



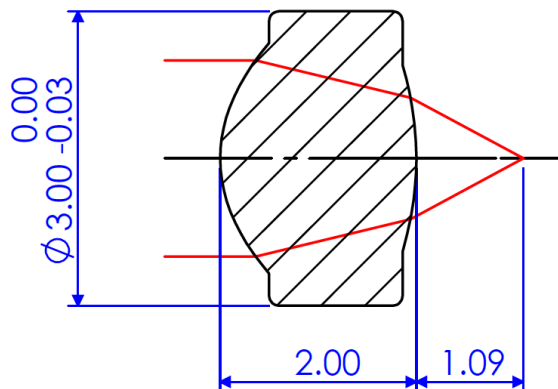
## D3.0mm NA0.56 Collimating Lens

### Key Parameters

Diameter=3.0mm

NA=0.56

EFL=2.0mm / BFL=1.09mm



### Application

Laser Collimation / Laser Pointer / Laser Tag / Laser Sensing  
Industrial Areas / Biochemical / Laser Measurement

### Feature

- ◆ Aspherical Molding Glass Lens
  - For high temperature, low deformation, good reliability and abrasive resistance
- ◆ NA0.56 for divergent angle to 59 °
- ◆ General dimension size and big N.A. for bigger divergent angle collimation

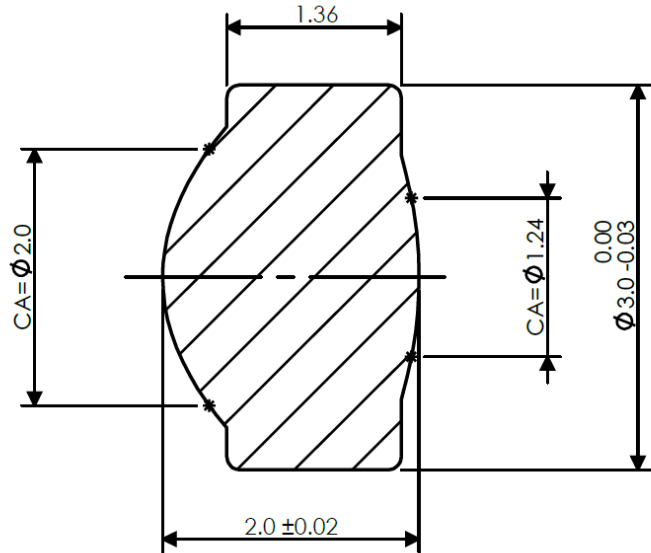
### Introduction

Aspherical lenses are lenses with surfaces which are not a portion of sphere. Aspherical lenses are more superior in many applications than conventional lenses. One well designed aspherical lens can have the same or better performance than multiple spherical lenses. Therefore it reduces the number of lenses in one optical system and makes system lighter and more compact. Nowadays, by advanced high technology of production, aspherical lens has been successfully made in large quantity and meanwhile the cost is competitive against conventional high grade optical system. We provide various kinds of aspherical lenses. This document shows the specification of lens used in laser collimating. Besides the off-the-shelf lenses, customized lenses are also feasible based on customer's requirements.



**Specifications**

|                              |                     |
|------------------------------|---------------------|
| Material                     | D-ZK3               |
| Diameter(mm)                 | 3.0 0/-0.03         |
| Design Wavelength(nm)        | 780                 |
| Clear Aperture(mm)           | 1.24                |
| EFL(mm)                      | 2.0±1%              |
| BFL(mm)                      | 1.09±1%             |
| N.A.                         | 0.56                |
| Center Thickness(mm)         | 2.0± 0.02           |
| AR Coating(Optional)<br>R<1% | 400-700nm           |
|                              | 600-1050nm          |
| AR Coating(Optional)<br>R<3% | 500-850nm           |
| Decentering                  | < 3 mins            |
| Wavefront Aberration         | RMS <0.05 $\lambda$ |
| Surface Quality              | 40/20               |

**Package**