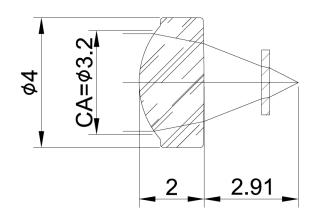
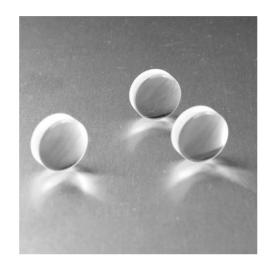


## **D4.0mm NA0.42 Collimating Lens**

## **Key Parameters**

Diameter=4.0mm NA=0.42 EFL=4.0mm / BFL=2.91mm





### **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
- NA0.42for divergent angle to 46°
- 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. Therefor 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	CDGM, D-ZK3	
Diameter(mm)	4.0 0/-0.03	
Design Wavelength(nm)	405	
Clear Aperture(mm)	2.5	(1.32) (0.02) R1 R2 PS
EFL(mm)	4.0±1%	
BFL(mm)	2.97±1%	
N.A.	0.42	
Center Thickness(mm)	2.0 ± 0.03	
AR Coating(Optional)	400-700nm	
R<1%	600-1050nm	S S
AR Coating(Optional) R<3%	500-850nm	2 2.91
Decentering	< 3 mins	
Wavefront Aberration	RMS <0.05 λ	
Surface Quality	40/20	]

# Package

