



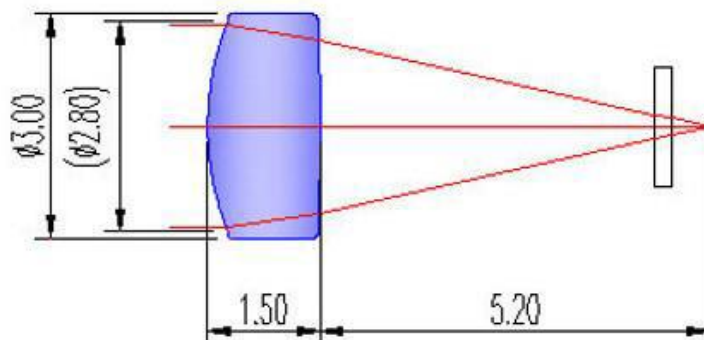
D3.0mm NA0.22 Collimating Lens

Key Parameters

Diameter=3.0mm

NA=0.22

EFL=6.0mm / BFL=5.2mm



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
- ◆ NA0.22 for divergent angle to 24 °
- ◆ 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	CDGM, D-ZK3
Diameter(mm)	3.0 0 /-0.03
Design Wavelength(nm)	635
Clear Aperture(mm)	2.3
EFL(mm)	6.0±1%
BFL(mm)	5.2±1%
N.A.	0.22
Center Thickness(mm)	1.5 ± 0.03
AR Coating(Optional) R<1%	400-700nm 600-1050nm
AR Coating(Optional) R<3%	500-850nm
Decentering	< 3 mins
Wavefront Aberration	RMS <0.05 λ
Surface Quality	40/20

The technical drawing shows a lens with two curved surfaces, R1 and R2. The center thickness is 1.50 mm. The diameter is 3.00 mm. The clear aperture is 2.30 mm. The drawing also indicates a diameter of 2.7 mm and a clear aperture of 2.6 mm for a portion of the lens. A dimension of 1.23 mm is shown for the distance from the center to the edge of the lens.

Package

