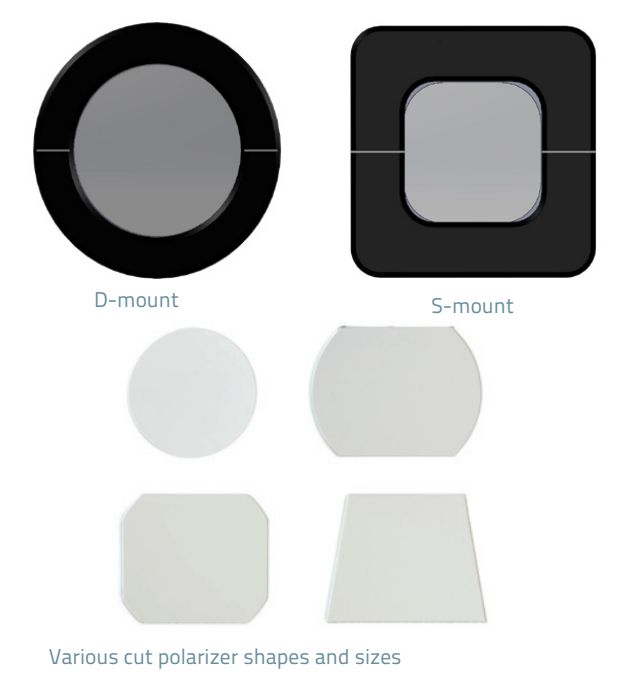


Polarizer Sizes and Mounting Options



Mounting options

Moxtek also offers to mount our polarizers in custom mounts which the customer provides or which Moxtek sources using the customer supplied drawing. Moxtek ensures that the polarizer meets the performance and visual specifications after the mounting. Please contact us for information about customized mounts.

Custom sizes

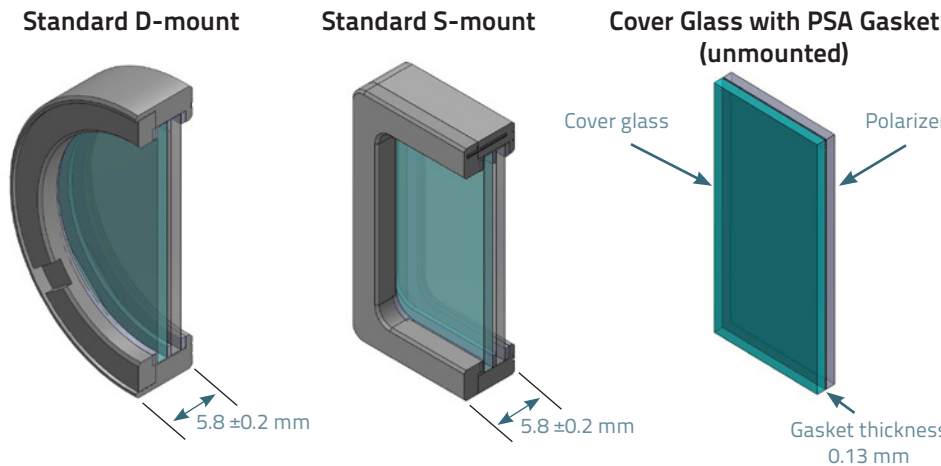
Moxtek offers custom sizing and shapes of polarizers for customers. For dimensional limits for specific shapes and glass substrates, please see tables on next page. Do not touch or clean the wire-grid polarizer surface otherwise the polarizer will be damaged.

Standard mounts

Moxtek can provide protective mounting for our polarizer plates that reduce the risk of damaging the wire-grid polarizer structure. These mounts come in standard sizes shown in the table below.

Standard mount size [mm]			
D-mounts (circular)		S-mounts (square)	
Size	Clear aperture	Size	Clear aperture
Ø 12.5	Ø 8.5	12.5 x 12.5	7.0 x 7.0
Ø 25.0	Ø 19.0	25.0 x 25.0	19.0 x 19.0
Ø 50.0	Ø 42.0	50.0 x 50.0	44.0 x 44.0
All mounts are 5.8 mm in thickness			

Features	Benefits
Mount material	6061 anodized aluminum
Frame	Good coefficient of thermal expansion
	Protection - don't handle or touch polarizer directly
	Cover glass mounted in frame to protect wire grid (optional)
Identification on Frame	Transmission axis (reference mark) (See reverse side for wire grid direction explanation.)
	Product name
Options	S-mounts (square) or D-mounts (circular)
	3 standard sizes (see table above), custom sizes on request
	Single polarizers with or without cover glass
	Double polarizer (with wire-grids facing inward for protection)



Polarizers can be assembled with a cover glass as shown. Unmounted polarizers can have a cover glass attached using a Pressure Sensitive Adhesive (PSA) gasket. Adding cover glass will protect the wire-grid polarizer surface but will slightly lower the overall transmission performance.

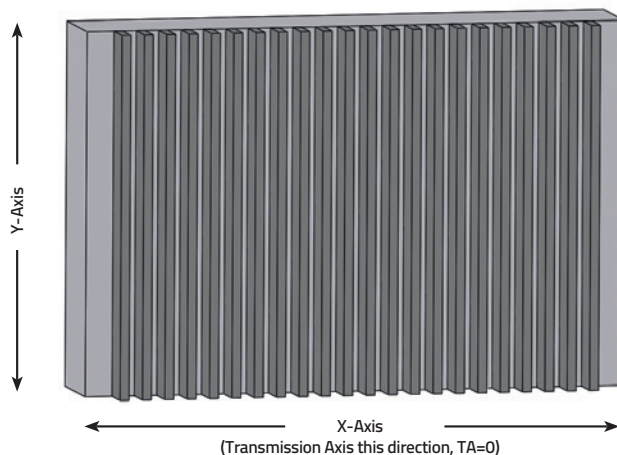
All cover glass is AR coated to reduce reflections.

Polarizer Sizes and Mounting Options

Minimum cut sizes & clear aperture [mm]												
Substrate	Minimum diameter	Dimension tolerance	Clear aperture	Minimum dimension	Dimension tolerance	Clear aperture	Minimum diameter	Dimension tolerance	Clear aperture	Minimum dimension	Dimension tolerance	Clear aperture
	Rounds ○			Square □			Rounds with cover glass ●			Square with cover glass ■		
0.7 mm Eagle XG	Ø 10	±0.15	Ø 7	4 x 4	±0.2	2 x 2	Ø 10	±0.4	Ø 6	6 x 6	±0.2	2 x 2
0.7 mm Fused Silica	Ø 10	±0.15	Ø 7	4 x 4	±0.2	2 x 2	Ø 10	±0.4	Ø 6	6 x 6	±0.2	2 x 2
0.7 mm Silicon	N/A	N/A	N/A	10 x 10	±0.4	6 x 6	N/A	N/A	N/A	N/A	N/A	N/A
1.0 mm Fused Silica	Ø 12.5	±0.2	Ø 9.5	10 x 10	±0.4	7 x 7	Ø 12.5	±0.4	Ø 8.5	10 x 10	±0.4	6 x 6
1.6 mm Borofloat	Ø 24	±0.4	Ø 21	12 x 12	±0.4	9 x 9	Ø 24	±0.5	Ø 20	12 x 12	±0.5	8 x 8
1.6 mm Fused Silica	Ø 24	±0.4	Ø 21	12 x 12	±0.4	9 x 9	Ø 24	±0.5	Ø 20	12 x 12	±0.5	8 x 8

Maximum cut sizes & clear aperture [mm]									
Substrate	Maximum diameter	Dimension tolerance	Clear aperture	Maximum dimension	Dimension tolerance	Clear aperture	Maximum dimension	Dimension tolerance	Clear aperture
	Rounds ○			Square □			Octagon ●		
0.7 mm Eagle XG	Ø 180	±0.15	Ø 177	126 x 126	±0.2	124 x 124	166	±0.1	164
0.7 mm Fused Silica	Ø 180	±0.15	Ø 177	126 x 126	±0.2	124 x 124	166	±0.1	164
0.7 mm Silicon	N/A	N/A	N/A	126 x 126	±0.4	122 x 122	166	±0.5	162
1.0 mm Fused Silica	Ø 180	±0.2	Ø 177	126 x 126	±0.4	123 x 123	166	±0.2	163
1.6 mm Borofloat	Ø 180	±0.4	Ø 177	126 x 126	±0.4	123 x 123	166	±0.4	163
1.6 mm Fused Silica	Ø 180	±0.4	Ø 177	126 x 126	±0.4	123 x 123	166	±0.4	163

Note for Silicon products: Rounds are not available and other shape dimensions vary slightly.
Please contact us for information about customized shapes that are not listed in the tables.



The Transmission Axis (TA) is referenced from the X-axis TA=0. TA is perpendicular to wire-grid.

Reference marks on mounts indicate transmission direction.