

Lead-Free Aspherical Glass Lens

with High Coupling Efficiency for Optical Communication

Corresponding to Wide-angle Laser Diode (LD)

NEW
2011
FLGS3 Series
Coupling efficiency improved approx. 7% with 1 x 1 mm square in industry smallest size maintained.


Features

- Expanded aspherical lens aperture contributes around 7% performance improvement in terms of coupling efficiency, this is based on high refractive index glass and original nano machining process.
- Dielectric multilayered AR (Anti Reflection) coating will be cover from O-Band to L-Band which is popular wave length for optical communication, and optional for visible light.
- Compliant with RoHS 6.
- One side Au (Gold) plating is also optional, it's easy for brazing (soldering) assembly.

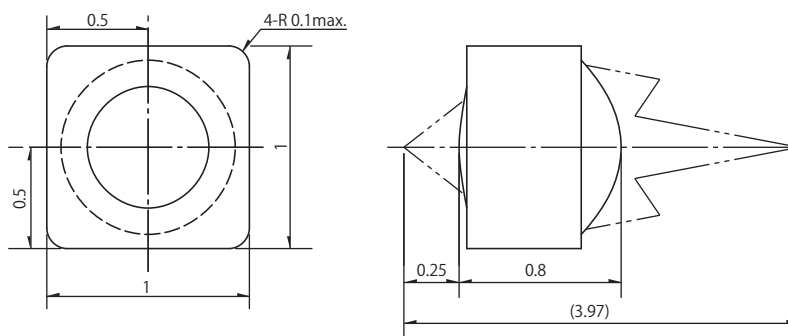
Applications

- Optical communication modules
- Micro/pico projectors

Typical Specifications

Items	Specifications
Wavelength (Standard)	1310nm、1550nm
Effective NA	0.65 x 0.13 (About 30% NA expand commared with current products)
Magnification	x5
Focal length	0.528 mm
Object-to-image distance	3.97mm
Wave aberration(RMS)	0.047 λ
Transmissivity	98% (1310nm、1550nm)
Operating temperature	-40°C~+85°C
Storage temperature	-40°C~+100°C

Dimensions



Unit:mm

Precautions when handling our products

1. For the export of products which are controlled items subject to foreign and domestic export laws and regulations, you must obtain approval and/or follow the formalities of such laws and regulations.
2. Products must not be used for military and/or antisocial purposes such as terrorism, and shall not be supplied to any party intending to use the products for such purposes.
3. Unless provided otherwise, the products have been designed and manufactured for application in equipment and devices which are sold to end-users in the market, such as AV (audio visual) equipment, home electronic equipment, office and commercial electronic equipment, information and communication equipment or amusement equipment. The products are not intended for use in, and must not be used for, any application of nuclear equipment, driving control equipment for aerospace or any other unauthorized use.
With the exception of the above mentioned banned applications, for applications involving high levels of safety and liability such as medical equipment, burglar alarm equipment, disaster prevention equipment and undersea equipment, please contact an Alps sales representative and/or evaluate the total system on the applicability. Also, implement a fail-safe design, protection circuit, redundant circuit, malfunction protection and/or fire protection into the complete system for safety and reliability of the total system.
4. Before using products which were not specifically designed for use in automotive applications, please contact an Alps sales representative.

Cautions for using this catalog

1. The specifications herein are an overview of the specifications. Obtain official specifications before use.
2. The colors of the products in the catalog may slightly differ from those of the actual products.
3. The external appearance, functions and other specifications herein may be changed for improvement and other reasons without prior notice.
Furthermore, the products herein may discontinue without prior notice.
4. Optical device are subject to export regulations under the Foreign Exchange Law and the Foreign Trade Law. Export outside Japan is prohibited unless specifically authorized by the Minister of Economy, Trade and Industry.
5. All product names, company names and names of standards described in this catalog are trademarks or registered trademarks of their respective owners.
6. The contents of this catalog are according to Alps Electric as of June 2011.
7. This catalog is valid until the end of December 2011.

Inquiries about this product

Products Information Center
+81 (3) 5499-8154
Products Information Site
<http://www.alps.com/products/e/>

ALPS ELECTRIC CO., LTD.

1-7, Yukigaya-otsukamachi, Ota-ku, Tokyo, 145-8501, Japan