

PRODUCT DATASHEET Tina3 series

CITIZEN









Ordering number Description	FA11824 FA11824_Tina3-W		
Family	Tina3	FWHM	53 degrees
Туре	Lens	Efficiency	-
LED	CL-L400	cd/lm	-
Color	White	Gerber File	Available
Diameter	16.1 mm		
Height	7.95 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	Ready		
Ordering number Description	FA11870 FA11870-Tina3-OO		
Family	Tina3	FWHM	57+65 degrees
Туре	Lens	Efficiency	-
LED	CL-L400	cd/lm	-
Color	White	Gerber File	Available
Diameter	16.1 mm		
Height	6.9 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	Ready		
Ordering number Description	FA11825 FA11825_Tina3-WW		
		FWHM	65 degrees
Description	FA11825_Tina3-WW	FWHM Efficiency	65 degrees -
Description Family	FA11825_Tina3-WW Tina3		-
Description Family Type	FA11825_Tina3-WW Tina3 Lens	Efficiency	-
Description Family Type LED Color Diameter	FA11825_Tina3-WW Tina3 Lens CL-L400	Efficiency cd/lm	-
Description Family Type LED Color Diameter Height	FA11825_Tina3-WW Tina3 Lens CL-L400 White 16.1 mm 7.1 mm	Efficiency cd/lm	-
Description Family Type LED Color Diameter Height Style	FA11825_Tina3-WW Tina3 Lens CL-L400 White 16.1 mm 7.1 mm Round	Efficiency cd/lm	-
Description Family Type LED Color Diameter Height Style Optic Material	FA11825_Tina3-WW Tina3 Lens CL-L400 White 16.1 mm 7.1 mm Round PMMA	Efficiency cd/lm	-
Description Family Type LED Color Diameter Height Style Optic Material Holder Material	FA11825_Tina3-WW Tina3 Lens CL-L400 White 16.1 mm 7.1 mm Round PMMA PC	Efficiency cd/lm	-
Description Family Type LED Color Diameter Height Style Optic Material Holder Material Fastening	FA11825_Tina3-WW Tina3 Lens CL-L400 White 16.1 mm 7.1 mm Round PMMA PC Pin, tape	Efficiency cd/lm	-
Description Family Type LED Color Diameter Height Style Optic Material Holder Material	FA11825_Tina3-WW Tina3 Lens CL-L400 White 16.1 mm 7.1 mm Round PMMA PC	Efficiency cd/lm	-
Description Family Type LED Color Diameter Height Style Optic Material Holder Material Fastening	FA11825_Tina3-WW Tina3 Lens CL-L400 White 16.1 mm 7.1 mm Round PMMA PC Pin, tape Ready	Efficiency cd/lm	-
Description Family Type LED Color Diameter Height Style Optic Material Holder Material Fastening Status Ordering number	FA11825_Tina3-WW Tina3 Lens CL-L400 White 16.1 mm 7.1 mm Round PMMA PC Pin, tape Ready FA11826	Efficiency cd/lm	-
Description Family Type LED Color Diameter Height Style Optic Material Holder Material Fastening Status Ordering number Description	FA11825_Tina3-WW Tina3 Lens CL-L400 White 16.1 mm 7.1 mm Round PMMA PC Pin, tape Ready FA11826 FA11826_Tina3-WWW	Efficiency cd/lm Gerber File	- Available
Description Family Type LED Color Diameter Height Style Optic Material Holder Material Fastening Status Ordering number Description Family	FA11825_Tina3-WW Tina3 Lens CL-L400 White 16.1 mm 7.1 mm Round PMMA PC Pin, tape Ready FA11826 FA11826_Tina3-WWW Tina3	Efficiency cd/lm Gerber File FWHM	- Available
Description Family Type LED Color Diameter Height Style Optic Material Holder Material Fastening Status Ordering number Description Family Type	FA11825_Tina3-WW Tina3 Lens CL-L400 White 16.1 mm 7.1 mm Round PMMA PC Pin, tape Ready FA11826 FA11826_Tina3-WWW Tina3 Lens	Efficiency cd/Im Gerber File FWHM Efficiency	- Available
Description Family Type LED Color Diameter Height Style Optic Material Holder Material Fastening Status Ordering number Description Family Type LED Color Diameter	FA11825_Tina3-WW Tina3 Lens CL-L400 White 16.1 mm 7.1 mm Round PMMA PC Pin, tape Ready FA11826 FA11826_Tina3-WWW Tina3 Lens CL-L400 White 16.1 mm	Efficiency cd/Im Gerber File FWHM Efficiency cd/Im	Available 81 degrees
Description Family Type LED Color Diameter Height Style Optic Material Holder Material Fastening Status Ordering number Description Family Type LED Color Diameter Height	FA11825_Tina3-WW Tina3 Lens CL-L400 White 16.1 mm 7.1 mm Round PMMA PC Pin, tape Ready FA11826 FA11826_Tina3-WWW Tina3 Lens CL-L400 White 16.1 mm 6.9 mm	Efficiency cd/Im Gerber File FWHM Efficiency cd/Im	Available 81 degrees
Description Family Type LED Color Diameter Height Style Optic Material Holder Material Fastening Status Ordering number Description Family Type LED Color Diameter Height Style	FA11825_Tina3-WW Tina3 Lens CL-L400 White 16.1 mm 7.1 mm Round PMMA PC Pin, tape Ready FA11826 FA11826 WWW Tina3 Lens CL-L400 White 16.1 mm 6.9 mm Round	Efficiency cd/Im Gerber File FWHM Efficiency cd/Im	Available 81 degrees
Description Family Type LED Color Diameter Height Style Optic Material Holder Material Fastening Status Ordering number Description Family Type LED Color Diameter Height Style Optic Material	FA11825_Tina3-WW Tina3 Lens CL-L400 White 16.1 mm 7.1 mm Round PMMA PC Pin, tape Ready FA11826_Tina3-WWW Tina3 Lens CL-L400 White 16.1 mm 6.9 mm Round PMMA	Efficiency cd/Im Gerber File FWHM Efficiency cd/Im	Available 81 degrees
Description Family Type LED Color Diameter Height Style Optic Material Holder Material Fastening Status Ordering number Description Family Type LED Color Diameter Height Style Optic Material Holder Material	FA11825_Tina3-WW Tina3 Lens CL-L400 White 16.1 mm 7.1 mm Round PMMA PC Pin, tape Ready FA11826 FA11826_Tina3-WWW Tina3 Lens CL-L400 White 16.1 mm 6.9 mm Round PMMA PC	Efficiency cd/Im Gerber File FWHM Efficiency cd/Im	Available 81 degrees
Description Family Type LED Color Diameter Height Style Optic Material Holder Material Fastening Status Ordering number Description Family Type LED Color Diameter Height Style Optic Material	FA11825_Tina3-WW Tina3 Lens CL-L400 White 16.1 mm 7.1 mm Round PMMA PC Pin, tape Ready FA11826_Tina3-WWW Tina3 Lens CL-L400 White 16.1 mm 6.9 mm Round PMMA	Efficiency cd/Im Gerber File FWHM Efficiency cd/Im	Available 81 degrees

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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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PRODUCT DATASHEET Tina3 series

GENERAL INFORMATION

- Product series especially designed & optimized for CL-L400 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 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

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.

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3	6. - - - - - - - - - - - - -	8.6 c/c Lens Holder Tape			3
2	MATERIALS Lens: PMMA Holder: PC Tape: PU Foam Part no.s: FA11824_Tina3-W-XP FA11825_Tina3-WW-XF FA11826_Tina3-WWW-X FA11905_Tina3-S-XP FA11870_Tina3-00-XF	(P			2
4	This drawing is our It can't be reproduc or communicated with our written agreemer DRAWN BY p CHECKED BY h h DESIGNED BY pV	DATE DATE DATE DATE DATE DATE DATE DATE		e i n Nies Assy XP REV 1 SHEET 1/1 A	d 1