YAMAMURA PHOTONICS CO., LTD.

Product Information Vol. L1

LENS CAP/FLAT WINDOW CAP For Optoelectronic Device

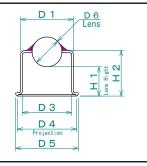
Inquiry and Contact… Marketing Department TEL: +81-45-441-8271 FAX: +81-45-441-6362 URL: http://www.yama-ph.co.jp/index_e.html (inquiry Form)

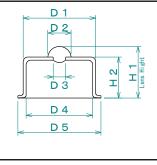
Outline

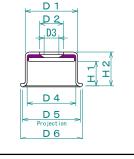
Lens caps and flat window caps are made for optoelectronic packaging with lenses or glass windows sealed to metal cans of various shape.

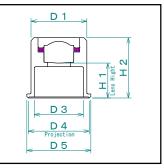
We propose the best optical designs and products in accordance with various requirements through the best choice of materials based on our technology.

Our products have gained the trust of customers through high quality products which can pass hard environmental tests of optoelectronics.









BALL LENS CAP

FUSED LENS CAP

FLAT WINDOW CAP ASPHERICAL LENS CAP

The above pictures are schematic drawings of our products. Please kindly tell us every required dimension when you inquire about custom-designed caps. We also lineup various standard products and the detail dimensions are listed in the reverse side.

Features

 \bigcirc Lens and Window

Type: Ball Lens, Fused Lens, Flat Glass Window, Aspherical Lens

Material: Glass

AR Coating: Design can be customized on your requests.

 \bigcirc Metal Shell

Shape: Standard or Custom Design

Material: Kovar, 50NiFe, Others

○ Hermeticity

Helium Leak Rate: Less than 1x10⁻⁹Pa m³/s

 \bigcirc Eco-Friendly Products

We can provide RoHS and REACH compliant products. Lead(Pb) free or others are available.

This products information is subject to changed or updated without notice.

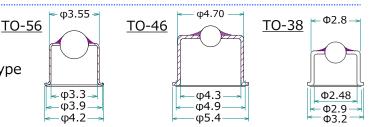
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Standard Product

Yamamura Photonics have various standard products including TO-56, TO-46 and TO-52 such as the following our typical products. In addition, we can provide custom products to meet every requirement. Please feel free to contact us.

BALL LENS CAP

Shell Material: 50NiFe Lens Materials: BK7, TAF3, High Index type



				$\varphi_{11} = \varphi_{11} = \varphi_{11}$		φ3.1		
Cantura		٦	Typical inde	x	Lens	AR	Pb Free	
Cap type	Glass type	nd	1310nm	1550nm	Diameter	Coating	FUFIEE	
TO-56	BK7	1.51680	1.50358	1.50065	φ1.5			
	TAF3	1.80420	1.77961	1.77553	(52.0		0	
	High Index	2.00069	1.95038	1.94511	φ2.0			
TO-46	BK7	1.51680	1.50358	1.50065	φ1.5	0	0	
TO-38	TAF3	1.80420	1.77961	1.77553	(51.2			
	High Index	2.00069	1.95038	1.94511	φ1.2			

FUSED LENS CAP

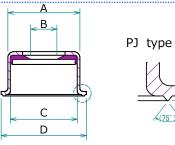
Shell Material: Kovar

Lens Material: Borosilicate glass

Cap type	Glass type	Α	В	C ^{**} effective	D	Е	AR Coating	•	
		2.64						А	
TO-52	Borosilicate	3.1	φ4.66	φ0.8	φ4.28	φ5.35	\bigcirc		
	glass	3.5					0		D
Mini-Fused		3.16 ^{total}	φ1.96	φ0.8	φ1.72	φ2.41			Ë,

FLAT WINDOW CAP

Shell Materials	:	Kovar, 50NiFe
Window Material	:	Borosilicate glass



Non-PJ type



Cap type	Α	B **effective diameter	С	D	PJ type	Non-PJ	AR Coating	Pb Free
Mini type	φ2.50	φ0.6min	φ2.20	φ3.08	0	-		
TO-56	φ3.55	φ1.0min	φ3.30	φ4.20	0	-		
TO-46	φ4.72	φ2.0min	φ4.35	φ5.35	0	0	0	\bigcirc
φ9mm	φ6.64	φ2.5min	φ6.20	φ7.27	0	-		
TO-5	φ8.25	φ4.5min	φ7.85	φ9.10	-	0		

SLANTED WINDOW CAP

Shell Material

: 50NiFe

Window Material	:	Borosilicate glass
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Cap type	Α	В	C * effective diameter	D	E	F	AR coating	Pb Free	J	
H3.35	Φ4.73	Φ2.5	φ1.8min	4.34	5.35	3.35max	\bigcirc	\bigcirc		
H3.9	ψ4.75	ψ2.5	ψι.οπιπ	4.54	5.55	3.9max	0	0		->

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