

HB-2X2-RW

~50° wide beam

SPECIFICATION:

Dimensions	50.0 x 50.0 mm
Height	8.5 mm
Fastening	glue, pin, screw
ROHS compliant	yes 🛈



MATERIALS:

Component HB-2X2-RW **Type** Multi-lens

Material	Colour	Finish
PMMA	clear	

ORDERING INFORMATION:

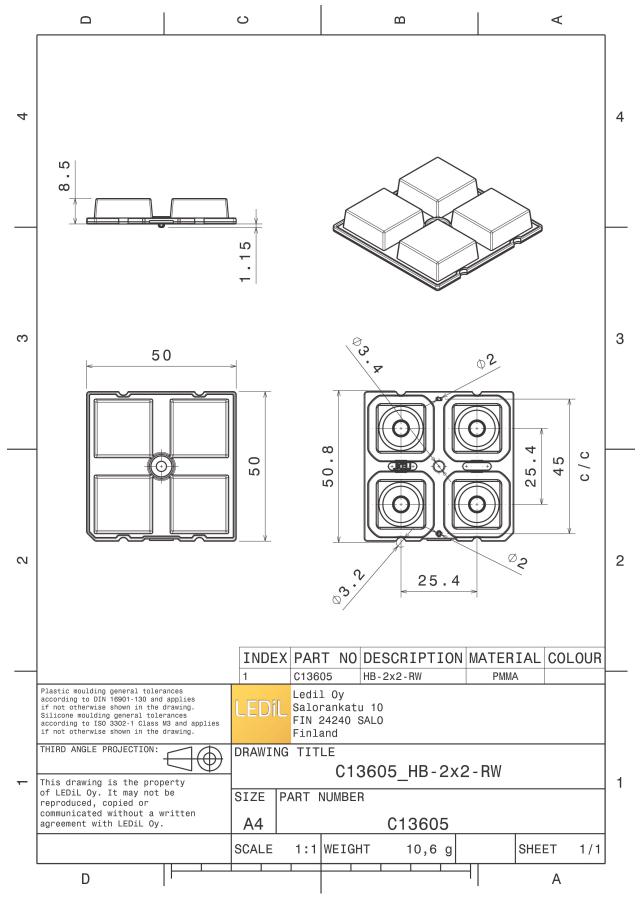
Component C13605_HB-2X2-RW » Box size: 480 x 280 x 300 mm

Qty in box	MOQ	MPQ	Box weight (kg)
800	160	160	9.3

PRODUCT DATASHEET C13605_HB-2X2-RW

PRODUCT DATASHEET C13605_HB-2X2-RW





See also our general installation guide: www.ledil.com/installation_guide



CREE - LED		C13605_BB-2X2-8W_(XB-0)	90° 90°
LED	XB-D		
FWHM / FWTM	46.0° / 68.0°		75°
	88 %		
	1.6 cd/lm		
LEDs/each optic	1		
	White		47*
Required componen			
			1200
			157 0 15°
			90* 99*
LED	XP-E		
FWHM / FWTM	51.0° / 72.0°		\land
Efficiency	89 %		400
Peak intensity	1.4 cd/lm		$\Gamma \times // \wedge \wedge \times \cap$
LEDs/each optic	1		
Light colour	White		eze eze
Required componen	ts:		
			1200
			300 300
			159 0 ⁰ 25°
		oroothe rate willing of	
			90*
LED	XP-G		90°
LED FWHM / FWTM	XP-G 50.0° / 76.0°		3. 3. 9. 9.
LED FWHM / FWTM Efficiency	XP-G 50.0° / 76.0° 89 %		90* 91* 32* 72* 60* 60*
LED FWHM / FWTM Efficiency Peak intensity	XP-G 50.0° / 76.0° 89 % 1.3 cd/lm		50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-G 50.0° / 76.0° 89 % 1.3 cd/lm 1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G 50.0° / 76.0° 89 % 1.3 cd/lm 1 White		90* 90 72 60* 60* 60* 60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-G 50.0° / 76.0° 89 % 1.3 cd/lm 1 White		90° 90° 90° 90° 60° 60° 5° 60° 6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G 50.0° / 76.0° 89 % 1.3 cd/lm 1 White		90° 90° 90° 90° 90° 90° 90° 90° 60° 90° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G 50.0° / 76.0° 89 % 1.3 cd/lm 1 White		92* 92 94 95 95 96 96 96 96 97 97 97 97 97 97 97 97 97 97
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G 50.0° / 76.0° 89 % 1.3 cd/lm 1 White		50° 50° 60° 60° 60° 60° 60° 60° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G 50.0° / 76.0° 89 % 1.3 cd/lm 1 White ts:		90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	XP-G 50.0° / 76.0° 89 % 1.3 cd/lm 1 White ts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	XP-G 50.0° / 76.0° 89 % 1.3 cd/lm 1 White ts: XT-E		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	XP-G 50.0° / 76.0° 89 % 1.3 cd/lm 1 White ts: XT-E 44.0° / 68.0°		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	XP-G 50.0° / 76.0° 89 % 1.3 cd/lm 1 White ts: XT-E 44.0° / 68.0° 91 %		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Required componen LED FWHM / FWTM Efficiency Peak intensity	XP-G 50.0° / 76.0° 89 % 1.3 cd/lm 1 White ts: XT-E 44.0° / 68.0° 91 % 1.6 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Required componen LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-G 50.0° / 76.0° 89 % 1.3 cd/lm 1 White ts: XT-E 44.0° / 68.0° 91 % 1.6 cd/lm 1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G 50.0° / 76.0° 89 % 1.3 cd/lm 1 White ts: XT-E 44.0° / 68.0° 91 % 1.6 cd/lm 1 White		91 61 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Required componen LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-G 50.0° / 76.0° 89 % 1.3 cd/lm 1 White ts: XT-E 44.0° / 68.0° 91 % 1.6 cd/lm 1 White		91 61 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G 50.0° / 76.0° 89 % 1.3 cd/lm 1 White ts: XT-E 44.0° / 68.0° 91 % 1.6 cd/lm 1 White		91 61 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Required componen ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G 50.0° / 76.0° 89 % 1.3 cd/lm 1 White ts: XT-E 44.0° / 68.0° 91 % 1.6 cd/lm 1 White		91 61 00



		3605_HB-2X2-RV_(NCS++17A)	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NCSxx19A 49.0° / 71.0° 90 % 1.5 cd/lm 1 White nts:		25- 25- 25- 25- 25- 25- 25- 25- 25- 25-
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSxE21A 37.0° / 68.0° 84 % 1.6 cd/lm 1 White		25 25 25 25 25 25 25 25 25 25
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSxx19A 52.0° / 76.0° 88 % 1.3 cd/lm 1 White		5 ¹ 5 ¹ 5 ¹ 5 ¹ 5 ¹ 5 ¹ 5 ¹ 5 ¹
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSxx19B/NVSxx19C 51.0° / 76.0° 90 % 1.3 cd/lm 1 White		



OCDAN		
OSRAM		50*
LED	PL-BRICK HP 3800 2x8 SSG	
FWHM / FWTM	47.0° / 75.0°	
Efficiency	95 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required componer		
		200 - 200 -
OSRAM		
LED	PrevaLED Brick HP 2x8	
FWHM / FWTM	49.0° / 73.0°	
Efficiency	89 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	9 ²⁺ 800
Required componer	nts:	
		1200
		325 op 325
OSRAM Opto Semiconductors		50*
LED		
· ·-	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	49.0° / 73.0°	
FWHM / FWTM	49.0° / 73.0°	
FWHM / FWTM Efficiency	49.0° / 73.0° 89 %	
FWHM / FWTM Efficiency Peak intensity	49.0° / 73.0° 89 % 1.3 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	49.0° / 73.0° 89 % 1.3 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	49.0° / 73.0° 89 % 1.3 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	49.0° / 73.0° 89 % 1.3 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	49.0° / 73.0° 89 % 1.3 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	49.0° / 73.0° 89 % 1.3 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	49.0° / 73.0° 89 % 1.3 cd/lm 1 White hts:	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED	49.0° / 73.0° 89 % 1.3 cd/lm 1 White hts: OSLON Square PC	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM	49.0° / 73.0° 89 % 1.3 cd/lm 1 White nts: OSLON Square PC 50.0° / 73.0°	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency	49.0° / 73.0° 89 % 1.3 cd/lm 1 White hts: OSLON Square PC 50.0° / 73.0° 90 %	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	49.0° / 73.0° 89 % 1.3 cd/lm 1 White hts: OSLON Square PC 50.0° / 73.0° 90 % 1.4 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	49.0° / 73.0° 89 % 1.3 cd/lm 1 White ots: OSLON Square PC 50.0° / 73.0° 90 % 1.4 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	49.0° / 73.0° 89 % 1.3 cd/lm 1 White hts: OSLON Square PC 50.0° / 73.0° 90 % 1.4 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	49.0° / 73.0° 89 % 1.3 cd/lm 1 White hts: OSLON Square PC 50.0° / 73.0° 90 % 1.4 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	49.0° / 73.0° 89 % 1.3 cd/lm 1 White hts: OSLON Square PC 50.0° / 73.0° 90 % 1.4 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	49.0° / 73.0° 89 % 1.3 cd/lm 1 White hts: OSLON Square PC 50.0° / 73.0° 90 % 1.4 cd/lm 1 White	



		
OSRAM Opto Semiconductors		C1145_B-27-47_(055_%)
LED	OSLON SSL 80	
FWHM / FWTM	46.0° / 68.0°	
Efficiency	90 %	
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	
Light colour	White	gr e
Required compone		
		300
		33% 0% 13%
SAMSI	JNG	90 ⁴
LED	LH351Z	
FWHM / FWTM	48.0° / 72.0°	
Efficiency	90 %	
Peak intensity	1.4 cd/lm	64× / /
LEDs/each optic	1	
Light colour	White	gr (1990-1990-1990-1990-1990-1990-1990-1990
Required compone		
		1200
		179 00 179
SEOUL SEMICONDUCTOR		50 ⁴
SEOUL SEOUL SEMICONDUCTOR	Z5M1/Z5M2	
SEOUL SEMICONDUCTOR	Z5M1/Z5M2 49.0° / 73.0°	
SEOUL SEMICONDUCTOR		
seoul semiconductor LED FWHM / FWTM	49.0° / 73.0°	
seoul semiconductor LED FWHM / FWTM Efficiency	49.0° / 73.0° 90 %	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	49.0° / 73.0° 90 % 1.4 cd/lm	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	49.0° / 73.0° 90 % 1.4 cd/lm 1 White	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	49.0° / 73.0° 90 % 1.4 cd/lm 1 White	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	49.0° / 73.0° 90 % 1.4 cd/lm 1 White	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	49.0° / 73.0° 90 % 1.4 cd/lm 1 White	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	49.0° / 73.0° 90 % 1.4 cd/lm 1 White	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	49.0° / 73.0° 90 % 1.4 cd/lm 1 White	
stout semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	49.0° / 73.0° 90 % 1.4 cd/lm 1 White	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SEOUL SEMICONDUCTOR	49.0° / 73.0° 90 % 1.4 cd/lm 1 White nts:	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seoul semiconductor LED	49.0° / 73.0° 90 % 1.4 cd/lm 1 White nts: Z8Y15	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seoul semiconductor LED FWHM / FWTM	49.0° / 73.0° 90 % 1.4 cd/lm 1 White nts: Z8Y15 46.0° / 71.0°	
seous semiconbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seous semiconbuctor LED FWHM / FWTM Efficiency	49.0° / 73.0° 90 % 1.4 cd/lm 1 White nts: Z8Y15 46.0° / 71.0° 88 %	
seous semiconbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seous semiconbuctor LED FWHM / FWTM Efficiency Peak intensity	49.0° / 73.0° 90 % 1.4 cd/lm 1 White nts: Z8Y15 46.0° / 71.0° 88 % 1.4 cd/lm	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	49.0° / 73.0° 90 % 1.4 cd/lm 1 White hts: Z8Y15 46.0° / 71.0° 88 % 1.4 cd/lm 1 White	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	49.0° / 73.0° 90 % 1.4 cd/lm 1 White hts: Z8Y15 46.0° / 71.0° 88 % 1.4 cd/lm 1 White	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	49.0° / 73.0° 90 % 1.4 cd/lm 1 White hts: Z8Y15 46.0° / 71.0° 88 % 1.4 cd/lm 1 White	
seou semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seou semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	49.0° / 73.0° 90 % 1.4 cd/lm 1 White hts: Z8Y15 46.0° / 71.0° 88 % 1.4 cd/lm 1 White	



seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Z8Y19 47.0° / 74.0° 87 % 1.3 cd/lm 1 White nts:	
SEOUL		
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Z8Y22 45.0° / 78.0° 93 % 1.2 cd/lm 1 White nts:	
TOSHIBA		6 ¹
Leading Innovation >>> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x121mm 2000lm xxx EXC OTD 45.0° / 74.0° 94 % 1.4 cd/lm 1 White	



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x133mm 2000lm xxx EXC OTD 45.0° / 74.0° 94 % 1.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x223mm 4000lm xxx EXC OTD 45.0° / 74.0° 94 % 1.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x245mm 4000lm xxx EXC OTD 45.0° / 74.0° 94 % 1.4 cd/lm 1 White	



OPTICAL RESULTS (SIMULATED):

OSRAM Opto Semiconductors		90*
LED	OSLON Square CSSRM2/CSSRM3	75*
FWHM / FWTM	52.0° / 76.0°	
Efficiency	88 %	60° 400 60°
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	₫ [*] ₫*
Required components:		
Desta stire also		
Protective plat	ie, glass	
		30* 155 0° 15°
SEOU		
SEOUL SEOUL SEMICONDUCTOR		90* 90*
	Z8Y22T	
SEOUL SEMICONDUCTOR	Z8Y22T 54.0° / 71.0°	90* 90* 75* 72*
seoul semiconductor		
seoul semiconductor LED FWHM / FWTM	54.0° / 71.0°	737
seoul semiconductor LED FWHM / FWTM Efficiency	54.0° / 71.0° 94 %	737
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	54.0° / 71.0° 94 % 1.3 cd/lm	737
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	54.0° / 71.0° 94 % 1.3 cd/lm 1 White	737
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	54.0° / 71.0° 94 % 1.3 cd/lm 1 White	737
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	54.0° / 71.0° 94 % 1.3 cd/lm 1 White	77
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	54.0° / 71.0° 94 % 1.3 cd/lm 1 White	737



GENERAL INFORMATION:

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

MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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LEDiL Oy

Joensuunkatu 13 FI-24240 SALO Finland

LEDiL Inc. 228 West Page Street Suite D Sycamore IL 60178 USA

Ledil Optics Technology (Shenzhen) Co., Ltd. # 405 , Block B Casic Motor Building Shenzhen 518057 P.R.CHINA

Local sales and technical support www.ledil.com/ where_to_buy

Shipping locations Salo, Finland Hong Kong, China

Distribution Partners www.ledil.com/ where_to_buy