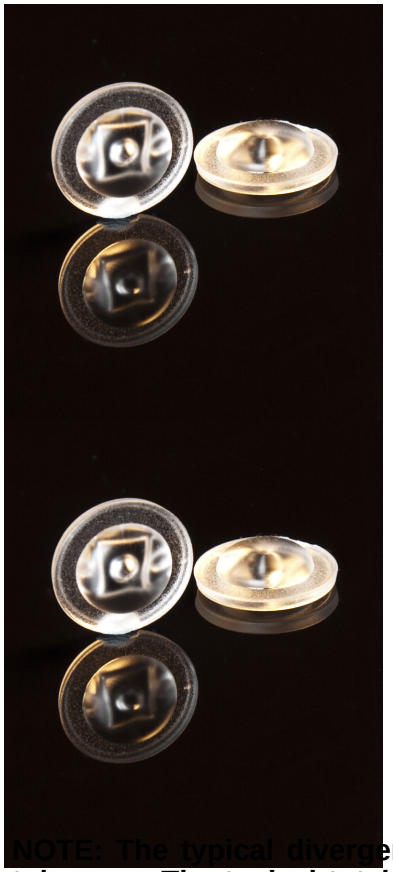
PRODUCT DATASHEET
Julia-A series



Ordering number	**F11947**
Description	**F11947_Julia-A-XP**

Family	Julia	FWHM	108 +164 degrees
Type	Lens	Efficiency	90 %
LED	XP-E	cd/lm	-
Color	Transparent	Gerber File	Available
Diameter	18.8 mm		
Height	4.66 mm		
Style	Round	http://www.ledil.fi/Julia_Uniform_Wide_Angle_Illumination_-_Ide	
Optic Material	PMMA		
Holder Material	-		
Fastening	Pin, glue		
Status	Ready		

Ordering number	**FA11948**
Description	**FA11948_Julia-A-XP-tape**

Family	Julia	FWHM	108 +164 degrees
Type	Lens	Efficiency	90 %
LED	XP-E	cd/lm	-
Color	Transparent	Gerber File	Available
Diameter	18.8 mm		
Height	4.81 mm		
Style	Round	http://www.ledil.fi/Julia_Uniform_Wide_Angle_Illumination_-_Ide	
Optic Material	PMMA		
Holder Material	-		
Fastening	Pin, tape		
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.

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GENERAL INFORMATION

- Product series especially designed & optimized for XP-E 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%208N%20UL94_Yellow%20Card.pdf
http://ledil.fi/sites/default/files/Documents/Technical/Material/PMMA%208N%20PLEXIGLAS-Datasheet.pdf

- Fastening to heat sink with a PU foam adhesive tape of automotive grade. Please find fastening details by clicking link: http://www.ledil.com/datasheets/DataSheet_TAPE.pdf

- 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

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 tape.

NOTE 2: Assembly to the surface must be made straight, so the tape bonds constant and balanced with fastening surface. Slanted assembly might cause unbalanced bond to the surface. All surfaces where tape 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.
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.

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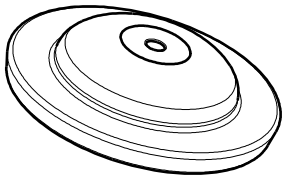
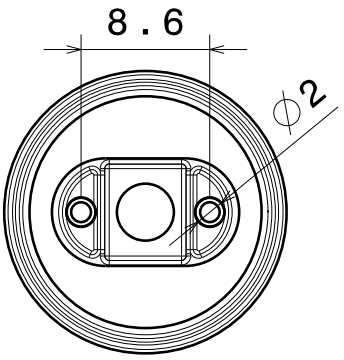
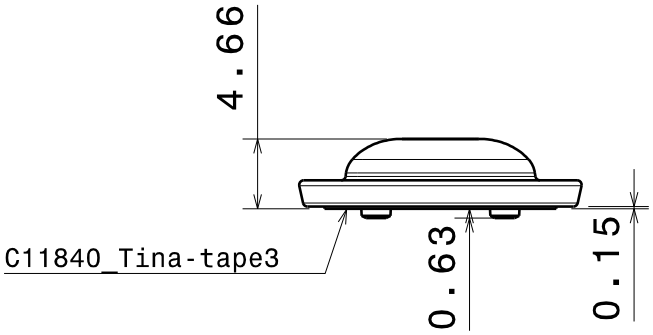


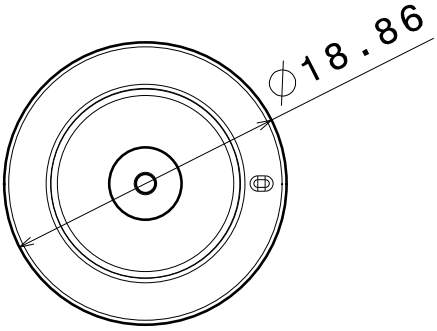
Isometric view



Bottom view



Front view



Top view

Material: PMMA

Part no.s:
Lens: F11947_Julia-A
Assembly: FA11948_Julia-A-tape
(F11947_Julia-A + C11840_Tina-tape3)

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DRAWN BY: mav	DATE: 07.01.2011	DRAWING TITLE: Datasheet Julia-A Lens			
CHECKED BY: tk	DATE: 07.01.2011	SIZE: A4	DRAWING NUMBER: F11947		REV: 1
DESIGNED BY: ol	DATE: 20.12.2010	SCALE: 2:1	WEIGHT(g):		SHEET: 1/1