

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



Aspherical Collimator AC-069 T(610-930)

Description	NA=0.18; EFL=15mm; 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.
Ordering Number	4322 113 44291

SPECIFICATIONS

16 November 2012

1. OPTICAL PARAMETERS

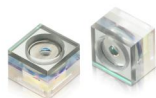
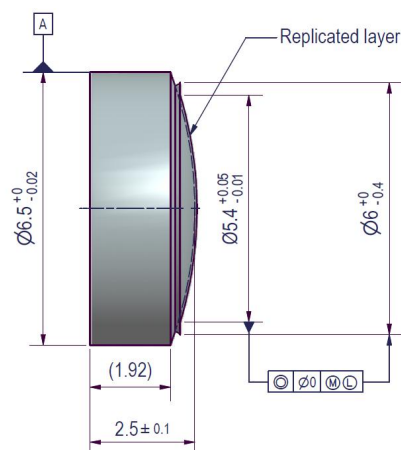
Wavelength range (λ)	610 - 930	nm
Numerical Aperture (NA)	0.18	
Effective Focal length (EFL)	15.0	mm
Back Focal Length through 0.25mm BK7 (BFL)	13.5	mm
Max on-axis RMS Wave Front Aberration (RMS)	0.030	λ
Field radius at which RMS increases 0.04 λ (FR)	0.3	mm
Chromatic shift of back focus: (dEFL/d λ) ; 610 - 930nm	1.8 - 0.6	$\mu\text{m}/\text{nm}$
Transmittance (AR coat at both sides) (T)	95	%

3. ENVIRONMENTAL STABILITY

Operating temperature:	-30 < T < +85°C
Storage temperature:	-40 < T < +85°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)	5.4	mm
Lens Diameter	6.5	mm
Edge Thickness	1.92	mm
Center Thickness	2.5	mm
Max eccentricity of asphere to ref A	0.040	mm
weight	0.3	g



Wafer Optics



Lasers



Planar Optics