

NORSTEL[★]

Norstel's commercial product range includes 50.8mm, 76.2mm and 100mm diameter 4H semi-insulating Silicon Carbide (SiC) substrates that are available in on-axis as well as custom defined off-axis orientation. Norstel's unique and patented HTCVD crystal growth technology is the key enabler to purer products combining high and uniform resistivity with a very low defect density.

STANDARD SPECIFICATION FOR 2" DIAMETER ON-AXIS SEMI-INSULATING SUBSTRATES:

Diameter:	50.8 ± 0.4 mm
Polytype:	4H
Orientation (center point):	{0001} ± 0.25 deg
Type:	Semi-insulating (HTCVD high purity)
Resistivity:	≥ 1E7 Ohm-cm
Thickness:	350 ± 50 μm
TTV:	≤ 10 μm
LTV:	≤ 5 μm
Warp:	≤ 35 μm
MPD (3mm edge exclusion):	≤ 10 cm ⁻²
Surface finish (Si-face):	Epi-ready (CMP) Rq ≤ 0.2 nm
Surface finish (C-face):	Optical Rq ≤ 3.0 nm

Ref: 250-B-Q January 2017

For more information please contact Norstel sales!
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