



Material	Mono Germanium
Purity	99.999%
Growth method	CZ;
Conduction Type	N type
Orientation	<111>
Resitivity	5-40 ohm.cm
Optical transmittance(%)	46
Refractive index (10um)	4.0026
Poisson's ratio	$\leq 1.0 \times 10^{-4}$
Absorption coefficient(/cm)	≤ 0.03
Density(g/cm3)	5.33g/cm3
Young's modulus(Gpa)	103
Hardness(kg/cm2)	800
Poisson's ratio	0.28
Modulus of rapture(Mpa)	≥ 75
Melting point(/°C)	937
Specific heat (Cal/g.k.)	0.074
Thermal expansion coefficient (/°C)	6.1×10^{-8}
Thermal conductivity(WM-1K-1)	59

Inspector:

Date : 2020-11-13

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