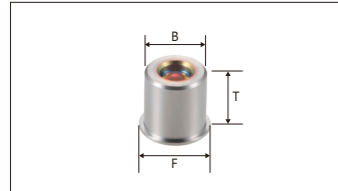
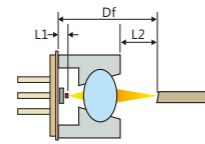


Metal holder

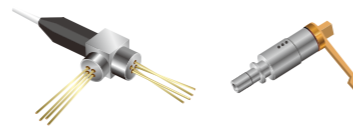
TO-CAN LD & PD Coupling



Function



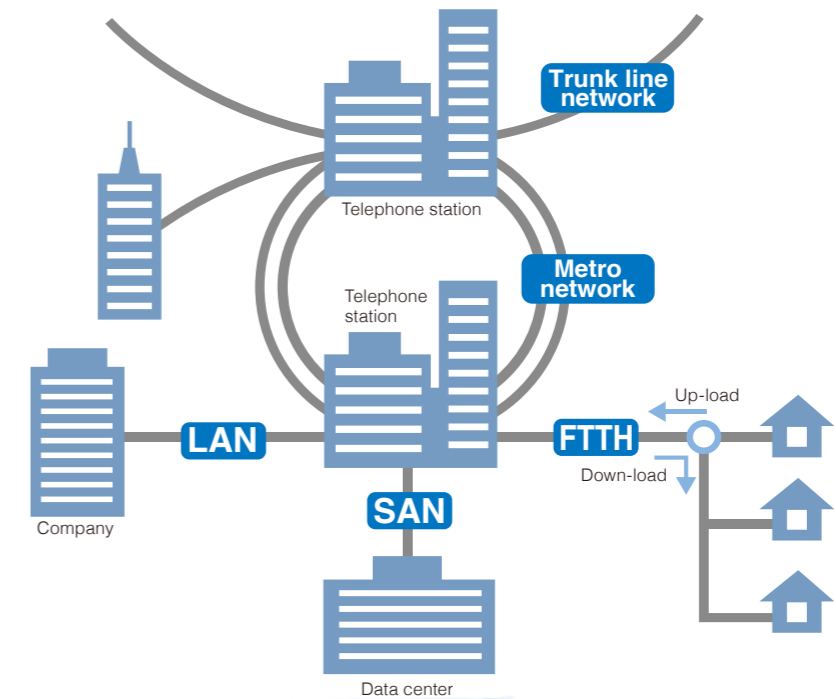
Application



Product Number	Design Wavelength λ[nm]	Effective NA		Magnification	f [mm]	L1 (WD) [mm]	L2 [mm]	OI (Df) [mm]	Beam Φ [mm]	Reference Target Efficiency	C/G		Applicable Wavelength λ[nm]		Application	Dimension [mm]			Material		Note Replacement & NEW
		LD/PD	Fiber								t	n	1310	1550		T	F	B	Glass	Holder	
FLBAHR403A	1310	0.40	0.14	2.8	1.11	1.27	3.54	7.51	—	-4.5dB≥	—	—	●	●	LD TO-56	3.97	4.3	3.75	K-VC89	SF20F	
FLBAURDA2C	1310	0.40	0.14	2.8	1.09	1.50	3.53	7.50	—	—	—	—	●	●	LD TO-56	3.97	4.3	3.75	K-VC89	SF20F	FLBAURDA1C
FLBBCR402A	1310	0.40	0.13	3.2	1.26	1.27	4.70	8.67	—	—	—	—	●	●	LD TO-56	3.97	4.3	3.75	K-VC89	SF20F	
FLBCSR401A	1310	0.40	0.10	4.0	1.35	1.27	6.21	10.18	—	-3dB≥	—	—	●	●	LD TO-56	3.97	4.3	3.75	K-VC89	SF20F	
FLBECR402A	1310	0.60	0.10	6.0	1.01	1.26	6.38	9.88	—	-2dB≥	—	—	●	●	LD TO-56	3.5	4.3	3.75	K-VC89	SF20F	
FLBEMR401A	1310	0.60	0.12	5.0	0.84	2.15	3.50	8.50	—	—	—	—	●	●	LD TO-46	5	5.4	5	K-VC89	SF20F	
FLBH8R401A	1310	0.50	0.13	4.0	0.96	1.27	3.54	7.51	—	-3dB≥	—	—	●	●	LD TO-56	3.97	4.3	3.75	K-VC89	SF20F	
FLBHHR402A	1310	0.50	0.13	4.0	0.96	1.62	3.89	7.86	—	—	—	—	●	●	LD TO-56	3.97	4.3	3.75	K-VC89	SF20F	FLBHHR401A
FLBT8R401A	1310	0.50	0.16	3.1	0.43	1.00	1.50	3.50	—	—	—	—	●	●	LD TO-38	2	3.6	3.2	K-VC89	SF20F	
FLBT8R401A	1310	0.50	0.14	3.5	0.51	1.29	2.00	4.39	—	—	—	—	●	●	LD TO-38	2.39	3.6	3.2	K-VC89	SF20F	
FLBTAR402E	1310	0.50	0.13	4.0	0.49	1.00	2.25	4.25	—	—	—	—	●	●	LD TO-38	2	3.6	3.2	L-LAH84	SF20F	FLBTAR401E
FLDPCR401A	1310	0.33	0.16	0.5	0.92	1.20	2.58	5.73	—	—	—	—	●	●	PD TO-46	3.15	5.4	4.7	K-VC89	SF20F	
FLDKBR402A	1577	0.60	0.13	4.8	1.28	2.62	6.18	12.12	—	—	—	—	●	●	LD TO-46	5.95	5.45	5	K-VC89	SF20F	
FLDKKR401A	1310	0.60	0.13	4.5	1.28	2.15	5.45	10.45	—	—	—	—	●	●	LD TO-46	5	5.45	5	K-VC89	SF20F	

Aspheric glass lens selection guide

Product line-up can be freely combined to accommodate all kinds of applications.



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Cautions for using this catalog

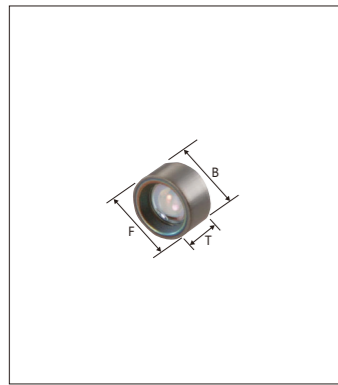
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Aspherical Glass Lenses

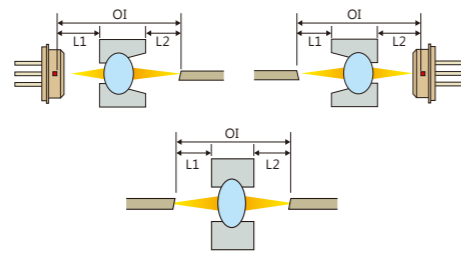


Metal holder

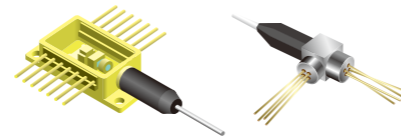
LD & Fiber Coupling



Function

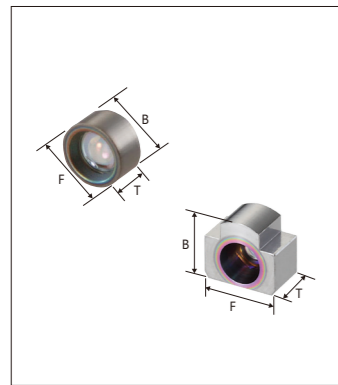


Application

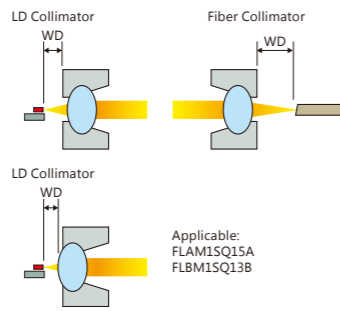


Product Number	Design Wavelength		Effective NA		Magnification	f [mm]	L1 (WD) [mm]	L2 [mm]	OI (Df) [mm]	Beam Φ [mm]	Reference Target Efficiency	C/G		Applicable Wavelength λ[nm]		Application	Dimension [mm]			Material		Note Replacement & NEW
	λ[nm]	LD	Fiber	t								n	1310	1550	T		F	B	Glass	Holder		
FLAA1SG0BA	1310	0.40	0.10	4.0	1.37	1.10	6.30	9.00	-	-3dB≥	0.30	1.52	●	●	Can LD	1.6	3.0	3.0	P-SK57	SUS430JL	FLAA1SG01A	
FLKNARG21A	405	0.65	0.20	3.3	1.89	1.25	6.72	10.88	-	-	0.25	1.51	●	●	Can LD	2.92	5.6	5.6	L-BAL35	SF20F		

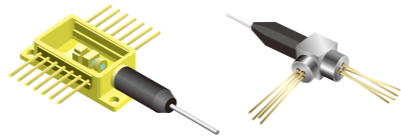
LD & Fiber Collimator



Function



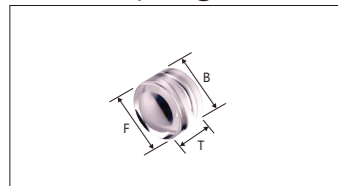
Application



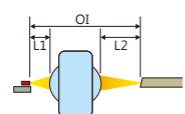
Product Number	Design Wavelength		Effective NA		Magnification	f [mm]	L1 (WD) [mm]	L2 [mm]	OI (Df) [mm]	Beam Φ [mm]	Reference Target Efficiency	C/G		Applicable Wavelength λ[nm]		Application	Dimension [mm]			Material		Note Replacement & NEW
	λ[nm]	LD	Fiber	t								n	1310	1550	T		F	B	Glass	Holder		
FLAE1SG07A	1310	-	0.20	-	2.50	1.65	-	-	0.50	-	-	-	-	●	●	Fiber	1.6	3	3	L-BAL35	SUS430JL	FLAE1SG01A
FLAG1SG02A	1310	-	0.17	-	4.00	3.24	-	-	0.80	-	-	-	-	●	●	Fiber	1.6	3	3	L-BAL35	SUS430JL	FLAG1SG01A
FLAM1SQ15A	1310	0.60	-	-	0.70	0.30	-	-	0.84	-2dB≥	-	-	-	●	●	Chip LD	1.03	2.5	2.5	K-VC89	SUS430	FLAM1SQ11A
FLAN1SG08A	1310	-	0.30	-	1.80	1.02	-	-	0.36	-	-	-	-	●	●	Fiber	1.6	3	3	L-BAL35	SUS430JL	FLAN1SG01A
FLAN9RG01A	1310	-	0.30	-	1.80	1.02	-	-	0.36	-	-	-	-	●	●	Fiber	1.6	2.5	2.5	P-SK57	SF20F	
FLAQ0SG05A	1310	-	0.17	-	2.47	1.83	-	-	0.49	-	-	-	-	●	●	Fiber	1.4	1.8	1.8	P-SK57	SUS430	FLAQ0SG01A
FLAS0SG06A	1310	-	0.30	-	1.12	0.46	-	-	0.22	-	-	-	-	●	●	Fiber	1.4	1.8	1.8	P-SK57	SUS430	FLAS0SG01A
FLASBRG01A	1310	-	0.30	-	1.12	0.67	-	-	0.22	-	-	-	-	●	●	Fiber	1.0	1.8	1.8	P-SK57	SF20F	
FLBM1SQ13B	1310	0.60	-	-	0.70	0.30	-	-	0.84	-2dB≥	-	-	-	●	●	Chip LD ΔType	2.03	3.6	3.2	K-VC89	SUS430	FLBM1SQ11B
FLBU1SG04A	1310	-	0.22	-	3.00	2.24	-	-	0.60	-	-	-	-	●	●	Fiber	1.6	3	3	L-BAL35	SUS430JL	FLBU1SG01A
FLKU1RR23D	443	0.40	-	-	1.85	1.07	-	-	1.48	-	0.25	1.51	430~680nm	●	●	Can LD	2.0	4	4	L-BAL42	SF20F	FLKU1RR21D

Bare lens - Round shape -

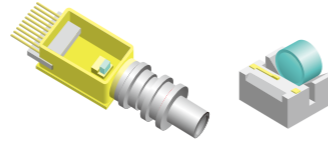
LD Coupling



Function

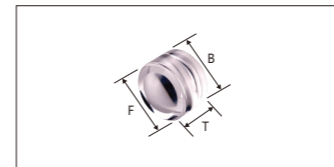


Application

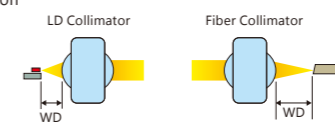


Product Number	Design Wavelength		Effective NA		Magnification	f [mm]	L1 (WD) [mm]	L2 [mm]	OI (Df) [mm]	Beam Φ [mm]	Reference Target Efficiency	C/G		Applicable Wavelength λ[nm]		Application	Dimension [mm]			Material		Note Replacement & NEW
	λ[nm]	LD	Fiber	t								n	1310	1550	T		F	B	Glass	Holder		
FLGD1SG07B	1310	0.50	0.10	5	0.55	0.25	2.95	4.00	-	-3dB≥	-	-	-	●	●	Chip LD	0.8	1.00	1.00	L-BAL35	-	FLGD1SG01B

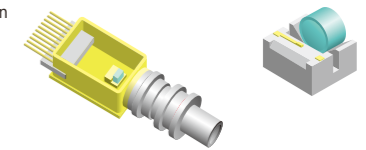
LD & Fiber Collimator



Function



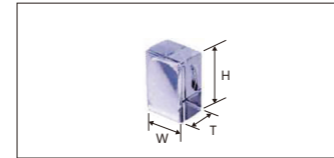
Application



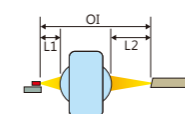
Product Number	Design Wavelength		Effective NA		Magnification	f [mm]	L1 (WD) [mm]	L2 [mm]	OI (Df) [mm]	Beam Φ [mm]	Reference Target Efficiency	C/G		Applicable Wavelength λ[nm]		Application	Dimension [mm]			Material		Note Replacement & NEW
	λ[nm]	LD	Fiber	t								n	1310	1550	T		F	B	Glass	Holder		
FLGA2SG02A	1550	-	0.20	-	2.10	1.70	-	-	0.84	-	-	-	-	●	●	Fiber	0.94	1.80	1.80	L-BAL35	-	FLGA2SG01A
FLGF1SG03B	1310	0.60	-	-	0.50	0.16	-	-	0.60	-2dB≥	-	-	-	●	●	Chip LD	0.8	1.00	1.00	L-BAL35	-	FLGF1SG01B
FLGG1SG02A	1310	-	0.17	-	1.99	1.58	-	-	0.68	-	-	-	-	●	●	Fiber	0.65	1.00	1.00	L-BAL35	-	FLGG1SG01A

Bare lens - Square & Rectangle shape-

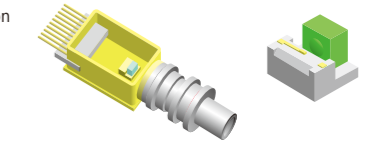
LD Coupling



Function

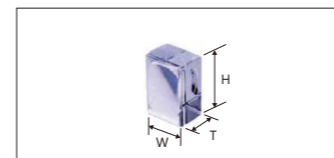


Application

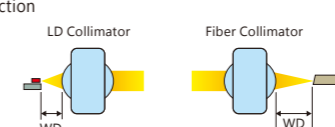


Product Number	Design Wavelength		Effective NA		Magnification	f [mm]	L1 (WD) [mm]	L2 [mm]	OI (Df) [mm]	Beam Φ [mm]	Reference Target Efficiency	C/G		Applicable Wavelength λ[nm]		Application	Dimension [mm]			Material		Note Replacement & NEW
	λ[nm]	LD	Fiber	t								n	1310	1550	T		H	W	Glass	Holder		
FLGS1SG0EA	1310	0.50	0.10	5	0.55	0.25	2.92	3.97	-	-3dB≥	-	-	-	●	●	Chip LD	0.8	1.0	1.0	L-BAL35	-	FLGS1SG01A
FLGS3SQ17A	1550	0.65	0.13	5	0.53	0.25	2.92	3.97	-	-2dB≥	-	-	-	●	●	Chip LD	0.8	1.0	1.0	L-LAH84	-	FLGS3SQ11A
FLGS4SE17A	1310	0.50	0.10	5	0.44	0.25	2.28	3.25	-	-3dB≥	-	-	-	●	●	Chip LD	0.72	1.0	0.6	L-LAH84	-	FLGS4SE11A
FLGS5SG05A	1310	0.50	0.10	5	0.55	0.25	2.92	3.97	-	-3dB≥	-	-	-	●	●	Au plating of GS1	0.8	1.0	1.0	L-BAL35	-	FLGS5SG01A
FLWK9SG03A	1310	0.42	0.17	2.5	0.7	0.54	2.04	3.40	-	-	-	-	-	●	●	Chip LD	0.8	1.0	1.0	L-BAL35	-	FLWK9SG01A
FLGSDSEA1A	1550	0.43	0.108	4	0.572	0.4	3.06	4	-	-	-	-	-	●	●	Chip LD	0.54	1.0	1.0	L-LAH84	-	
FLGSKSEA2A	1550	0.43	0.108	4	0.572	0.4	3.06	4	-	-	-	-	-	●	●	Chip LD	0.54	1.0	0.67	L-LAH84	-	FLGSKSEA1A

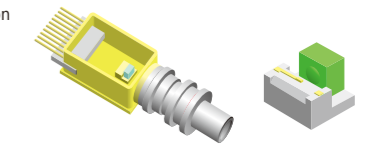
LD & Fiber Collimator



Function

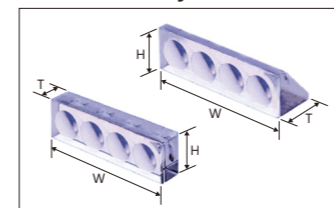


Application

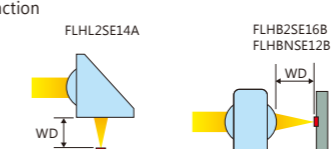


Product Number	Design Wavelength		Effective NA		Magnification	f [mm]	L1 (WD) [mm]	L2 [mm]	OI (Df) [mm]	Beam Φ [mm]	Reference Target Efficiency	C/G		Applicable Wavelength λ[nm]		Application	Dimension [mm]			Material		Note Replacement & NEW
	λ[nm]	LD/PD	Fiber	t								n	1310	1550	T		H	W	Glass	Holder		
FLGP1SG0BA	1310	0.60	-	-	0.50	0.16	-	-	0.60	-2dB≥	-	-	-	●	●	Chip LD	0.82	1.0	1.0	L-BAL35	-	FLGP1SG09A
FLGP3SE19A	1310	0.75	-	-	0.50	0.16	-	-	0.75	-2dB≥	-	-	-	●	●	Chip LD	0.79	1.0	1.0	L-LAH84	-	FLGP3SE11A
FLGP4SQ13A	1310	0.72	-	-	0.50	0.16	-	-	0.72	-2dB≥	-	-	-	●	●	Chip LD	0.79	0.94	0.94	L-LAH84	-	FLGP4SQ11A
FLGP7SE17A	1310	0.50	-	-	0.50	0.16	-	-	0.50	-	-	-	-	●	●	Chip LD	0.72	1.0	0.7	L-LAH84	-	FLGP7SE11A
FLGQ1SG07A	1310	0.60	-	-	0.70	0.30	-	-	0.84	-2dB≥	-	-	-	●	●	Chip LD	0.84	1.0	1.0	L-BAL35	-	FLGQ1SG01A
FLGQ6SE14A	1310	0.7	-	-	0.45	0.16	-	-	0.63	-	-	-	-	●	●	Chip LD	0.75	1.0	1.0	L-LAH84	-	FLGQ6SE11A
FLGQ9SE1DA	1310	0.50	-	-	0.45	0.16	-	-	0.45	-	-	-	-	●	●	Chip LD	0.73	1.0	0.6	L-LAH84	-	FLGQ9SE11A
FLGU1SG08A	1310	-	0.17	-	1.99	1.58	-	-	0.68	-	-	-	-	●	●	Fiber	0.72	1.0	1.0	L-BAL35	-	FLGU1SG06A
FLGU4SG08A	1310	-	0.12	-	2.00	1.62	-	-	0.48	-	-	-	-	●	●	Fiber	0.67	1.0	0.6	L-BAL35	-	FLGU4SG01A
FLGUDSG04A	1310	-	0.16	-	1.50	1.12	-	-	0.48	-	-	-	-	●	●	Fiber	0.69	1.00	0.60	L-BAL35	-	
FLWQRSEA1A	1310	0.60	-	-	0.45	0.14	-	-	0.54	-	-	-	-	●	●	Chip LD	0.8	1.5	0.6	L-LAH84	-	FLGPJSE11A
FLWQBSEA2C	1310	0.50	-	-	0.50	0.20	-	-	0.50	-	-	-	-	●	●	Chip LD	0.53	1.0	0.6	L-LAH84	-	FLWQBSEA11F

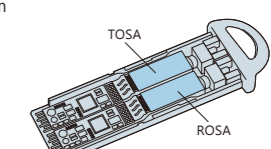
Lens Array for PD coupling



Function



Application



Product Number	Design Wavelength		Effective NA		Magnification	f [mm]	L1 (WD) [mm]	L2 [mm]	OI (Df) [mm]	Beam Φ [mm]	Reference Target Efficiency	C/G		Applicable Wavelength λ[nm]		Application	Dimension [mm]			Material		Note Replacement & NEW
	λ[nm]	PD	Fiber	t								n	1310	1550	T		H	W	Glass	Holder		
FLHB2SE16B	1310	0.176	-	-	1.7	1.3	-	-	0.60	-	-	-	-	●	●	Pitch 0.75mm	0.71	1.44	3.05	L-LAH84	-	NEW
FLHBNSE12B	1310	0.4	-	-	0.75	0.75	-	-	0.60	-	-	-	-	●	●	Pitch 0.75mm	0.5	1.44	3.25	L-LAH84	-	FLHBNSE11A
FLHL2SE14A	1550	0.2	-																			