

Replication technology is the key asset of Anteryon's know-how and capability



Aspherical Collimator AC-320 T(610-690)

Description

NA=0.30; EFL=7.5mm; Highly corrected, hybrid Polymer on Glass lens.

Application

The Aspherical Collimator is designed to collimate the divergent beam from a semiconductor laser. The lens corrects for the laser window present in the TO-can.

Options

Other AR-coats are available for visible and Infrared light bands from 400nm. up to 2µm.

Ordering Number

4322 113 8163

SPECIFICATIONS

November 2014

1. OPTICAL PARAMETERS

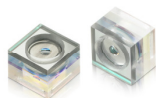
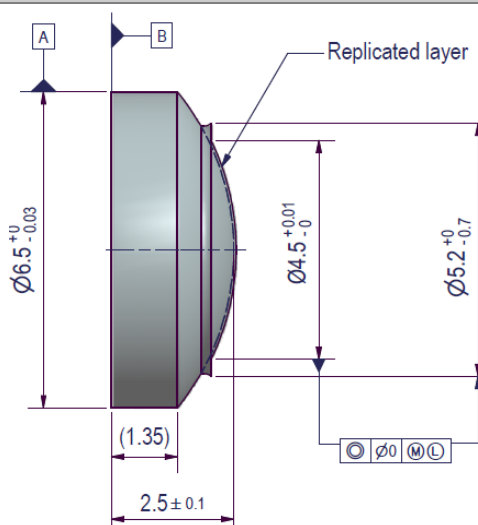
Design Wavelength (λ)	650	nm
Numerical Aperture (NA)	0.30	
Effective Focal length (EFL)	7.5	mm
Back Focal Length through 0.25mm BK7 (BFL)	6.1	mm
Max on-axis RMS Wave Front Aberration (RMS)	0.040	λ
Field radius at which RMS increases 0.04 λ (FR)	0.15	mm
Chromatic shift of back focus: (dEFL/d λ)	0.8	$\mu\text{m}/\text{nm}$
Transmittance (AR coat at both sides) (T)	97	%

3. ENVIRONMENTAL STABILITY

Operating temperature:	$-30 < T < +85^{\circ}\text{C}$
Storage temperature:	$-40 < T < +85^{\circ}\text{C}$
Stability according test standards:	
IEC 68-2-1, Ab (cold storage)	-40°C / 168 hr
IEC 68-2-2, Bb (dry heat storage)	70°C / 168 hr
IEC 68-2-3, Ca (damp heat)	60°C / 95% RH / 168 hr
IEC 68-2-14, Na (temperature change)	-40°C / 85°C ; 100 cycles / 15 min
IEC 68-2-30, Db (cyclic humidity)	-40°C / 85% RH; 25°C / 100% RH; 21cycles / 24 hr

2. MECHANICAL PARAMETERS

Clear aperture (CA)	4.5	mm
Lens Diameter	6.5	mm
Edge Thickness	1.35	mm
Center Thickness	2.50	mm
Max eccentricity of asphere to ref A	0.025	mm
weight	0.27	g



Wafer Optics



Lasers



Planar Optics