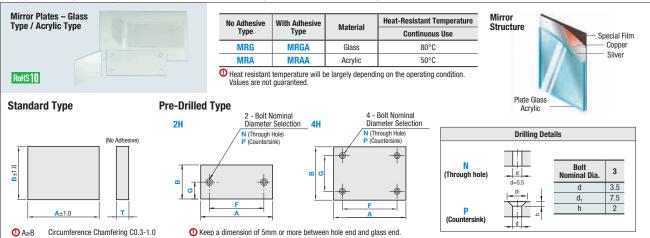
Mirror Plates

Glass Type / Acrylic Type

Two types of mirror, glass and Acrylic, to check work are available. Mounting holes are selectable from through hole or countersink



Ctandard

Transparent Resin / Glass / Mirror / Engineered Plastic Plates

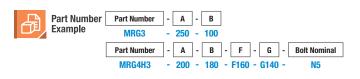
otanuai u	l				
	Part No		1mm Increment		
	Туре		T	Α	В
No Adhesive MRG	With Adhesive	(Glass Mirror)	3	10-300	10-300

Comparison of Glass and Acrylic Mirror Features

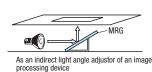
	Weight	Scratch Resistance	Break	Heat Resistance	Chemical Resistance
Glass Mirror	Heavy (Specific Gravity 2.5)	0	Frangible	80°C	0
Acrylic Mirror	Light (Specific Gravity 1.2)	Х	Irrefrangible	50°C	X (Organic solvents resistance)

Pre-Drilled

Part Number			1mm Increment			Select Mounting Holes		
Туре		T	Α	В	F	G	N (Through Hole)	P (Countersink)
No Adhesive With Adhesive MRG MRGA (Glass Mirr MRA (Acrylic Mir	′ 111	3	10–300	10-300	9–241	9–241	5	3







For easy attachment, the size of double-faced adhesive tape is smaller than that of the mirror. (Approx. 5-10 mm)

Mirrors are shipped without seal attached. Seal thickness is 2 mm.

10 It may fall due to its own weight depending on its size. Avoid mounting only by

O Avoid use in the areas splashed with water, which may cause dirt and

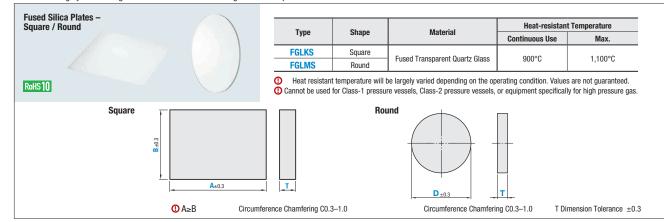
Seals of with Adhesive Type



Fused Silica Plates

Square / Round

Quartz Glass highly excels in light transmittance in ultraviolet region. Can be specified in 1 mm increments.



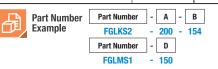
Square

Part Number	1mm Increment		
Туре	T	Α	В
	1	20~150	20~150
FGLKS	2		
(Square Type)	3	20~300	20~300
	5		

Round

Part Number	1mm Increment	
Туре	T	D
	1	20~150
FGLMS	2	
(Round Type)	3	20~300
	5	

Application



Optical Transparency of Quartz Glass Features of Quartz Glass

Ultraviolet - Visible Spectrum

Visible - Infrared Spectrum

Wavelength/nm

Transparent guartz glass highly excels in light transmittance at all wavelengths as compared to other general glasses (silicate glasses).

In the infrared region, it has better transmission and transparency range than normal glasses except for special glasses for the infrared.

In ultraviolet region, especially short wavelength ultraviolet region, it shows excellent transparency.

Features of Oxy-Hydrogen Fused Transparent Quartz Glass Quartz glasses made by melting crystals with Oxyhydrogen flame.

 $\frac{1}{500}$ It has high purity and little air bubbles.

- Make sure that plates are clean before use.

Precaution for Use

changes.

heating or cooling.

objects attached.

Best suited as the material for tools for semiconductor manufacturing and physicochemical equipments.

- Transparent quartz glasses have to be kept away from water and

Do not place them in high-temperature atmosphere if they are wet.

- Note that the glasses may be devitrified depending on the operating

More resistant to quick heating and cooling and ten times stronger than normal glasses. However, not resistant to extreme temperature

Has low thermal conductivity and may have cracks due to local, quick

The heat and impact resistance becomes lower as glasses get thicker. - If temperature increases (decreases) with other objects attached to the quartz glasses, they may break due to thermal expansion differentials. Be careful when increasing (decreasing) temperature with other

If quartz glasses are used at high temperature for a long period of time, they may be deformed little by little due to their own weight or other loads. Their life span may become longer if support methods or conditions of use are designed specific to the application.

When using in high temperature, dry them well before use.

4 Corner Radius R Code CR

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As a cover for the UV irradiation device

Adds a round radius to the 4 corners of the square type.
Ordering Code Ex. CR10 R = 5mm increments ① 5≤CR≤100 O Available for only FGLKS $0.010 \le A (B) - R (2R)$

Mechanical Characteristics of Quartz Glass

Purity (%)	≥99.9
OH (ppm)	200
Density (gcm³)	2.2
Vickers Hardness (Mpa)	8,900
Young's Modulus (Gpa)	74
Rigidity Modulus (Gpa)	31
Poisson Ratio	0.17
Bending Strength (Mpa)	94.3
Compression Strength (Mpa)	1,130
Tensile Strength (Mpa)	49
Torsion Strength (Mpa)	29



3090