

AlN Substrates

Research-grade substrates available for development of next generation AlN-based technologies in the fields of optoelectronics, power electronics and other devices.

100 mm diameter AlN substrate for R&D applications.

Version	Date
Preliminary	September 25, 2024



Specifications

Preliminary specifications for part number CIS-SUB4-NX-RG.

Substrate Property	Specification
Diameter	100 mm $\pm$ 0.5 mm
Surface Orientation	{0001} $\pm$ 1°
Primary Flat Length	32.5 $\pm$ 2 mm
Primary Flat Orientation	{1-100} $\pm$ 5.0°
Secondary Flat Length	18 $\pm$ 2 mm
Secondary Flat Orientation	90° from the primary flat (clockwise when Al-face up)
Front Surface (Al-face) Finish	CMP polished
Back Surface (N-face) Finish	Optical Polish
Laser Mark	N-face
Laser Mark Location	Near the secondary flat
Usable Area (area excluding polycrystalline areas)	> 80%

Disclaimer

The specifications, characteristics, and technical data presented in this datasheet are subject to change without prior notice. It is recommended that the most updated specifications, characteristics, and technical data be used in your application.

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