

Metal Coated Mirrors

Product Description:

Metal coated mirrors are used for a broad spectral range with a high reflectivity. Precision-Micro Optics provides gold coated, silver coated and aluminum coated mirrors with a thin protective dielectric coating layer to make them resistant to tarnish and oxidation.

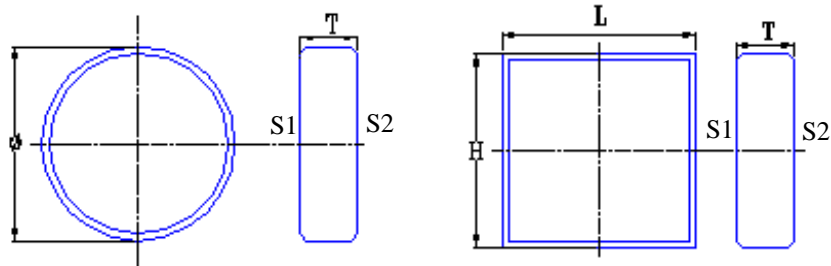
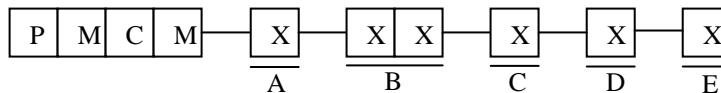


Figure 1: A schematic drawing of one circular and one rectangular metal coated mirrors

Specifications (S1 Surface Only):

| | |
|---------------------|--------------------------------|
| Material | Fused Silica, BK7 |
| Dimension Tolerance | +0.0, -0.2mm |
| Reflectivity | >99.6% |
| Flatness | $\lambda / 8 @ 632.8\text{nm}$ |
| Clear Aperture | > 85% |
| Surface Quality | 40~20 |
| S2 Surface | Specified by customer |
| Coating | Ag, Au or Al Protected |

Ordering Information:



| | | |
|---|----------|----------------|
| A | Material | 1= BK7 |
| | | 2=Fused Silica |
| | | 0=Special |

| | | |
|----------|----------------|--|
| B | Size | 01=10.0X3.0mm |
| | | Check standard size table for standard size |
| | | 00=Custom size |
| C | Shape | 1=Circle |
| | | 2=Rectangle |
| | | 0=Special |
| D | Coating | 1=Silver Coated Mirror |
| | | 2=Gold Coated Mirror |
| | | 3=Aluminum Coated Mirror |
| | | 0=Special |
| E | Mount | 1=Yes |
| | | 0=no |

Standard Size Table (For Circular Shape)

| Dimension P/N | ϕ (mm) | T (mm) |
|------------------|----------------|-----------|
| 01 | 10.0 | 3.0 |
| 02 | 12.7 | 3.0 |
| 03 | 15.0 | 4.0 |
| 04 | 20.0 | 4.0 |
| 05 | 25.0 | 5.0 |
| 06 | 30.0 | 5.0 |
| 07 | 35.0 | 6.0 |
| 08 | 40.0 | 8.0 |
| 09 | 45.0 | 8.0 |
| 10 | 50.0 | 10.0 |
| 11 | 75.0 | 12.0 |
| 12 | 80.0 | 12.0 |
| 13 | 100.0 | 15.0 |
| 14 | 120.0 | 15.0 |
| 15 | 150.0 | 18.0 |

Standard Size Table (For Rectangular Shape)

| Dimension P/N | H (mm) | L (mm) | T (mm) |
|------------------|-----------|-----------|-----------|
| 01 | 10.0 | 10.0 | 3.0 |
| 02 | 10.0 | 15.0 | 3.0 |
| 03 | 10.0 | 20.0 | 4.0 |
| 04 | 20.0 | 20.0 | 4.0 |
| 05 | 20.0 | 25.0 | 5.0 |

| | | | |
|----|-------|-------|------|
| 06 | 20.0 | 30.0 | 6.0 |
| 07 | 25.0 | 25.0 | 6.0 |
| 08 | 25.0 | 40.0 | 6.0 |
| 09 | 25.0 | 50.0 | 8.0 |
| 10 | 30.0 | 30.0 | 6.0 |
| 11 | 30.0 | 60.0 | 8.0 |
| 12 | 40.0 | 40.0 | 8.0 |
| 13 | 40.0 | 80.0 | 12.0 |
| 14 | 50.0 | 50.0 | 10.0 |
| 15 | 80.0 | 80.0 | 12.0 |
| 16 | 100.0 | 100.0 | 15.0 |
| 17 | 120.0 | 120.0 | 15.0 |
| 18 | 150.0 | 150.0 | 18.0 |