Vendor
	27.0	Device Resistivity	1 - 5 Ohmcm	Wafer Vendor
	41.0	Voids	none	Wafer Vendor
	42.0	Scratches	0	Bright Light, 100% (note 2)
	43.0	Haze	none	Bright Light, 100% (note 2)
44.0	Device Field Oxidation	6.00 +/- 0.30 μ m	2 x 3 μ m runs (strip after each)	
DeviceSilicon2	46.0	Device 2 Field Oxidation	1,000.00 +/- 100.00 A	Nanospec 4%, 5pt
DeviceSilicon	47.0	Surface	Polished prime with 1kA oxide	100% bright light inspection

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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