The lens of short focal length, which is thicker, has been made to a step structure and to a thin plate shape with the characteristics of the lens. It can be used as a substitute for the lens for a loupe and LED light.

- Since it is processed directly on the acrylic plate of 2mm thickness, it is difficult to be deformed and the performance is stable.
- There are four focal lengths offered from 5mm to 20mm.
- Compared with the lens of the same focal length, it is lighter and lens will not protrude from the edge of holder.

Specifications

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Focal length [mm]</th>
<th>Prism pitch [mm]</th>
<th>Clear Aperture [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRL-50S-05P</td>
<td>5</td>
<td>0.05</td>
<td>±10</td>
</tr>
<tr>
<td>FRL-50S-10P</td>
<td>10</td>
<td>0.05</td>
<td>±20</td>
</tr>
<tr>
<td>FRL-50S-15P</td>
<td>15</td>
<td>0.05</td>
<td>±30</td>
</tr>
<tr>
<td>FRL-50S-20P</td>
<td>20</td>
<td>0.08</td>
<td>±40</td>
</tr>
</tbody>
</table>

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Attention

- There is a direction to the Fresnel lens. Surface that is processed is equivalent to convex.
- When used in laser, since diffracted light is generated in the step structure, some of the light will also leaked around the focused spot.
- Characteristics as the lens is obtained in the range of 5μm, but it is not guaranteed the accuracy of the focal length out of the scope of the clear aperture.
- When rubbing strongly the processed surface of the fresnel lens, performance may be degraded. Please do not touch directly the surface.
- When exposed to high temperature of 80°C or more, it may be deformed and performance can be severely degraded.
- Please do not use organic solvents such as acetone and chloroform which will dissolved and damage the step structure.
- At the time of delivery, it is delivered with a protection sheet affixed to the surface. Please remove this protective sheet before using.

Guide

- This product is available with different focal lengths and sizes that are not listed on-line or in our catalog. Please contact our Sales Team with your requests.

Outline Drawing (in mm)