

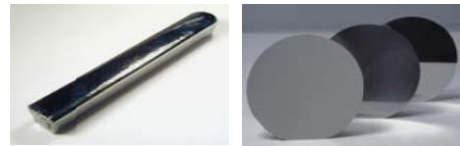


## Single Crystal Germanium

Germanium Wafer/Ingot

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**Single Crystal Germanium Wafer / Ingot**, grown by Vertical Gradient Freeze (VGF), thanks to the advantages of chemical stability and corrosion resistance, it is widely applied in the manufacturing of optical components, infrared lens and semiconductor devices. 2" 3" 4" & 6" all available, ingot with diameter 50-300 mm also can be supplied.



No.	Items	Standard Specifications			
1	Size	2"	3"	4"	6"
2	Diameter mm	50.8±0.3	76.2±0.3	100±0.5	150±0.5
3	Growth Method	VGF or CZ			
4	Conductivity	P/(Ga or In), N/Sb, Un-doped			
5	Orientation	(100)±0.5°	(100)±0.5°	(100)±0.5°	(100)±0.5°
6	Thickness μm	145, 175, (500-1000)			
7	Resistivity Ω-cm	0.001-50			
8	Mobility cm <sup>2</sup> /V.s	>200	>200	>200	>200
9	TTV μm max	5, 8, 10	5, 8, 10	5, 8, 10	5, 8, 10
10	Bow μm max	15	15	15	15
11	Warp μm max	15	15	15	15
12	Dislocation cm <sup>-2</sup> max	300	300	300	300
13	EPD cm <sup>-2</sup>	<4000			
14	Particle Counts a/wafer max	10 (at ≥0.5μm)			
15	Surface Finish	P/E, P/P or as required			
16	Packing	Single wafer container or cassette inside, carton box outside.			
17	Remark	Single or poly crystal ingot also available.			