

Ordering number FCN12103_IRIS-SCREW

Family	Iris	FWHM	9 degrees
Type	Lens	Efficiency	91 %
LED	XM-L	cd/lm	-
Color	Black	Gerber File	Available
Diameter	38 mm		
Height	27.3 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Screw, glue		
Status	Ready		

Ordering number FCA12104
Description C4F12104_Iris-XM-tape

Family	Iris	FWHM	9 degrees
Type	Lens	Efficiency	91 %
LED	XM-L	cd/lm	19.200
Color	Black	Gerber File	Available
Diameter	38 mm		
Height	27.7 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Screw, 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.



PRODUCT DATASHEET

Iris series

last update 18/3/2012



GENERAL INFORMATION

- Product series especially designed & optimized for XM-L 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%20PLEXIGLAS-Datasheet.pdf>

- Optic holder molded by high quality PC material (120 degees of Celcius / 248 degrees of Fahrenheit).

- 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 board 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.

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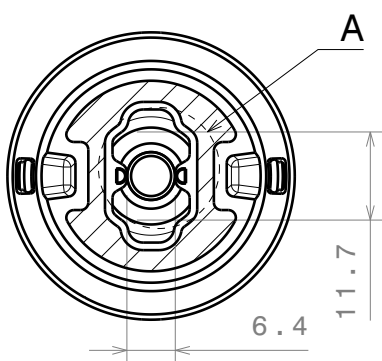
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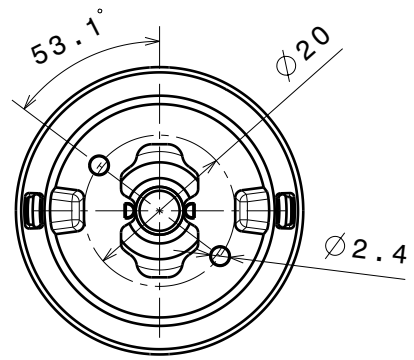
4



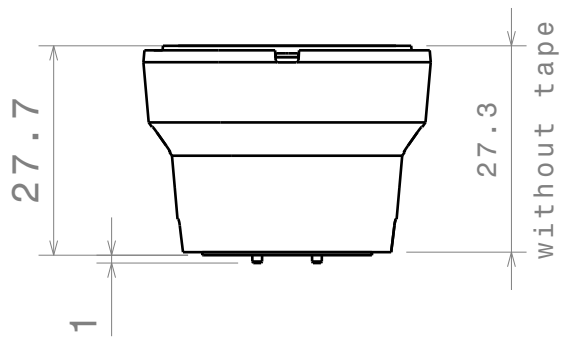
4



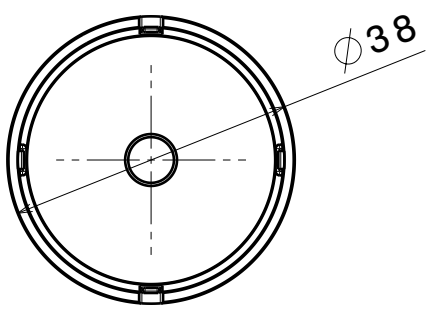
3



3



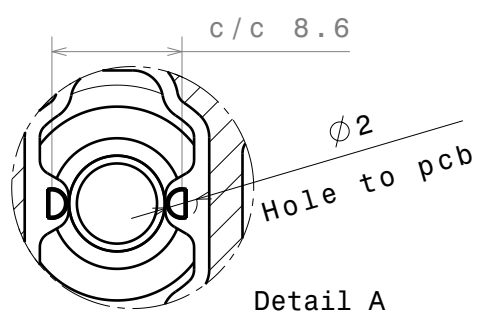
without tape



2

Materials:
 Lens PMMA
 Holder PC
 Tape PU Foam

2



Detail A
 Scale: 2:1

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 or communicated without
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DRAWING TITLE

Datasheet Iris-XM-tape assy

DRAWN BY
 p DATE
 03.02.2011

CHECKED BY
 h DATE
 02.02.2011

DESIGNED BY
 ol DATE
 19.03.2010

SIZE A4 DRAWING NUMBER - REV 1

SCALE 1:1 WEIGHT (g) SHEET 1/1

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