

Silicon wafer



Single silicon crystal have good thermal conductivity and low density, and they are usually used as substrates for 3-5 μ m mid-wave infrared optical windows and optical filters. ICC can provide silicon wafer blanks, polished wafers and coated wafers of various specifications.

Items	Specifications	Customized	Testing Equipment
Size	4", 6", 8"		
Type	N,P,Intrinsic silicon	Customer Request	
Thickness	280 ~ 1000 μ m	Customized	Micrometer
Thickness Tolerance	$\pm 15\mu$ m		Micrometer
(BOW)	$\leq 30\mu$ m		Semiconductor Detector
TTV	$\leq 10\mu$ m		Semiconductor Detector
Resistivity	$> 10 (\Omega \cdot \text{cm})$	Customer Request	Four-probe resistance tester
Orientation	$\langle 100 \rangle \pm 0.5^\circ$; $\langle 110 \rangle \pm 0.5^\circ$; $\langle 111 \rangle \pm 0.5^\circ$	Customer Request	X-Ray Orientator
Parallelism	$< 0.05\text{mm}$		Micrometer
Surface Roughness	$< \text{Ra}0.8\mu\text{m}$		Surface Roughness Tester
Chips	$< 0.1\text{mm}$		Microscope
S/D	20/10		Naked Eye Inspection
Surface	Ground chip Double-sided polishing	Customized	

Custom size and specifications are available!