

PRODUCT DATA SHEET

Cs1010-061-012-5-2-k200

10 mm x 10 mm C-plane semi-insulating AMMONO-GaN substrate, manganese-doped. The substrate is sliced from a mono-crystalline bulk material grown by ammonothermal method.

TECHNICAL SPECIFICATION

DESCRIPTION	UNIT	VALUE		
General specification				
Orientation		(0001) C plane		
Thickness	μm	350 (±50)		
Dimension(s)	mm	10 (±0,5) x 10 (±0,5)		
Primary Flat (PF)	mm	3 (±0,5)		
Secondary Flat (SF)	mm	1,5 (±0,5)		
Bow	μm	0 (±10)		
Total Thickness Variation (TTV)	μm	≤ 20		

Structural specification

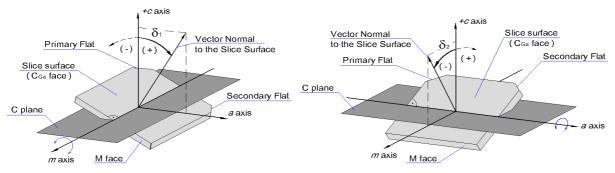
Etch Pit Density (EPD)		cm ⁻²	< 5 x 10 ⁴
FWHM (0002) of X-ray rock at 100 µm x 100 µm slit	ring curve, epi-ready surface	arcsec	~ 20
Macro defects			none

Electrical specification

Type of cor	ductivity		SI
Carrier con	centration	cm ⁻³	-
Resistivity		Ω*cm	≥ 10 ⁹
Carrier mol	ility	cm ² /V*s	-

MISORIENTATION

(measured in the center of the substrate)

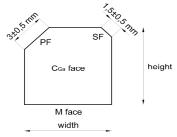


(Off M face		deg	0 (±0,25)
	C form	angle δ_1	deg	±0,35 (±0,20)
C face	angle δ_2	deg	0 (±0,20)	

SURFACE PREPARATION

Front side	Epi-ready polished (RMS < 0,5 nm)
Back side	Ground

SUBSTRATE SHAPE



Note: The information given above may be subject to change at any time without notice. This leaflet is not an offer within the meaning of sales or commercial law. The AMMONO-GaN substrates are offered for sale under Ammono's General Terms and Conditions.

ver. January 2018