Specification of n-type SiC wafer

			100/150 mm n-type SiC Wafer Sp	ecification
Property			4 inch	6 inch
Diameter			$100.0 \pm 0.5 \text{ mm}$	150.0 ± 0.5 mm
Thickness (Center Point)			$350 \pm 25 \ \mu m$	$350 \pm 25 \mu m$
Dopant			N-type (Nitrogen)	N-type (Nitrogen)
Primary Flat Length			$32.5 \pm 2.0 \text{ mm}$	47.5±2.0 mm
Secondary Flat Length			$18.0 \pm 2.0 \text{ mm}$	37.5 ±2.0 mm
Surface Orientation			4.0° toward [11-20] ± 0.5°	4.0° toward [11-20] ± 0.5°
Primary Flat Orientation			[11-20] ± 5°	$[11-20] \pm 5^{\circ}$
Secondary Flat Orientation			90° Clockwise from Primary Flat ± 5° (Si face up)	90° Clockwise from Primary Flat ± 5° (Si face up)
Resistivity (of	nm-cm)		0.010-0.030	0.010-0.030
Surface Rough	ness	Front Side	5 Å	5 Å
		Back Side	1 nm	1 nm
TTV			≦ 10μm	≦ 15μm
LTV (site 10x10 mm)			≦ 4μm	≦ 4μm
BOW			≦ 25μm	≦ 30μm
WARP			≦ 50µm	≦ 50μm
Bulk Characte	ristics			
Cı	Crack		None	None
P1	Planar Defect		≦ 10% area	≦ 10 % area
In	Inclusion		≦ 10% area	≦ 10 % area
Fo	Foreign Polytype Area		≦ 10% area	≦ 10 % area
Surface Finish				
Scratch			≦ 5 scratches	≦ 5 scratches
Pi	Pits		≦ 10	≦ 10
Pa	article		≦4	≦4

Specification of semi-insulating SiC wafer

			100/150 mm SI-SiC Wafer Specificati	ion
Property			4 inch	6 inch
Diameter			100.0 ± 0.5 mm	150.0 ± 0.5 mm
Thickness (Center Point)			500 ± 25 μm	500 ± 25 μm
Dopant			None	None
Primary Flat Length			$32.5 \pm 2.0 \text{ mm}$	47.5±2.0 mm
Secondary Flat Length			$18.0 \pm 2.0 \text{ mm}$	
Surface Orientation			On-axis [0001] ± 0.5°	On-axis [0001] ± 0.5°
Primary Flat Orientation			[1010] ± 5°	[1010] ± 5°
Secondary Flat Orientation			90° Clockwise from Primary Flat ± 5° (Si face up)	
Resistivity (ohm-cm)			>105	>105
Surface Roughne	hness	Front Side	5 Å	5 Å
		Back Side	1 nm	1 nm
TTV			≦ 10μm	≦15μm
LTV (site 10x10 mm)			≦ 4μm	≦ 4μm
BOW			≦ 25μm	≦ 30μm
WARP			≦ 50μm	≦ 50μm
Bulk Charact	eristics			
C	Crack		None	None
P	Planar Defect		≦ 10% area	≦ 10 % area
It	Inclusion		≦ 10% area	≦ 10 % area
F	Foreign Polytype Area		≦ 10% area	≦ 10 % area
Surface Finisl				
S	Scratch		≦ 5 scratches	≦ 5 scratches
P	its		≦ 10	≦ 10
P	article		≦4	≦4