

## 蘇州瑞而美光電科技有限公司 Suzhou Realmay Lightings Tech Co., Ltd

## Specification of 6inch 4H-SiC Substrate

Description	Specification
Material	4H-SiC Substrate
Wafer Orientation	The miscut of the 4H-SiC is $4\pm0.5$ degree off-axis toward <1120>, $0\pm0.5$ degree off-axis toward <0001>.
Conduction Type	N-Type/Si Surface (CMP)
Effective Area	>/=90%
Micropipe Density	=5/cm<sup 2 (Production Grade)
Electrical Resistivity	N-Type: 0.015~0.028 Ω .cm, Si: >/=1×10 <sup>5</sup> Ω .cm
Carrier Density	$>/=1 \times 10^{12} \mathrm{cm}^{-2}$
Diameter	6inch
Thickness	500±25um
Flat length	47.5±1mm
Surface Roughness (Ra)	Ra =0.3nm</td
Back Surface Roughness	Double sided polishing
Substrate Parallelism	=20um</td
TTV	=20um</td
BOW	-25~25um
Warp	=35um</td
Scratch	None
Defective Patterns	Total defective area =5% of wafer area; Inspection by naked eye added without bright light</td
Laser Marking	None
Packaging	Clean room, vacuum packing

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