

Aspherical Glass Lens

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Panasonic Electronic
Devices Nitto Co., Ltd.

1. TENTATIVE SPECIFICATION

Collimator Lens

【Part No.】EYLGULF340

Design Specification Proposal

	Parameter	Unit	Basic design	Change of the Glass Material
1	Design Wavelength	nm	785	785
2	Focal length	mm	10.000	9.997
3	Numerical aperture		0.39	0.39
4	Magnification		0	0
5	Objective distance	mm	∞	∞
6	Working distance	mm	8.163	8.162
7	Cover glass	mm	0.3mm n=1.5	0.3mm n=1.5
8	Surface1 effective diamater	mm	$\phi 7.800$	$\phi 7.800$
9	Surface2 effective diamater	mm	$\phi 7.222$	$\phi 7.222$
10	Glass Material		PBK40 (n=1.53073),vd=63.5	L-BSL7(n785=1.50883),vd=64.1
11	Lens diamater	mm	$\phi 9.3$	$\phi 9.3$
12	Lens thickness	mm	2.80	2.80
13	Weight	mg	285	284
14	Transmission	%	≥ 96	≥ 96
15	Image height	mm	0.175 (1degree)	0.175 (1degree)
16	Wavefront aberrarion On-Axis Off-Axis	λ rms	0.0001 0.0418	0.0004 0.0418
17	Part No.		EYLGULF340	EYLGULF406

