Jiaozuo Commercial FineWin Co., Ltd

Add: Autoparts Community, Jiefang District, Jiaozuo City,454000,Henan,China
TEL:0086 15938119156 EMAIL: doris.y2013@hotmail.com

2" Cplane sapphire substrates

Crystal Materials	99,996%, High Purity, Monocrystalline Al_2O_3	
Diameter	50.8 mm ± 0.1 mm	
Thickness	430 μm ± 25 μm	
Orientation	C-plane (0001) to M-plane (1 -100) 0.2° ± 0.1°/2°~10°	
Primary flat Orientation	A-plane (11-20) ± 0.2°	
Primary flat length	16.0 mm ± 1.0 mm	
Front Surface	Epi-polished, Ra < 0.2 nm (by AFM)	
Back Surface	Fine ground, Ra = 0.5 μm to 1.2 μm(SSP)	Epi-polished, Ra < 0.2 nm (by AFM) (DSP)
TTV	⩽ 5 μm	
LTV	⩽5 μm	
BOW	⩽ 8 μm	
Cleaning/ packaging	Class 100 clean room cleaning no scratch,dig and crack and vacuum packaging derived nitrogen, 25 pieces in one cassette packaging	

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2" A- M- R- plane sapphire substrates

Crystal Materials	99,996%, High Purity, Monocrystalline Al_2O_3		
Diameter	50.8 mm ± 0.1 mm		
Thickness	430 μm ± 25 μm		
Orientation	A-plane (11-20) ± 0.2°	M-Plane (1-100) ± 0.2°	R-Plane (1-102) ± 0.2°
Primary flat Orientation	C-plane (0001) ± 0.2°	A-plane (11-20) ± 0.2°	Cplane projection to R-plane CCW 45 ± 1°
Primary flat length	16.0 mm ± 1.0 mm		
Front Surface	Epi-polished, Ra < 0.3 nm (by AFM)		
Back Surface	Fine ground, Ra = 0.5 μm to 1.2 μm(SSP)	Epi-polished, Ra < 0.2 nm (by AFM) (DSP)	
TTV	⩽ 8 μm		
LTV	⩽8 μm		
BOW	⩽ 8 μm		
Cleaning/ packaging	Class 100 clean room cleaning no scratch,dig and crack and vacuum packaging derived nitrogen, 25 pieces in one cassette packaging		

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3" Cplane sapphire substrates

Crystal Materials	99,996%, High Purity, Monocrystalline Al_2O_3	
Diameter	76.2 mm ± 0.2 mm	
Thickness	500 μm ± 25 μm	
Orientation	C-plane (0001) to M-plane (1 -100) 0.2° ± 0.1°	
Primary flat Orientation	A-plane (11-20) ± 0.2°	
Primary flat length	20.0 mm ± 1.0 mm	
Front Surface	Epi-polished, Ra < 0.2 nm (by AFM)	
Back Surface	Fine ground, Ra = 0.5 μm to 1.2 μm(SSP)	Epi-polished, Ra < 0.2 nm (by AFM) (DSP)
TTV	⩽ 10 μm	
LTV	⩽10 μm	
BOW	⩽ 10 μm	
Cleaning/ packaging	Class 100 clean room cleaning no scratch,dig and crack and vacuum packaging derived nitrogen, 25 pieces in one cassette packaging	

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4" sapphire substrates

Crystal Materials	99,996%, High Purity, Monocrystalline Al_2O_3	
Diameter	100.0 mm ± 0.2 mm	
Thickness	650 ± 25 μm	
Orientation	C-plane (0001) to M-plane (1 -100) 0.2° ± 0.1°	
Primary flat Orientation	A-plane (11-20) ± 0.2°	
Primary flat length	31.0 mm ± 1.0 mm	
Front Surface	Epi-polished, Ra < 0.2 nm (by AFM)	
Back Surface	Fine ground, Ra = 0.5 μm to 1.2 μm(SSP)	Epi-polished, Ra < 0.2 nm (by AFM) (DSP)
TTV	⩽ 10 μm	
Warp	⩽15 μm	
BOW	⩽ 10 μm	
Cleaning/ packaging	Class 100 clean room cleaning no scratch,dig and crack and vacuum packaging derived nitrogen, 25 pieces in one cassette packaging	

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6" sapphire substrates

Crystal Materials	99,996%, High Purity, Monocrystalline Al_2O_3	
Diameter	150.0 mm ± 0.2 mm	
Thickness	1000 μm ± 25 μm OR 1300 μm ± 25 μm	
Orientation	C-plane (0001) to M-plane (1 -100) 0.35° ± 0.1°	
Primary flat Orientation	A-plane (11-20) ± 0.2°	
Primary flat length	50.0 mm ± 1.0 mm	
Front Surface	Epi-polished, Ra < 0.2 nm (by AFM)	
Back Surface	Fine ground, Ra = 0.5 μm to 1.2 μm(SSP)	Epi-polished, Ra < 0.2 nm (by AFM) (DSP)
TTV	⩽ 20 μm	
LTV	⩽15 μm	
BOW	⩽ 25 μm	
Cleaning/ packaging	Class 100 clean room cleaning no scratch,dig and crack and vacuum packaging derived nitrogen, 25 pieces in one cassette packaging	

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8" sapphire substrates

Crystal Materials	99,996%, High Purity, Monocrystalline Al_2O_3
Diameter	200.0 mm ± 0.1 mm
Thickness	1600 ± 25 μm
Orientation	C-plane (0001) to M-plane (1 -100) 0.2° ± 0.1°
Primary flat Orientation	round wafers with notch
Primary flat length	
Front Surface	Epi-polished, Ra < 0.3 nm (by AFM)
Back Surface	Fine-ground, Ra =0.8 μm - 1.2 μm
TTV	⩽ 15 μm
LTV	⩽10 μm
BOW	⩽ 20 μm
Laser Mark	/
Cleaning/ packaging	Class 100 clean room cleaning no scratch,dig and crack and vacuum packaging derived nitrogen, 25 pieces in one cassette packaging

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C plane Patterned sapphire substrates

Crystal Materials	99,996%, High Purity, Monocrystalline Al_2O_3	
Grade	Prime	
Orientation	C-plane (0001) to M-plane(1-100) 0.2°± 0.1°	
Diameter	50.8 mm ± 0.1 mm	100.0 mm ± 0.2 mm
Patterned Specification	Diameter: 2.7 ± 0.15 μm; Spacing: 0.3 ± 0.15 μm; Depth: 1.75 ± 0.15 μm	
Pattern Type	3 μm pitch, Cone Type	
Thickness	430 μm ± 15 μm	650 μm ± 15 μm
Primary flat Orientation	A-plane (1 1 -2 0) ± 0.2°	
Primary flat length	16.0 mm ± 1.0 mm	30.0 mm ± 1.0 mm
Front Surface	epitaxial ready polished	
Back Surface	Fine-ground, Ra =0.8 μm - 1.2 μm	
TTV	≤8 μm	≤10 μm
BOW	≤8 μm	≤15 μm
Warp	≤8 μm	≤15 μm
Cleaning/ packaging	Class 100 clean room cleaning and vacuum packaging, 25 pieces in one cassette packaging	