



<b>Ordering number</b>	<b>FA11125</b>		
<b>Description</b>	<b>FA11125_Lisa2-O-Pin-DD</b>		
Family	Lisa2	FWHM	10+32 degrees
Type	Lens	Efficiency	-
LED	Double Dome (GM2BB)	cd/lm	-
Color	Black	Gerber File	Available
Diameter	9.9 mm		
Height	6.8 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, glue		
Status	Ready		



<b>Ordering number</b>	<b>FA11055</b>		
<b>Description</b>	<b>FA11055_Lisa2-RS-Pin-DD</b>		
Family	Lisa2	FWHM	18 degrees
Type	Lens	Efficiency	90 %
LED	Double Dome (GM2BB)	cd/lm	-
Color	Black	Gerber File	Available
Diameter	9.9 mm		
Height	6.8 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, glue		
Status	Ready		



<b>Ordering number</b>	<b>FA10995</b>		
<b>Description</b>	<b>FA10995_Lisa2-M-Pin-DD</b>		
Family	Lisa2	FWHM	28 degrees
Type	Lens	Efficiency	88 %
LED	Double Dome (GM2BB)	cd/lm	-
Color	Black	Gerber File	Available
Diameter	9.9 mm		
Height	6.8 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, glue		
Status	Ready		



<b>Ordering number</b>	<b>FA10996</b>		
<b>Description</b>	<b>FA10996_Lisa2-W-Pin-DD</b>		
Family	Lisa2	FWHM	44 degrees
Type	Lens	Efficiency	88 %
LED	Double Dome (GM2BB)	cd/lm	-
Color	Black	Gerber File	Available
Diameter	9.9 mm		
Height	6.8 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, glue		
Status	Ready		



# PRODUCT DATASHEET

## Lisa2-Pin-XP series

SHARP.

<b>Ordering number</b>	<b>C12469</b>		
<b>Description</b>	<b>C12469_LISA2-R-PIN</b>		
Family	Lisa2	FWHM	(simulated) 80
Type	Reflector	Efficiency	-
LED	Double Dome (GM2BB)	cd/lm	-
Color	White	Gerber File	Available
Diameter	9.9 mm		
Height	6.5 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	Pin		
Status	Ready		
<b>Ordering number</b>	<b>FP11851</b>		
<b>Description</b>	<b>FP11851_Lisa2-O-90-Pin-DD</b>		
Family	Lisa2	FWHM	(simulated) 48+20
Type	Lens	Efficiency	-
LED	Double Dome (GM2BB)	cd/lm	-
Color	Black	Gerber File	Available
Diameter	9.9 mm		
Height	6.8 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, glue		
Status	Ready		

**NOTE: The typical divergence will be changed by different color, chip size and chip position tolerance. The typical total divergence is the full angle measured where the luminous intensity is half of the peak value.**



## PRODUCT DATASHEET Lisa2-Pin-XP series

SHARP

### GENERAL INFORMATION

- Product series especially designed & optimized for Double Dome (GM2BB) series of LEDs.
- Special care taken to make light distribution as uniform as possible.
- Lens material optical grade PMMA with high UV and temperature resistance (105 degrees of Celcius / 220 degrees of Fahrenheit). Allows use of high current and temperature conditions.

Please find more information about used material from below:

[http://ledil.fi/sites/default/files/Documents/Technical/Material/PMMA%20N%20UL94\\_Yellow%20Card.pdf](http://ledil.fi/sites/default/files/Documents/Technical/Material/PMMA%20N%20UL94_Yellow%20Card.pdf)

<http://ledil.fi/sites/default/files/Documents/Technical/Material/PMMA%20N%20PLEXIGLAS-Datasheet.pdf>

- Reflector is made of aluminium coated PC (120 degrees of Celcius / 248 degrees of Fahrenheit) with protective lacquer (110 degrees of Celcius / 230 degrees of Fahrenheit).
- Optic holder molded by high quality PC material (120 dergees of Celcius / 248 degrees of Fahrenheit).

- Fastening to PCB with appropriate adhesive. By clicking link below you can find Ledil recommended glue options.

[http://www.ledil.com/datasheets/DataSheet\\_GLUES.pdf](http://www.ledil.com/datasheets/DataSheet_GLUES.pdf)

**NOTE 1: We advise customer to ensure the suitability and sufficiency of the bond in the end product. For example, mechanical stress, vibration and holes on the surface of the circuit boar weaken the strength of the glue.**

**NOTE 2: All surfaces where glue is applied must be clean, dry and free from grease and dirt. If cleaning of PCB surfaces is needed, please follow strictly the cleaning instructions of your LED manufacturer -this is important as cleaning shall under no circumstances damage LEDs or other electronics components on the PCB.**

**Further note that optical components shall not be cleaned with any chemicals - only micro fiber cloth may be used to remove fingerprints or other traces from handling.**

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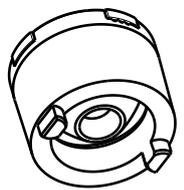
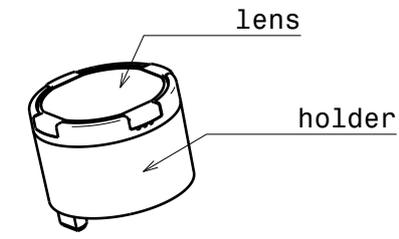
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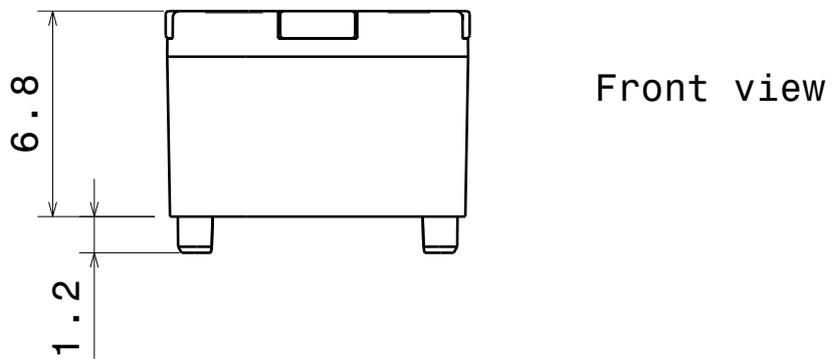
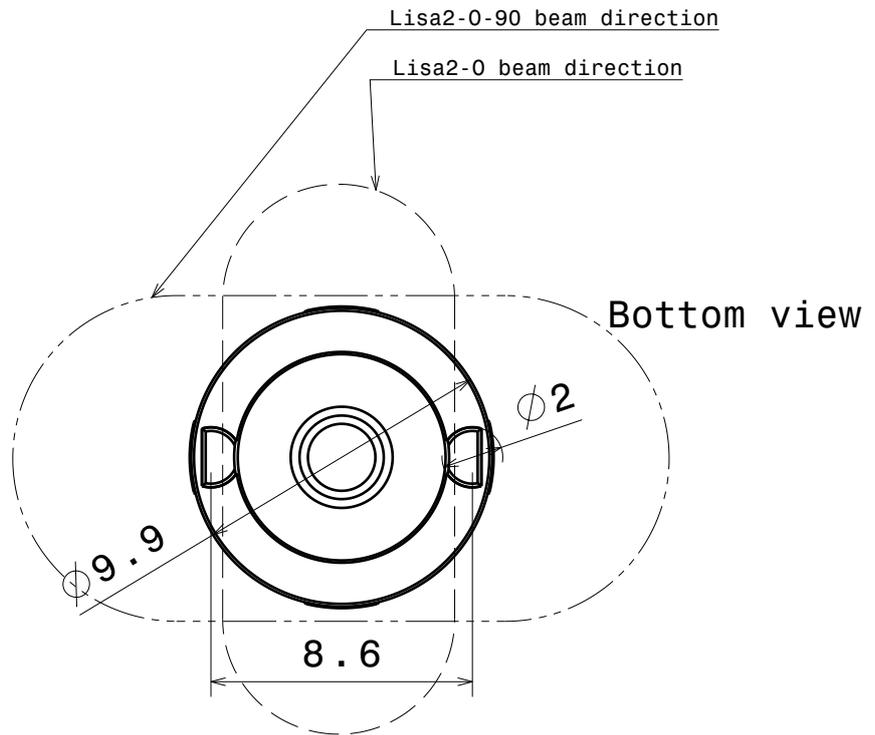
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Isometric view  
Scale: 2:1



Materials:  
Lens PMMA  
Holder PC

Part no.s:  
FA10995\_Lisa2-M-Pin-XP  
FA10996\_Lisa2-W-Pin-XP  
FA11055\_Lisa2-RS-Pin-XP  
FA11125\_Lisa2-0-Pin-XP  
FA11851\_Lisa2-0-90-Pin-XP

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DRAWING TITLE

Datasheet Lisa2-Pin-XP Series Assy

DRAWN BY  
p

DATE  
02.11.2010

CHECKED BY  
s n

DATE  
02.11.2010

DESIGNED BY  
hh

DATE  
19.10.2009

SIZE A4	DRAWING NUMBER	REV 1
SCALE 4:1	WEIGHT (g)	SHEET 1/1

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