

JYEG		2" 蓝宝石图案化衬底片 ( PSS)规格书	
		Patterned Sapphire Substrate Specifications	
参数 Parameters		要求 Specification	
1、尺寸 Dimensions	直径 Diameter	50.8±0.1mm	
	厚度 Thickness	430±10µm	
	定位边 Primary flat length	16±1mm	
	边缘倒角 Edge Chamfering	45°	
2、晶面取向 Orientation	主切割面 M-axis Surface orientation M-axis	0.2°±0.05°	
	主切割面 A-axis Surface orientation A-axis	0°±0.1°	
	定位面 A Plane Primary flat orientation A-axis	0°±0.2°	
3、平整度 Flatness	BOW	-6µm≤BOW≤0µm	
	TTV	≤4µm	
	LTV	≤1µm ( 5mm*5mm )	
4、表面状态 Surface condition	前表面质量 Front surface quality	外延准备(Ra≤2Å) Epitaxial ready(Ra≤2Å)	
	背面粗糙度 Back surface roughness	0.6-1.0µm	
	洁净度 Cleanness	大于0.3µm的颗粒小于50个 partical ( Size > 0.3µm ) number should be less than 50	
	缺陷 Defects	无裂纹、气孔、划伤、夹杂物、双晶 No cracks, pores, scratched, inclusions, twins	
	激光打标 Laser Mark	可定制 Can be customized	
5、材料质量		纯度≥99.996%的单晶AL <sub>2</sub> O <sub>3</sub> High purity mono-crystal AL <sub>2</sub> O <sub>3</sub>	
6、包装		在洁净的环境下装入洁净的片盒内，每盒25片 Wafers are packed in cleaned wafer cassettes containing 25 wafers under clean room environment	