

How to choose your holder?

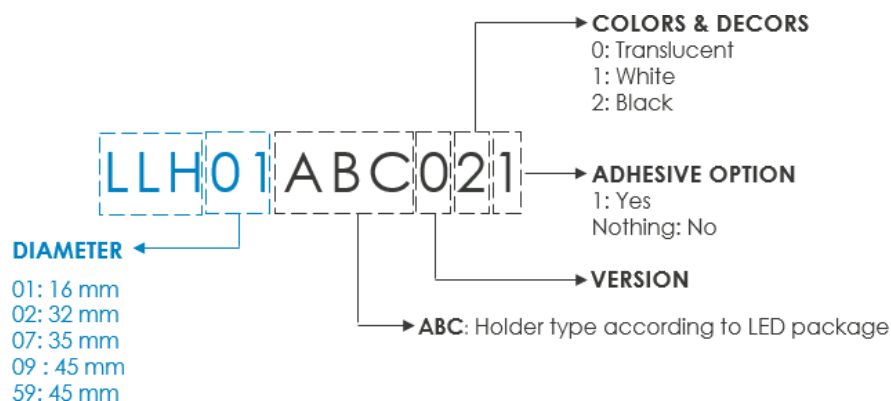
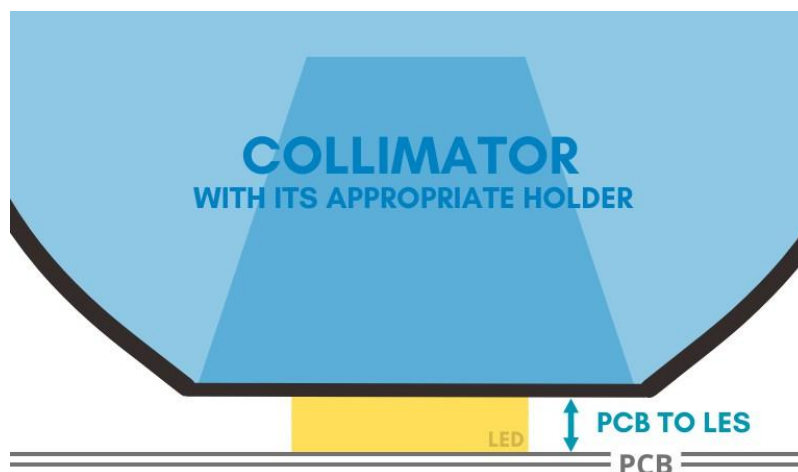
Achieving an optimal focus position of the lens is the key factor for a successful LED/Collimator integration. Different holder references are available to position collimators to considered LED.

PCB to LES height: the Light Emitting Surface (LES) position must be known and is specific to each LED. It can be found on LED manufacturer datasheet.

Here below are 2 examples with and without dome.



Correct position is achieved when PCB to LES height from datasheet is equal or close to the PCB to LES of this document



LLH01* - ø 16mm holder – LLC01/LLC02/LLC12/LLC22 series

Adhesive tape thickness: 0.05 or 0.10 mm

All measurements are in millimeters.

Last digits of the reference: 0 (clear), 1 (white), 2 (black)

01 (clear with adhesive), 11 (white with adhesive), 21 (black with adhesive)



Reference	PCB to LES	Adhesive	Color	Pins spacing	Note
LLH01CCD00	0.1	No	Clear	8.6	Reduced PCB footprint
LLH01CCD01		No	White		
LLH01CCD02		No	Black		
LLH01CCD001	0.2	Yes	Clear		
LLH01CCD011		Yes	White		
LLH01CCD021		Yes	Black		
LLH01BBD00	0.1	No	Clear	16.6	
LLH01BBD01		No	White		
LLH01BBD02		No	Black		
LLH01BBD001	0.2	Yes	Clear		
LLH01BBD011		Yes	White		
LLH01BBD021		Yes	Black		
LLH01AAD00	0.25	No	Clear	18.6	-
LLH01AAD01		No	White		
LLH01AAD02		No	Black		
LLH01AAD001	0.3	Yes	Clear		
LLH01AAD011		Yes	White		
LLH01AAD021		Yes	Black		
LLH01CCC00	0.4	No	Clear	8.6	Reduced PCB footprint
LLH01CCC01		No	White		
LLH01CCC02		No	Black		
LLH01CCC001	0.5	Yes	Clear		
LLH01CCC011		Yes	White		
LLH01CCC021		Yes	Black		
LLH01BBC00	0.4	No	Clear	16.6	-
LLH01BBC01		No	White		
LLH01BBC02		No	Black		
LLH01BBC001	0.5	Yes	Clear		
LLH01BBC011		Yes	White		
LLH01BBC021		Yes	Black		
LLH01AAC00	0.55	No	Clear	18.6	-
LLH01AAC01		No	White		
LLH01AAC02		No	Black		
LLH01AAC001	0.6	Yes	Clear		
LLH01AAC011		Yes	White		
LLH01AAC021		Yes	Black		
LLH01CCA00	0.65	No	Clear		

LLH01CCA01		No	White	8.6	Reduced PCB footprint
LLH01CCA02		No	Black		
LLH01CCA001	0.7	Yes	Clear		
LLH01CCA011		Yes	White		
LLH01CCA021		Yes	Black		
LLH01BBA00	0.65	No	Clear	16.6	Reduced PCB footprint
LLH01BBA01		No	White		
LLH01BBA02		No	Black		
LLH01BBA001	0.75	Yes	Clear		
LLH01BBA011		Yes	White		
LLH01BBA021		Yes	Black		

Reference	PCB to LES	Adhesive	Color	Pins spacing	Note
LLH01XRR00	0.8	No	Clear	-	Without pins
LLH01XRR02		No	Black		
LLH01XRR001	0.85	Yes	Clear		
LLH01XRR021		Yes	Black		
LLH01AAA00	0.8	No	Clear	18.6	-
LLH01AAA01			White		
LLH01AAA02			Black		
LLH01AAA001	0.85	Yes	Clear		
LLH01AAA011			White		
LLH01AAA021			Black		
LLH01P5200	1.0	No	Clear	-	Without pins
LLH01P52001	1.07	Yes			
LLH01AAB00	1.35	No	Clear	15.0	
LLH01AAB001	1.4	Yes			
LLH01DRA00	1.75	No	Clear	-	Without pins
LLH01DRA001	1.8	Yes			
LLH01ZP400	2.5	No	Clear	-	
LLH01ZP401	2.5	No	White	-	
LLH01LX300	3.45	No	Clear	-	
LLH01LX3001	3.57	Yes			
LLH01CCE00	1.2	No	Clear	8.6	
LLH01CCE01		No	White		
LLH01CCE02		No	Black		
LLH01CCE001	1.3	Yes	Clear	8.6	
LLH01CCE011		Yes	White		
LLH01CCE021		Yes	Black		

LLH03* / LLH04* - ø 16mm holder – LLC01/LLC02/LLC12/LLC22 series

All measurements are in millimeters.

Last digits of the reference: 0 (clear), 1 (white), 2 (black)

01 (clear with adhesive), 11 (white with adhesive), 21 (black with adhesive)



Reference	PCB to LES	Adhesive	Color	Pins spacing	Note
LLH03XRR01	0.8	No	White		Triple holder
LLH03XRR02			Black		
LLH04XRR01	0.8	No	White		Quadruple holder
LLH04XRR02			Black		

LLH02* - ø 32mm holder – LLC05/LLC15/LLC25 series

Adhesive tape thickness for LLH02HEL, LLH02XAL, LLH02MTB, LLH02RD: 0.125mm

Adhesive tape thickness for the others: 0.044mm.

Last digits of the reference: 0 (clear), 1 (white), 2 (black)

01 (clear with adhesive), 11 (white with adhesive), 21 (black with adhesive)



Reference	PCB to LES	Adhe sive	Color	Pins spacing	Note	
LLH02BAA00	0.25	No	Clear	13.6	For LLC25* range only, reduced PCB footprint, screws inside	
LLH02BAA02			Black			
LLH02BAA001	0.3	Yes	Clear			
LLH02BAA021			Black			
LLH02BBA00	0.25	No	Clear	21.5	Reduced PCB footprint, screws inside	
LLH02BBA01			White			
LLH02BBA02			Black			
LLH02BBA001	0.3	Yes	Clear			
LLH02BBA011			White			
LLH02BBA021			Black			
LLH02BCA00	0.25	No	Clear	24.0		Reduced PCB footprint, screws inside
LLH02BCA01			White			
LLH02BCA02			Black			
LLH02BCA001	0.3	Yes	Clear			
LLH02BCA011			White			
LLH02BCA021			Black			
LLH02XAL00	0.25	No	Clear	24.0	Without screw holes	
LLH02XAL02			Black			
LLH02XAL001	0.3	Yes	Clear			
LLH02XAL021			Black			
LLH02BAB00	0.5	No	Clear	13.6	For LLC25* range only, reduced PCB footprint, screws inside	
LLH02BAB02			Black			
LLH02BAB001	0.6	Yes	Clear			
LLH02BAB021			Black			
LLH02BBB00	0.5	No	Clear	21.5	Reduced PCB footprint, screws inside	
LLH02BBB01			White			
LLH02BBB02			Black			
LLH02BBB001	0.6	Yes	Clear			
LLH02BBB011			White			
LLH02BBB021			Black			
LLH02BCB00	0.5	No	Clear	24.0		Reduced PCB footprint, screws inside
LLH02BCB01			White			
LLH02BCB02			Black			
LLH02BCB001			Clear			

LLH02BCB011	0.6	Yes	White		
LLH02BCB021			Black		
Reference	PCB to LES	Adhesive	Color	Pins spacing	Note
LLH02HEL00	0.5	No	Clear	24.0	With pins, screws inside
LLH02HEL02			Black		
LLH02HEL001	0.6	Yes	Clear		
LLH02HEL021			Black		
LLH02RD100	0.5	No	Clear	24.0	Screws inside, rounded
LLH02RD102			Black		
LLH02RD1001	0.6	Yes	Clear		
LLH02RD1021			Black		
LLH02MTB00	0.5	No	Clear	24.0	Screws inside, rounded snoot
LLH02MTB02			Black		
LLH02MTB001	0.6	Yes	Clear		
LLH02MTB021			Black		
LLH02BBC00	0.65	No	Clear	21.5	Reduced PCB footprint, screws inside
LLH02BBC01			White		
LLH02BBC02			Black		
LLH02BBC001	0.75	Yes	Clear		
LLH02BBC011			White		
LLH02BBC021			Black		
LLH02BCC00	0.65	No	Clear	24.0	
LLH02BCC01			White		
LLH02BCC02			Black		
LLH02BCC001	0.70	Yes	Clear		
LLH02BCC011			White		
LLH02BCC021			Black		
LLH02AAC00	1.0	No	Clear	-	Without pins, screws inside
LLH02AAD00	1.1	No	Clear	-	Without pins, screws inside
LLH02AAD02			Black		
LLH02AAB00	1.74	No	Clear	-	Without pins, screws inside
LLH02AAB02			Black		
LLH02ZP400	2.3	No	Clear	-	Without pins, screws outside
LLH02AAA00	2.44	No	Clear	-	Without pins, screws outside
LLH02ZP700	2.5	No	Clear	-	Without pins
LLH02CB100	COB	No	Clear	-	Compatible with B+W
LLH02CB101			White		
LLH02CB102			Black		
LLH02CB400	COB	No	Clear	-	Compatible with TE & BJB
LLH02CB401			White		
LLH02CB402			Black		

LLH07* - ø 35mm holder – LLC07/LLC17 series

Last digits of the reference: 0 (clear), 1 (white), 2 (black)

Reference	PCB to LES	Adhesive	Color	Pins spacing	Note
LLH07SPA00	0	No	Clear	22.0	For LLC07N and LLC17N
LLH07SPA02			Black		

LLH59*/LLH09* - ø 45mm holder – LLC49/LLC59 series

Last digits of the reference: 0 (clear), 1 (white), 2 (black)

Reference	PCB to LES	Adhesive	Color	Pins spacing	Note
LLH59SPB00	0.5	No	Clear	35.0	For LLC 59 * range
LLH59SPB01			White		
LLH59SPB02			Black		
LLH59SPB001	0.6	Yes	Clear	35.0	
LLH59SPB021			Black		
LLH59AAA00	0.5	No	Clear	35.0	Reduced PCB footprint, For LLC 59 * range
LLH59AAA01			White		
LLH59AAA02			Black		
LLH59ABA00	0.5	No	Clear	-	No pins, reduced PCB footprint, for LLC 59 * range
LLH59ABA01			White		
LLH59ABA02			Black		
LLH09SPB00	0.52	No	Clear	35.0	For LLC 49 * range
LLH09SPB02			Black		
LLH09SPB001	0.62	Yes	Clear		
LLH09SPB021			Black		
LLH09SPA00	0.87	No	Clear	35.0	For LLC 49 * range
LLH09SPA02			Black		
LLH09SPA001	0.97	Yes	Clear		
LLH09SPA021			Black		
LLH09SPC00	0.52	No	Clear	35.0	For LLC 49 * range
LLH09SPC001	0.62	Yes			