

Quartz glass

Performance parameters of quartz glass

Material Properties	Unit	Quartz glass
Density	g/cm ³	2.20
Bending strength	MPa	80
Compressive strength	MPa	1100
Elastic modulus	GPa	220
Poisson's ratio	—	0.17
Young's Modulus	GPa	72

Thermal Properties	Unit	Quartz glass
Thermal conductivity	W/mK	1.38
melting point	°C	1730
Maximum operating temperature	°C	1200
linear expansion coefficient	10 ⁻⁶ /K	0.55

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Electrical Properties	Unit	Quartz glass
Dielectric constant	1 MHz	3.75
Breakdown voltage	V/cm	400
Dielectric loss	1 MHz	< 0.0004
Resistivity	Ω·cm	> 10 ¹⁸

Note: This value is for reference only and may vary slightly depending on the batch conditions.

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