N-type-M10 (182.2×191.6*262.5) A

Monocrystalline Wafer

Comprehensive system certification

ISO9001:2022

ISO14001:2022

ISO45001:2022

Gokin

Monocrystalline Wafer Specification

Key parameters

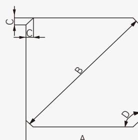
The file version	202406

Conductivity type	N-type	PN testing machine
Dopant	Phos.(磷)	/
Resistivity/Ω·cm	0.4-1.6	Wafer inspection system
Lifetime/μs	⩾800	BCT-400
Oxygen concentration/ppma	⩽12	FTIR (ASTM F121-83)
Carbon Concentration /ppma	⩽1	FTIR (ASTM F123-91)

Material properties

Growth method	CZ	/
Crystallinity	Monocrystalline	/
Etch pit density (dislocation density)/pcs/cm²	⩽500	Preferential Etch Techniques(ASTM F47-88)
Surface orientation/°	<100>±3	X-ray Diffraction Method
Orientation of pseudo square sides/°	<010>, <001>±3	X-ray Diffraction Method

Geometric dimensions and surface properties

Wafer model	M11-L	/
Geometry	Quasi square	/
Bevel edge shape	Round	/
Wafer Side length/mm	182.2/191.6±0.25	AOI
Wafer Diameter/mm	262.5±0.25	AOI
Arc length projection/mm	1.32/1.38±0.5	AOI
Angle between adjacent sides/°	90±0.15	AOI
Thickness/μm	130/135/140±10	AOI
Batch mean/μm	⩾130/135/140	AOI
TTV/μm	⩽25	AOI
Saw Mark/μm	⩽15	AOI
Bow/μm	⩽40	AOI
Warpage/μm	⩽40	AOI
Cutting method	DW	/
Surface quality	No visual defects (no stains、no finger prints、no oil、no glue). No color difference, No bright line	AOI
Chipping	Depth⩽0.3 mm , Length ⩽0.5 mm; Count ⩽ 2 /pcs, no V-chip	Naked eyes or wafer inspection system
Micro cracks / holes	None	AOI
Schematic diagram of wafer size		A.Shape/Size: 182.2/191.6±0.25 mm B.Diagonal: 262.5±0.25 mm C.Corner Length: 1.32/1.38±0.5 mm D.Right Angle: 90±0.15°