

Paraboloid mirror is a curved mirror that converts diverging light from a point of light source into parallel light.

By making the paraboloid a curved surface, it is possible to retrieve parallel light more efficiently than a spherical concave mirror. An example use of parabolid mirror is as a lamp reflector of a microscope.

- It obtains high performance condensing by precision aspheric surface processing.
- It can provide long-term stability because it has a protective scratch-resistant coating over aluminum.
- It is easy to position the light source at the focusing point because there is a hole on the axis of the paraboloid.
- By entering the thick parallel light, it allows the light to be collected at one point.



▶ Different focal length, outer diameter and hole sizes not mentioned on-line or in our catalog are available as a custom product upon request.

Also available for ellipsoidal TCEA mirror for focusing light of the lamp at one point.

Tempax[®]

Al + SiO₂

Tempax[®] is a registered trademark of SCHOTT AG company.

Attention

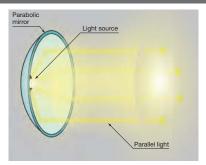
Specifications

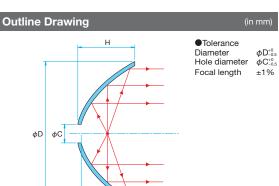
Material

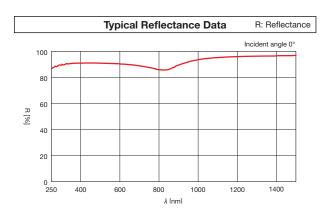
Coating

- ▶ Light does not reach to the mirror surface when high directivity source is placed at focal point, so it is not available to get the effect of paraboloid mirror.
- Light near the optical axis center is not reflected by the hole in the mirror, there is a case that intensity distribution of the parallel light becomes ring-shaped.
- When focusing the light emitted from a parabolic mirror by a lens, it does not focused at one point by the influence of light incident on the lens directly from the lamp.

Schematic







Specifications				
Part Number	Dimension φD [mm]	Focal length f [mm]	Thickness* H [mm]	Hole dimension ϕC [mm]
TCPA-100C-12.5-SH18	φ100	12.5	46	φ18
TCPA-105C-15-SH23	φ105	15	42	φ23
TCPA-152C-17-SH30	φ152	17	76.5	φ30
TCPA-152C-30-SH35	φ152	30	44.5	φ35

^{*} The thickness "H" is design value and there is a possibility of individual variability in the actual product. It is Not guaranteed value.



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remtosecona Lasei

Frameless
Accuracy Guarantee

High Power

Ultra Broadband

Dielectric Coating

Aluminum Coati

Gold Coating