Customer

Part Number

Category	Parameter		Specification	Measurement Method	
OverallWafer	1.0	Diameter	150.00 +/- 0.30 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	675.50 +/- 27.00 μm	ADE, 100%	
	6.0	Total Thickness Variation (TTV)	<5.00	ADE to ASTM F657	
	7.0	Bow	<60.00μm	ADE to ASTM F534, 20%	
	8.0	Warp	<60.00μm	ADE to ASTM F657, 20%	
	9.0	Edge Chips	0	Bright Light, 100% (note 2)	
	10.0	Edge Exclusion	6mm		
HandleSilicon	11.0	Handle Growth Method	CZ	Wafer Vendor	
	12.0	Handle Orientation	{100} +/- 1.0 degree	Wafer Vendor	
	13.0	Handle Thickness	500.00 +/- 25.00 μm	ADE, 100%	
	14.0	Handle Doping Type	P	Wafer Vendor	
	15.0	Handle Dopant	Boron	Wafer Vendor	
	16.0	Handle Resistivity	1 - 30 Ohmcm	Wafer Vendor	
	17.0	Backside Finish	Lapped and etched with oxide and lasermarking	Guaranteed by process	
BuriedOxide	18.0	Oxide Type	Thermal		
	19.0	Oxide Thickness	5,000.00 +/- 250.00 A	Nanospec centre point, 4%	
	20.0	Oxide formed on	Handle Wafer		
DeviceSilicon	21.0	Device Growth Method	FZ	Wafer Vendor	
	22.0	Device Orientation	{100} +/- 1.0 degree	Wafer Vendor	
	23.0	Carbon Concentration	<2E16 atoms/cm3 ASTM 75	Wafer Vendor	
	24.0	Oxygen Concentration	<2E16 atoms/cm3	Wafer Vendor	
	25.0	Nominal Thickness	175.00 +/- 1.50 μm	FTIR, 100% 9-Pt (note3)	
	26.0	Distance to device silicon edge from wafer edge	<= 2.0mm	Typical by Process	
	27.0	Device Doping Type	N	Wafer Vendor	
	28.0	Device Dopant	Phosphorous	Wafer Vendor	
	29.0	Device Resistivity	112 - 138 Ohmem	Wafer Vendor	
	30.0	Buried Layer Implant	N/Phos, Dose = 1.5E+13 ions/sq, Energy = 100KeV, tilt = 0deg.	Implant Vendor	
	31.0	Surface	Prime polished surface, Micro roughness < 0.5nm	Guaranteed by process	
	32.0	Voids	none	Wafer Vendor	
	33.0	Scratches	none	Bright Light, 100% (note 2)	
	34.0	Haze	none	Bright Light, 100% (note 2)	

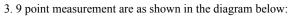
Icemos Technology LtdProduct Specification1000.361805Issue Date26 September 201313

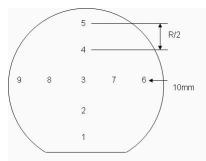
Part Number		Custon	ner	
Category	Parameter		Specification	Measurement Method
DeviceSilicon	35.0	Device Side Scribe	As per ABB specification attached: Dev	Guaranteed by process

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Part Number		Customer	
Category	Parameter	Specification	Measurement Method
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 inspec	ction 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		

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





Additional Information