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Accuracy Guarantee **High Power Ultra Broadband Dielectric Coating**

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Mechanics

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.



Schematic





Specifications Material Tempax® Coating AI + SiO₂ Tempax[®] is a registered trademark of SCHOTT AG company.

Guide

- Different focal length, outer diameter and hole sizes not mentioned on-line or in our catalog are available as a custom product upon
- Also available for ellipsoidal TCEA mirror for focusing light of the lamp at one point. Reference B036

Attention

- 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.



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

request.

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