

u-GaN Template on sapphire

Substrate	Material	Sapphire	
	Type	Planar / PSS	
	Size	2 inch	4 inch
	Thickness	430 $\mu\text{m} \pm 25 \mu\text{m}$	650 $\mu\text{m} \pm 30 \mu\text{m}$
	Orientation	C-plane (0001)	
	Backside finish	Rough / Optical polishing	
U-GaN layer	Thickness	$\sim 4.0 \mu\text{m} \pm 3\%$ (Available thickness: 2.0~5.0 μm)	
	FWHM of X-ray Rocking Curve (ω-scan)	(002)	< 300 arcsec
		(102)	< 350 arcsec
	Carrier Concentration	< $1 \times 10^{17} / \text{cm}^3$	
	Mobility	> 200 cm^2/Vs	
	Edge Excursion Zone	< 2 mm	