



HPSI Silicon Carbide & GaN Epitaxy

PROVEN EXPERTISE IN SILICON & GaN MATERIALS FOR RF APPLICATIONS

FULLY INTEGRATED SUBSTRATE AND EPITAXY SUPPLIER

Wolfspeed offers the industry's broadest range of Silicon Carbide and GaN on Silicon Carbide materials, including semi-insulating substrates and nitride epitaxy options up to the newly available diameter of 150mm. Backed by more than 30 years of Silicon Carbide development and manufacturing experience, Wolfspeed materials deliver world-leading bandwidth, efficiency and frequency of operation for telecom, aerospace and defense applications.

When you partner with Wolfspeed, you get the best and most innovative materials.

HIGH PURITY SEMI-INSULATING PORTFOLIO

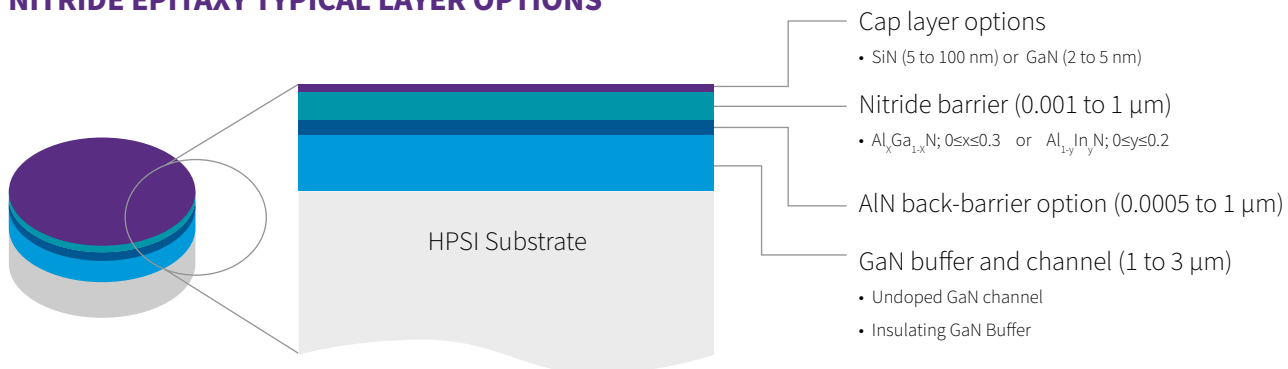
Polytype	Supported Diameters	Nitride Epitaxy	
4H	100 mm	GaN, AlN	SiN
	150 mm	AlGaIn, AlInN	HEMT structures

Learn how Wolfspeed can revolutionize your designs at [wolfspeed.com/materials](https://www.wolfspeed.com/materials) or contact us at materials_sales@wolfspeed.com or +1.844.200.9653

HIGH PURITY SEMI-INSULATING SILICON CARBIDE SUBSTRATE PRODUCT DESCRIPTIONS

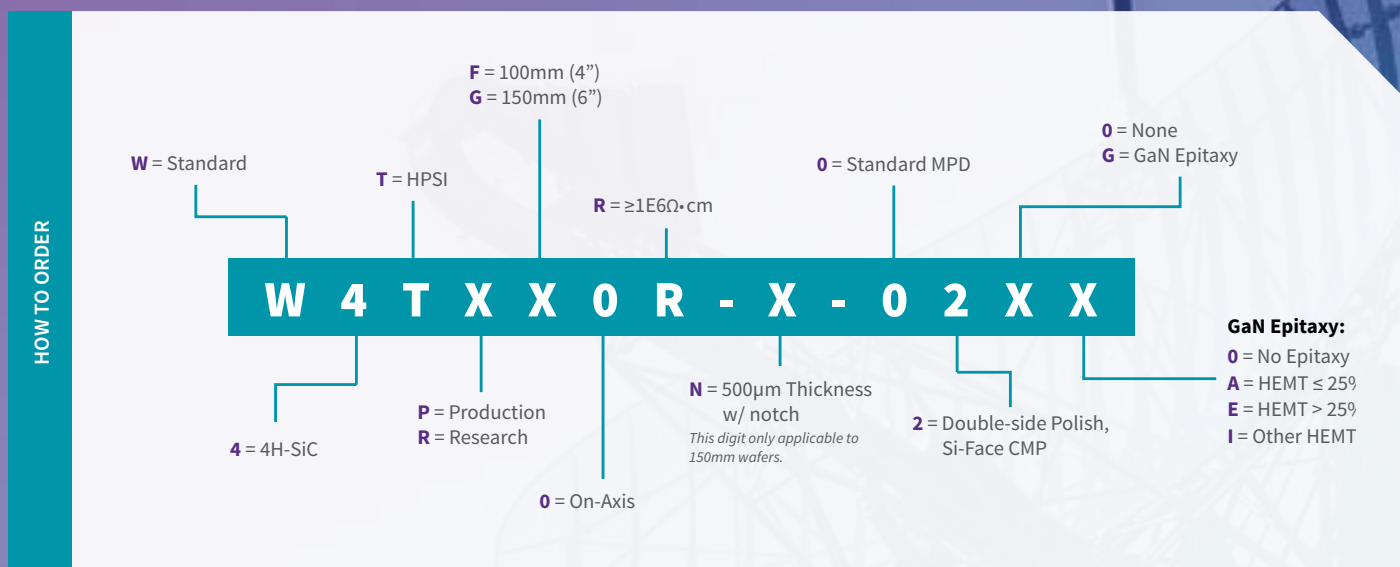
Part Number	Description
W4TRF0R-0200	4H-SiC, HPSI, Research Grade, 100mm, On-Axis, $\geq 1E6 \Omega\cdot\text{cm}$, Standard MPD, 500um Thick w/ 32.5mm Flat, Double-Sided Polish Si Face CMP Epi Ready, Bare Substrate
W4TPF0R-0200	4H-SiC, HPSI, Production Grade, 100mm, On-Axis, $\geq 1E6 \Omega\cdot\text{cm}$, Standard MPD, 500um Thick w/ 32.5mm Flat, Double-Sided Polish Si Face CMP Epi Ready, Bare Substrate
W4TRG0R-N-0200	4H-SiC, HPSI, Research Grade, 150mm, On-Axis, $\geq 1E6 \Omega\cdot\text{cm}$, Standard MPD, 500um Thick w/ Notch, Double-Sided Polish Si Face CMP Epi Ready, Bare Substrate
W4TPG0R-N-0200	4H-SiC, HPSI, Production Grade, 150mm, On-Axis, $\geq 1E6 \Omega\cdot\text{cm}$, Standard MPD, 500um Thick w/ Notch, Double-Sided Polish Si Face CMP Epi Ready, Bare Substrate

NITRIDE EPITAXY TYPICAL LAYER OPTIONS



Each structure is built to customer provided specifications.

Custom structures outside of typical layer options and quaternary compositions available upon special request.



Our materials are ISO-TS 16949 certified.

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