

## PRODUCT DATASHEET Lisa2 series

last update 25/10/2012





#### Ordering number FP11085\_LISA2-RS-CLIP

Family Lisa2 Type Assembly XP-E LED Color Black Diameter 9.9 mm Height 6.8 mm Style Round **PMMA** Optic Material PC Holder Material Fastening Clips, glue Ready Status

#### Ordering number FP11121\_LISA2-O-CLIP

Family Lisa2 Type Assembly **LED** XP-E Color Black Diameter 9.9 mm Height 6.8 mm Style Round **PMMA** Optic Material Holder Material PC Fastening Clips, glue Status Ready

#### Ordering number FP11075\_LISA2-M-CLIP

Family Lisa2 Type Assembly **LED** XP-E Color Black Diameter 9.9 mm Height 6.8 mm Round Style **PMMA** Optic Material Holder Material PC Fastening Clips, glue Status Ready

#### Ordering number FP11076\_LISA2-W-CLIP

Family Lisa2 Assembly Type LED XP-E Color Black Diameter 9.9 mm Height 6.8 mm Style Round Optic Material **PMMA** Holder Material PC Fastening Clips, glue Status Ready

**FWHM** 16 degrees Efficiency 90 % cd/lm Gerber File Available

**FWHM** 18+48 degrees

Efficiency 83 % cd/lm Gerber File Available

**FWHM** 24 degrees 92 % Efficiency cd/lm

Available Gerber File

Efficiency 90 % cd/lm Gerber File Available

37 degrees

**FWHM** 



## PRODUCT DATASHEET Lisa2 series

last update 25/10/2012





#### Ordering number FP11077\_LISA2-WW-CLIP

Family	Lisa2
Type	Assembly
LED	XP-E
Color	Black
Diameter	9.9 mm
Height	7 mm
Style	Round
Optic Material	PMMA
Holder Material	PC
Fastening	Clips, glue
Status	Ready

### Ordering number FP11856\_LISA2-O-90-CLIP

Family	Lisa2
Туре	Assembly
LED	XP-E
Color	Black
Diameter	9.9 mm
Height	6.8 mm
Style	Round
Optic Material	PMMA
Holder Material	PC
Fastening	Clips, glue
Status	Ready

#### Ordering number FP11431\_LISA2-WWW-CLIP

Family	Lisa2
Туре	Assembly
LED	XP-E
Color	Black
Diameter	9.9 mm
Height	7 mm
Style	Round
Optic Material	PMMA
Holder Material	PC
Fastening	Clips, glue
Status	Ready

FWHM 42 degrees
Efficiency 91 %
cd/lm 1.300
Gerber File Available

FWHM 48+18 degrees
Efficiency 83 %
cd/lm Gerber File Available

FWHM 84 degrees
Efficiency 77 %
cd/lm 0.500
Gerber File Available

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 series



last update 25/10/2012

#### **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

- 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

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.

# Relative intensity of FP11431\_LISA2-WWW-CLIP & FP11429\_LISA2-WWW-PIN



