Aspherical Glass Lenses

Lightweight, high-performance aspherical glass lenses for various optical electronics applications.

■ Features
● "One Shot" precision manufacturing process for an extremely compact, lightweight and high-performance lens
● High-quality processing and measurement techniques for superior performance
● Short focal length for compact size
● High numerical aperture achieved via aspherical design
● Wide temperature and humidity range for increased reliability and stability
● Various lenses and lens material available for many different applications

■ Recommended Applications
● Pickup lens for optical drive devices
● Collimator lens for laser beam printers
● Coupling lens for optical communication systems
● Image formation lens for sensors
● Imaging device for CCD, CMOS

■ Explanation of Part Numbers

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
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<tbody>
<tr>
<td>E</td>
<td>Y</td>
<td>L</td>
<td>G</td>
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Product Code

EYLG Aspherical Glass Lenses

Lens Barrel

U without M with

Series

D For Optical disc drives
L For Laser beam printers
F For Optical Communication Systems
S For Sensors
C For Cameras

Anti-reflection Coating

A 1550 mm
B 1310 mm
C 1480 mm
F Single Coating
M Multi Coating
N None

Design No.

Lens Design Number

Additional Spec.

Special Spec. such as Lens Barrel etc.

■ Ratings

<table>
<thead>
<tr>
<th>Item</th>
<th>Ratings</th>
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</thead>
<tbody>
<tr>
<td>Operating Temperature Range</td>
<td>−30 to +85 °C</td>
</tr>
<tr>
<td>Storage Temperature Range</td>
<td>−40 to +100 °C</td>
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</table>

■ Please contact the factory for packaging methods.

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

Feb. 2006
### Specifications

- **For optical disc drives**

<table>
<thead>
<tr>
<th>Product Group</th>
<th>Objective Lens</th>
<th>Collimator Lens</th>
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<tbody>
<tr>
<td>Item</td>
<td>Part No.</td>
<td>EYLG50M073</td>
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<tr>
<td>Wave Length (nm)</td>
<td>650</td>
<td>650</td>
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<tr>
<td>Numerical Aperture</td>
<td>0.60</td>
<td>0.65</td>
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<tr>
<td>Focal Length (mm)</td>
<td>3.30</td>
<td>3.05</td>
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<td>Working Distance (mm)</td>
<td>1.782</td>
<td>1.696</td>
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<td>Lens Diameter (mm)</td>
<td>φ5.00</td>
<td>φ5.00</td>
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<tr>
<td>Mass (Weight) (mg)</td>
<td>52.0</td>
<td>49.4</td>
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<td>Abbe Number</td>
<td>64</td>
<td>58</td>
</tr>
<tr>
<td>Cover Glass (mm)</td>
<td>0.6</td>
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</table>

*build-to-order manufacturing*

### Dimensions in mm (not to scale)

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**Panasonic**

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