

Aspherical Glass Lens

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Panasonic Electronic
Devices Nitto Co., Ltd.

1. TENTATIVE SPECIFICATION

Collimator Lens

【Part No.】EYLGULM357

Design Specification Proposal

	Parameter	Unit	Basic design	Change of the Glass Material
1	Design Wavelength	nm	785	785
2	Focal length	mm	21.00	20.99
3	Numerical aperture		0.179	0.179
4	Magnification		0	0
5	Objective distance	mm	∞	∞
6	Working distance	mm	19.476 (Without cover glass)	19.470 (Without cover glass)
7	Cover glass	mm	0.3mm n=1.5	0.3mm n=1.5
8	Surface1 effective diameter	mm	$\phi 7.500$	$\phi 7.500$
9	Surface2 effective diameter	mm	$\phi 7.200$	$\phi 7.200$
10	Glass Material		PBK40 (n785=1.50868) vd=63.5	L-BSL7 (n785=1.50883) vd=64.1
11	Lens diameter	mm	$\phi 8.8$	$\phi 8.8$
12	Lens thickness	mm	2.23	2.23
13	Weight	mg	257	256
14	Transmission	%	≥ 96	≥ 96
15	Image height	mm	0.367(1degree)	0.367(1degree)
16	Wavefront aberration 1) On-Axis Off-Axis	λ rms	0.0000 0.0255	0.0001 0.0253
17	Part No.		EYLGULF357	EYLGULF398

