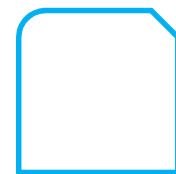


Substrate Dimensional Specifications

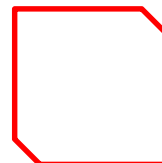
Size Specifications				
Nominal Dimensions	Inches		Millimeters	
	Min.	Max.	Min.	Max.
2.5x2.5"	2.470	2.500	62.74	63.50
3.0x3.0"	2.970	3.000	75.44	76.20
4.0x4.0"	3.970	4.000	100.84	101.60
5.0x5.0"	4.970	5.000	126.24	127.00
6.0x6.0"	5.970	6.000	151.64	152.40
7.0x7.0"	6.970	7.000	177.04	177.80



Low
Expansion



White
Crown

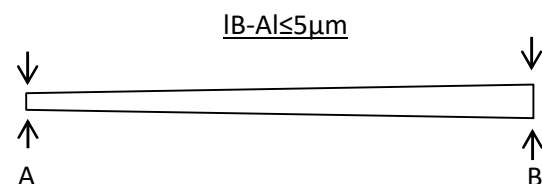


Quartz

NOTE: Corner notches are for substrate identification only, and do not indicate good or bad side.

Thickness Specifications				
Nominal Dimensions	Inches		Millimeters	
	Min.	Max.	Min.	Max.
0.060"	0.056	0.064	1.42	1.62
0.090"	0.086	0.094	2.18	2.39
0.120"	0.116	0.124	2.95	3.15

Parallelism Specification





Specification Data Sheet

Specification Data Sheet

Flatness Available				
Nominal Dimensions	Quartz (QZ)		Soda Lime	
	µm/ Total Surface		µm/ Total Surface	
	Master	Sub-master	Master	Print
2.5x2.5"	2	5	5	10
3.0x3.0"	2	5	5	10
4.0x4.0"	2	5	5	10
5.0x5.0"	2	5	7	12
6.0x6.0"	2	5	7	12
7.0x7.0"	2	5	7	15

Quality Grading	
Quality Grade	Defect Density
High	No pinholes @ defect sizes > 1µm with 90% probability
Test (limited availability)	<0.1 defects/ cm ² for defect size > 1µm

Quality Area

The quality area is defined as an area ½" smaller than the actual dimension of the plate.
 (¼" in from the edges of both front and back sides of the substrate.)