

We offer THz windows made of polymer and crystal materials.

1. Crystals

1.1 HRFZ-Si windows

Common specification:

| Material | HRFZ-Si |
|--|------------------------------------|
| Type | plano-plano |
| Available sizes, mm | to 150 |
| Diameter or cross-cut tolerance, mm | +0.0 / -0.1 |
| Thickness tolerance, mm | +/-0.1 |
| Clear aperture, % | >=90 |
| Parallelism, arc. min | 3 |
| Surface quality (two-sided polishing), scr/Big | 60/40 |
| Surface accuracy, mm | +/-0.01 deviation from ideal plane |
| Coatings | AR coatings upon request |

The following windows are available from stock:

| No. | Diameter | | Thickness mm |
|-----|----------|--------|-----------------|
| | mm | inches | |
| 1 | 25.4 | 1.0 | 1.0 |
| 2 | 38.1 | 1.5 | 1.0 |
| 3 | 50.8 | 2.0 | 1.0 |
| 4 | 76.2 | 3.0 | 1.0 |
| 5 | 101.6 | 4.0 | 1.0 |

Custom sizes are manufactured upon request.

1.2 THz grade crystal quartz and THz grade sapphire windows

Common specification:

| Material | THz grade crystal quartz (z-cut) and THz grade sapphire |
|--|---|
| Type | plano-plano |
| Dimensions tolerance, mm | +/-0.1 |
| Clear aperture, % | >=90 |
| Parallelism, arc. min | 5 |
| Surface quality (two-sided polishing), scr/dig | 80/50 |
| Surface accuracy, mm | +/-0.01 deviation from ideal plane |
| Coating (for crystal quartz) | AR coatings upon request |

The following THz grade crystal quartz windows are available from stock:

| No. | Diameter | | Thickness mm |
|-----|----------|--------|-------------------|
| | mm | inches | |
| 1 | 25.4 | 1.0 | 1.0, 2.0, and 3.0 |
| 2 | 38.1 | 1.5 | 1.0, 2.0, and 3.0 |
| 3 | 50.8 | 2.0 | 1.0, 2.0, and 3.0 |



Alternate sizes and custom designs are manufactured upon request. The following sizes of THz grade crystal quartz are available:

- for crystals grown along Z-axis: X >=100 mm, Y >=150 mm and Z up to 35 mm;
- for crystals grown along X-axis: X up to 30 mm, Y >=100 mm and Z >=125 mm.

THz grade sapphire windows are available upon request. The finished parts of different dimensions are available from stock and supplied within a week. Please check the Optics stock on our website. For price quotation and delivery please fill in our Request form.

2. Polymers

2.1 TPX windows

| Material | TPX |
|---------------------------|---------------------------------------|
| Type | plano-plano, wedged (wedge is 6 mrad) |
| Available diameters, mm | to 100 |
| Dimensions tolerance, 1mm | + /-0.25 |
| Clear aperture, % | >=90 |
| Surface quality, scr/dig | 80/50 (two-sided polishing) |
| Surface roughness | Rz 0.025 (TPX) |
| Surface accuracy, mm | ±0.01 deviation from ideal plane |

The following TPX windows are available from stock:

| No. | Diameter | | Thickness mm |
|-----|----------|--------|-----------------|
| | mm | inches | |
| 1 | 25.4 | 1.0 | 2.0 |
| 2 | 38.1 | 1.5 | 3.0 |
| 3 | 50.8 | 2.0 | 3.5 |

Custom sizes (max thickness 30 mm) are manufactured upon request. The finished parts of different dimensions are available from stock and supplied within a week. Please check the Optics stock at our web site. For price quotation and delivery please fax or e-mail us.

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