

# HPSI SiC and GaN Epitaxy



## Proven Expertise in SiC & GaN Materials for RF Applications

### FULLY INTEGRATED SUBSTRATE AND EPITAXY SUPPLIER

With more than 30 years of development and manufacturing experience, Wolfspeed is driving innovation with the industry's broadest range of SiC and GaN materials. Delivering semi-insulating substrates and nitride epitaxy options up to the newly available diameter of 150mm, Wolfspeed materials enable performance far exceeding that of any other technology, for telecom, aerospace, or defense applications with world-leading bandwidth, efficiency and frequency of operation.

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

### HIGH PURITY SEMI-INSULATING PORTFOLIO

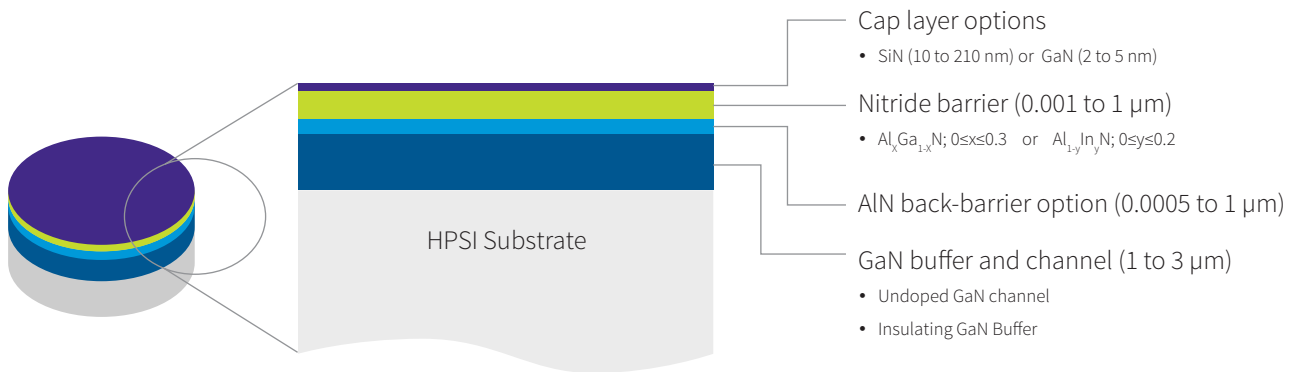
Polytype	Supported Diameters	Nitride Epitaxy	
4H	100 mm	GaN, AlN	SiN
	150 mm	AlGaN, AlInN	HEMT structures

Learn how Wolfspeed can revolutionize your designs at [wolfspeed.com/materials](http://wolfspeed.com/materials) or contact us at [materials\\_sales@wolfspeed.com](mailto:materials_sales@wolfspeed.com) or +1.919.287.7888.

## HIGH PURITY SEMI-INSULATING SiC SUBSTRATE PRODUCT DESCRIPTIONS

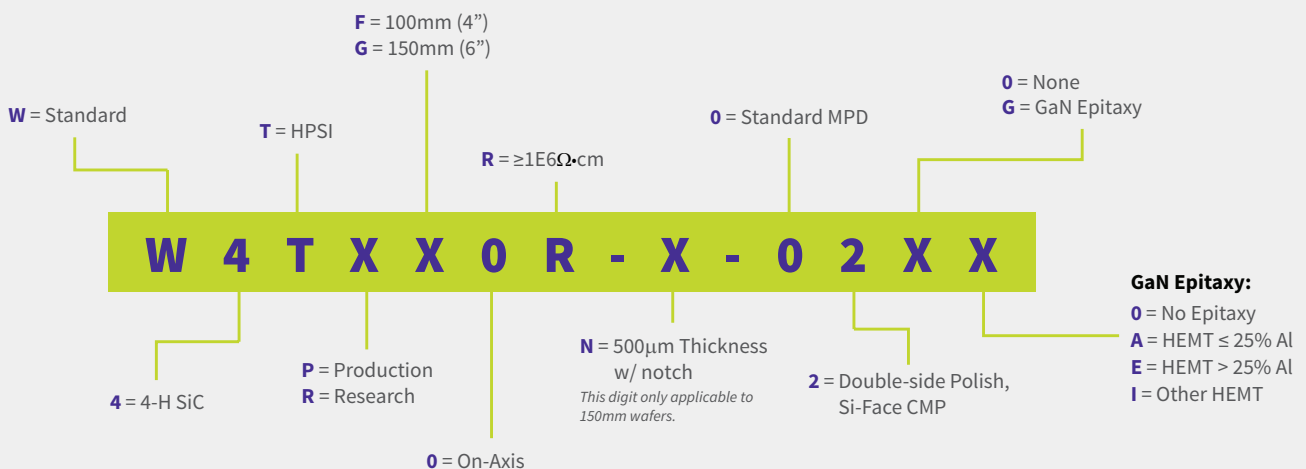
Part Number	Description
W4TRFOR-0200	4H-SiC, HPSI, Research Grade, 100mm, On-Axis, $\geq 1E6$ ohm-cm, Standard MPD, 500 $\mu$ m Thick w/ 32.5mm Flat, Double-Sided Polish Si Face CMP Epi Ready, Bare Substrate
W4TPFOR-0200	4H-SiC, HPSI, Production Grade, 100mm, On-Axis, $\geq 1E6$ ohm-cm, Standard MPD, 500 $\mu$ m 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, $\geq 1E6$ ohm-cm, Standard MPD, 500 $\mu$ m Thick w/ Notch, Double-Sided Polish Si Face CMP Epi Ready, Bare Substrate
W4TPG0R-N-0200	4H-SiC, HPSI, Production Grade, 150mm, On-Axis, $\geq 1E6$ ohm-cm, Standard MPD, 500 $\mu$ m 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.

## How to Order



Learn how Wolfspeed can revolutionize your designs at [wolfspeed.com/materials](http://wolfspeed.com/materials) or contact us at [materials\\_sales@wolfspeed.com](mailto:materials_sales@wolfspeed.com) or +1.919.287.7888.

