BREWSTER WINDOWS

These windows are used to produce polarized or near-polarized light from a laser. Considerations in choosing a Brewster window are surface flatness, parallelism, durability and thermal characteristics.

Calcium Fluoride (CaF2)

Dimensional tolerance ±0.005" (±0.13mm)
Clear Aperture 80% elliptical
Parallelism 3 min
Flatness 1 wave per inch at 633 nm
Surface Quality 40/20

CAT #	LENGTH		WIDTH		THICKNESS	
	in	mm	in	mm	in	mm
CF-BW-25	1.0	25.4	0.492	12.50	0.197	5.0
CF-BW-38	1.5	38.1	0.750	19.05	0.197	5.0
CF-BW-50	2.0	50.8	1.000	25.40	0.236	6.0
CF-BW-63	2.5	63.5	1.248	31.70	0.315	8.0
CF-BW-76	3.0	76.2	1.500	38.10	0.394	10.0
CF-BW-101	4.0	101.6	2.000	50.80	0.492	12.5

Germanium (Ge)

Dimensional tolerance ±0.005" (±0.13mm)
Clear Aperture 80% elliptical
Parallelism 3 min
Flatness 1/40 wave per inch at 10.6 um
Surface Quality 40/20

CAT#	LENGTH		WIDTH		THICKNESS	
	in	mm	in	mm	in	mm
GE-BW-41	1.650	41.90	0.402	10.20	0.079	2.0
GE-BW-52	2.071	52.60	0.500	12.70	0.079	2.0
GE-BW-63	2.480	63.00	0.602	15.30	0.079	2.0
GE-BW-73	2.890	73.40	0.701	17.80	0.079	2.0
GE-BW-84	3.307	84.00	0.799	20.30	0.118	3.0

Zinc Selenide CVD Grade (ZnSe)

Dimensional tolerance ±0.005" (±0.13mm)
Clear Aperture 80% elliptical
Parallelism 3 min
Flatness 1/40 wave per inch at 10.6 um
Surface Quality 40/20

CAT #	LENGTH		WIDTH		THICKNESS	
	in	mm	in	mm	in	mm
ZC-BW-26	1.043	26.50	0.402	10.20	0.079	2.0
ZC-BW-33	1.299	33.00	0.500	12.70	0.079	2.0
ZC-BW-39	1.535	39.00	0.591	15.00	0.118	3.0
ZC-BW-46	1.823	46.30	0.701	17.80	0.118	3.0
ZC-BW-52	2.047	52.00	0.787	20.00	0.118	3.0
ZC-BW-65	2.563	65.10	1.000	25.40	0.118	3.0

Custom sizes and specifications are available