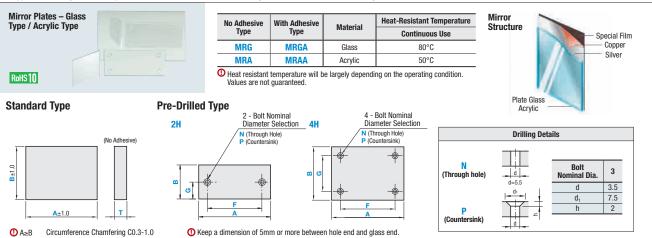
# **Mirror Plates**

## **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



Transparent Resin / Glass / Mirror / Engineered Plastic Plates

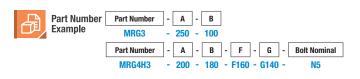
Statiuaru							
	Part No	1mm Increment					
	Туре		T	Α	В		
No Adhesive	With Adhesive						
MRG	MRGA	(Glass Mirror)	3	10-300	10-300		
MRA	MRAA	(Acrylic Mirror)					

### **Comparison of Glass and Acrylic Mirror Features**

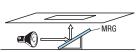
	Weight	Scratch Resistance	Break	Heat Resistance	Chemical Resistance	
Glass Mirror	Heavy (Specific Gravity 2.5)	0	Frangible	80°C	0	
Acrylic Mirror	Light (Specific Gravity 1.2)	Х	Irrefrangible	50°C	X (Organic solvents resistance)	

#### **Pre-Drilled**

Part Number			1mm Increment				Select Mounting Holes	
Туре Т			Α	В	F	G	N (Through Hole)	P (Countersink)
No Adhesive With Adhesive MRG MRGA (Glass Mirror) MRA MRAA (Acrylic Mirror)	2H 4H	3	10-300	10-300	9–241	9–241	5	3







As an indirect light angle adjustor of an image processing device

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. 1 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

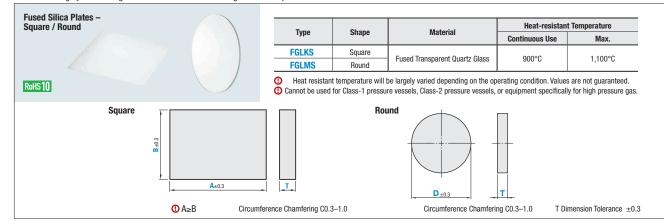
#### **Seals of with Adhesive Type**



## **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		А	Available Types B 1 mm Increment					
Туре	T	1mm Increment	20~100	101~150	151~200	201~250	251~300	
FGLKS	1	20~50	•	_	_	_	_	
		51~100	•	_	_	_	_	
		101~150	•	•	•	•	•	
	2 3 5	20~100	•	_	_	_	_	
		101~150	•	•	_	_	_	
		151~200	•	•	•	_	_	
		201~250	•	•	•	•	_	
		251~300	•	•	•	•	•	

Optical Transparency of Quartz Glass Features of Quartz Glass

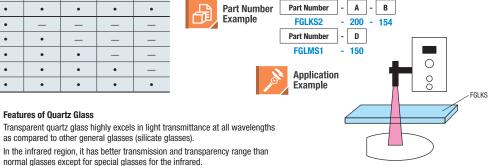
Ultraviolet - Visible Spectrum

Visible - Infrared Spectrum

Wavelength/nm

#### Round

Part Number		Available Types D 1 mm Increment						
Туре	T	20~100	101~150	151~200	201~250	251~300		
FGLMS	1	•	_	_	_	_		



#### As a cover for the UV irradiation device

# 4 Corner Radius R Code CR Adds a round radius to the 4 corners of

#### R = 5mm increments ① 5≤CR≤100 O Available for only FGLKS ① 10 ≤ A (B) - R (2R)

the square type.
Ordering Code Ex. CR10

#### When using in high temperature, dry them well before use. - Note that the glasses may be devitrified depending on the operating

- Make sure that plates are clean before use.

In ultraviolet region, especially short wavelength ultraviolet region,

Features of Oxy-Hydrogen Fused Transparent Quartz Glass

Quartz glasses made by melting crystals with Oxyhydrogen flame.

Best suited as the material for tools for semiconductor manufacturing and

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

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

it shows excellent transparency.

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

physicochemical equipments.

Precaution for Use

- More resistant to quick heating and cooling and ten times stronger than normal glasses. However, not resistant to extreme temperature changes.
- Has low thermal conductivity and may have cracks due to local, quick heating or cooling. 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 objects attached.
- 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.

#### **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