



Conductive Silicon Carbide Substrates and Epitaxy

KEEPING PACE WITH THE WORLD'S DEMAND FOR SiC POWER

INDUSTRY-LEADING FLEXIBILITY AND SCALE

With more than 30 years of Silicon Carbide development and manufacturing experience, Wolfspeed produces with the industry's broadest range of Silicon Carbide and Gallium Nitride on Silicon Carbide materials. Offering n-type substrates and a variety of Silicon Carbide epitaxy options, Wolfspeed delivers the quality and quantity necessary to support the rapidly expanding demand for high-efficiency SiC power semiconductors.

MATERIALS PORTFOLIO

Polytype	Surface Orientation	Supported Diameters	SiC Epitaxy
4H	4° Off-axis	150 mm	n-type
		200 mm	p-type
			Thick epitaxy

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SiC Substrate Product Descriptions

Part Number	Description
W4NRG4C-C1-U200	4H-Silicon Carbide, n-type, Research Grade, 150mm, 4° Off-Axis, 0.015-0.028 Ω-cm, Ultra Low MPD ≤1/cm², 350um Thick w/ 47.5mm Flat, Double-Sided Polish Silicon Face CMP Epi Ready, Bare Substrate
W4NPG4C-C1-U200	4H-Silicon Carbide, n-type, Production Grade, 150mm, 4° Off-Axis, 0.015-0.028 Ω-cm, Ultra Low MPD ≤1/cm², 350um Thick w/ 47.5mm Flat, Double-Sided Polish Silicon Face CMP Epi Ready, Bare Substrate
W4NPG4C-C1-B200	4H-Silicon Carbide, n-type, Production Grade, 150mm, 4° Off-Axis, 0.015-0.028 Ω-cm, Ultra Low MPD ≤1/cm², Low BPD ≤1500/cm², 350um Thick w/ 47.5mm Flat, Double-Sided Polish Silicon Face CMP Epi Ready, Bare Substrate
W4NPH4A-N1-0200	4H-SiC, n-type, Production Grade, 200 mm, 4° Off-Axis, 0.015-0.025 Ω-cm, 350 μm Thick w/ Notch, Double-Sided Polish Silicon Face CMP Epi Ready, Bare Substrate

SiC Epitaxy Typical Layer Options

Conductivity	n-type	p-type
Deposition	Si face	Si face
Net doping density	5E14 – 1E19/cm ³	5E14 – 1E20/cm ³
Thickness	0.2–200 microns	0.2–200 microns

