# mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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# Contact us

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# **BROOKE-G2-M**

 ${\sim}30^\circ$  medium beam compatible with LEDiL HEKLA.

#### **TECHNICAL SPECIFICATIONS:**

Dimensions	Ø 45.0 mm
Height	18.9 mm
Fastening	socket
Colour	metal
Box size	480 x 280 x 300 mm
Box weight	5 kg
Quantity in Box	720 pcs
ROHS compliant	yes 🛈

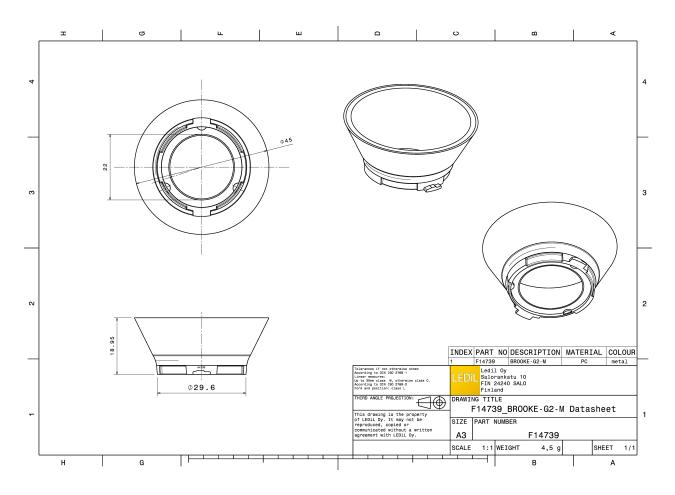


PRODUCT DATASHEET F14739\_BROOKE-G2-M

#### **MATERIAL SPECIFICATIONS:**

Component BROOKE-G2-M **Type** Reflector Material PC **Colour** metal Coating lacquer







bridgetux. LED FWHM Efficiency Peak intensity Required comp F15616_HEK		
bridgelux LED FWHM Efficiency Peak intensity Required comp C16142_HEH		
bridgelux LED FWHM Efficiency Peak intensity Required comp LEDiL: C1614		
	onents: KLA-SOCKET-K RBARA-RZ-LENS	

PRODUCT DATASHEET



<b>F</b>			
bridgelux.			90 <sup>4</sup>
LED	Vesta DTW 15mm (33W)		73*
FWHM	41.0°		100
Efficiency	90 %		60* CO*
Peak intensity	1.300 cd/lm		
Required comp	onents:		43°
C16142_HE	KLA-SOCKET-K		
Bender Wirth	:: 491 Typ L8		1200
			30° 30° 30° 30°
bridgelux.			50° 50°
LED	Vesta DTW 9mm (6W/12W)	and the second se	75.
FWHM	31.0°		
Efficiency	86 %		60 <sup>-60</sup>
Peak intensity	1.500 cd/lm		
Required comp	onents:		43 <sup>4</sup> 43 <sup>4</sup>
C16142_HE	KLA-SOCKET-K		
C14658_BAF	RBARA-RZ-LENS		
Bender Wirth	:: 490 Typ L8		36° 15° 0° 15°
bridgelux.			90 <sup>4</sup>
bridgelux. LED	Vesta TW 9mm (12W)		32. 33. 30. 30.
	Vesta TW 9mm (12W) 27.0°		32 35 36 36 36
LED			6)* 9)* 9)* 9)* 9)*
LED FWHM	27.0° 91 %		00 01 02 02 02 02 02 02 02 02 02 02
LED FWHM Efficiency	27.0° 91 % 2.000 cd/lm		97 97 97 97 97 97 97 97 97
LED FWHM Efficiency Peak intensity Required comp	27.0° 91 % 2.000 cd/lm		55 55 55 55 55 55 55 55 55 55 55 55 55
LED FWHM Efficiency Peak intensity Required comp	27.0° 91 % 2.000 cd/lm onents: KLA-SOCKET-K		93* 93* 93* 93* 90* 90* 90* 90* 90* 90* 90* 90* 90* 90
LED FWHM Efficiency Peak intensity Required comp C16142_HE	27.0° 91 % 2.000 cd/lm onents: KLA-SOCKET-K		200 200 200 200 000 000 000 000
LED FWHM Efficiency Peak intensity Required comp C16142_HE	27.0° 91 % 2.000 cd/lm onents: KLA-SOCKET-K		
LED FWHM Efficiency Peak intensity Required comp C16142_HEF Bender Wirth	27.0° 91 % 2.000 cd/lm onents: KLA-SOCKET-K		365 257 07 250 362
LED FWHM Efficiency Peak intensity Required comp C16142_HEF Bender Wirth	27.0° 91 % 2.000 cd/lm ponents: KLA-SOCKET-K h: 490 Typ L8		30 <sup>2</sup> 20 <sup>3</sup> 0 <sup>4</sup> 30 <sup>4</sup>
LED FWHM Efficiency Peak intensity Required comp C16142_HEF Bender Wirth	27.0° 91 % 2.000 cd/lm bonents: KLA-SOCKET-K 1: 490 Typ L8 Vesta TW 9mm (12W)		30 <sup>2</sup> 20 <sup>3</sup> 0 <sup>4</sup> 30 <sup>4</sup>
LED FWHM Efficiency Peak intensity Required comp C16142_HEF Bender Wirth bridgetux. LED FWHM	27.0° 91 % 2.000 cd/lm ponents: KLA-SOCKET-K 1: 490 Typ L8 Vesta TW 9mm (12W) 30.0° 85 %		00 00 00 00 00 00 00 00 00 00
LED FWHM Efficiency Peak intensity Required comp C16142_HEH Bender Wirth bridgetux. LED FWHM Efficiency	27.0° 91 % 2.000 cd/lm bonents: KLA-SOCKET-K 1: 490 Typ L8 Vesta TW 9mm (12W) 30.0° 85 % 1.600 cd/lm		30 <sup>2</sup> 20 <sup>3</sup> 0 <sup>4</sup> 30 <sup>4</sup>
LED FWHM Efficiency Peak intensity Required comp C16142_HEF Bender Wirth bridgetux LED FWHM Efficiency Peak intensity Required comp	27.0° 91 % 2.000 cd/lm bonents: KLA-SOCKET-K 1: 490 Typ L8 Vesta TW 9mm (12W) 30.0° 85 % 1.600 cd/lm		00 00 00 00 00 00 00 00 00 00
LED FWHM Efficiency Peak intensity Required comp C16142_HEF Bender Wirth bridgetux. LED FWHM Efficiency Peak intensity Required comp C16142_HEF C14658_BAF	27.0° 91 % 2.000 cd/lm ponents: KLA-SOCKET-K 1: 490 Typ L8 Vesta TW 9mm (12W) 30.0° 85 % 1.600 cd/lm ponents: KLA-SOCKET-K RBARA-RZ-LENS		00 00 00 00 00 00 00 00 00 00
LED FWHM Efficiency Peak intensity Required comp C16142_HEF Bender Wirth bridgelux. LED FWHM Efficiency Peak intensity Required comp C16142_HEF	27.0° 91 % 2.000 cd/lm ponents: KLA-SOCKET-K 1: 490 Typ L8 Vesta TW 9mm (12W) 30.0° 85 % 1.600 cd/lm ponents: KLA-SOCKET-K RBARA-RZ-LENS		00 00 00 00 00 00 00 00 00 00

PRODUCT DATASHEET



### PHOTOMETRIC DATA (MEASURED):

OTTICE		
CITIZE	N	90* 90*
LED	CLC020 Series (Dim-To-Warm)	75.
FWHM	31.0°	
Efficiency	84 %	60° 60°
Peak intensity	1.600 cd/lm	
Required comp	oonents:	g
C16142_HEI	KLA-SOCKET-K	1 100
C14658_BAI	RBARA-RZ-LENS	
Bender Wirth	1: 487 Typ L8	36° 35° 35°
CITIZE	N	50° 50°
LED	CLC030 Series (Dim-To-Warm)	73
FWHM	41.0°	
Efficiency	82 %	60° 60°
Peak intensity	1.200 cd/lm	
Required comp	oonents:	93° 63°
C16142_HEI	KLA-SOCKET-K	
C14658_BAI	RBARA-RZ-LENS	
Bender Wirth	1: 436 Typ L8	30°
CITIZE	N	50° 50°
LED	CLC030 Series (Dim-To-Warm)	75
FWHM	38.0°	400
Efficiency	88 %	69. 60.
Peak intensity	1.400 cd/lm	
Required comp	oonents:	900 CC*
C16142_HEI	KLA-SOCKET-K	
		- 3230
		30° 25° 0° 25° 36°
CITIZE	N	50° 30°
LED	CLU LES 4.2mm (HI-Ver.3)	73
FWHM	16.0°	
Efficiency	94 %	69* 60*
Peak intensity	3.200 cd/lm	
Required comp		95. 63.
	KLA-SOCKET-C	269
		30.
		15° 0° 15°



### PHOTOMETRIC DATA (MEASURED):

CITIZE	N	90*
LED	CLU700/701	75*
FWHM	23.0°	
Efficiency	94 %	50° 80°
Peak intensity		
Required com		gr <u>1000</u> Gr
-	M-ADAPTER-50-B	
	255_HEKLA-SOCKET-C	
		364 100 100 100 36
CITIZE	N	90° 90° 90°
LED	LCN-C01B (Tunable White)	29
FWHM	29.0°	
Efficiency	86 %	60* 60*
Peak intensity	1.700 cd/lm	
Required com	ponents:	er er
C16142_HE	KLA-SOCKET-K	
C14658_BA	RBARA-RZ-LENS	
Bender Wirt	h: 481 Typ L8	30* 25* 0* 55* 34*
CITIZE	EN .	90 <sup>4</sup> 99 <sup>4</sup>
LED	LCN-C02B (Tunable White)	75
FWHM	39.0°	400 - 400
Efficiency	84 %	601 601
Peak intensity	1.100 cd/lm	
Required com	ponents:	\$7. \$7.
C16142_HE	KLA-SOCKET-K	
C14658_BA	RBARA-RZ-LENS	
Bender Wirt	h: 481 Typ L8	30° 53° 6° 13° ×6°
CITIZE	N	50* 50*
LED	LCN-C02B (Tunable White)	75
FWHM	36.0°	- 400
Efficiency	90 %	60°
Peak intensity	1.500 cd/lm	
Required com	ponents:	er la construction de la constru
C16142_HE	KLA-SOCKET-K	
1		



CREE -		90 <sup>+</sup>
LED	CMA1516	75
FWHM	29.0°	
Efficiency	94 %	
Peak intensity	1.800 cd/lm	
Required comp	ponents:	gr
F15256_HE	KLA-SOCKET-D	
		150
		36 <sup>1</sup> 15 <sup>2</sup> 0 <sup>4</sup> 15 <sup>2</sup>
CREE -		50°
LED	CMA1825	25
FWHM	36.0°	
Efficiency	94 %	en la companya de la
Peak intensity	1.400 cd/lm	200
Required comp	ponents:	
F15254_HE	KLA-SOCKET-B	
		30* 30*
CREE -		90 <sup>4</sup> 90 <sup>4</sup>
LED	CXA/B 13xx	77
FWHM	25.0°	
Efficiency	94 %	00 <sup>4</sup> 00 <sup>4</sup>
Peak intensity	2.300 cd/lm	
Required com		52
	KLA-SOCKET-J	162
		30* 200 30*
CREE <del>(</del>		
LED	CXA/B 15xx	75
FWHM	32.0°	
Efficiency	94 %	
Peak intensity	1.700 cd/lm	
Required com		
F15256_HE	KLA-SOCKET-D	2200
F15256_HE		200 200
F15256_HE		94



### PHOTOMETRIC DATA (MEASURED):

<b>ELUM</b>	INUS	90*
LED	CDM-14 (Dim-To-Warm)	
FWHM	36.0°	
Efficiency	87 %	60 <sup>1</sup>
Peak intensity	1.500 cd/lm	
Required com	ponents:	a. (
C16142_HE	KLA-SOCKET-K	1220
Bender Wirt	h: 491 Typ L8	
		30 <sup>4</sup> 1600 3 20 60 12 1
<b>E</b> LUM	INUS	94
LED	CDM-14 (Dim-To-Warm)	
FWHM	38.0°	
Efficiency	82 %	60 <sup>2</sup>
Peak intensity	1.200 cd/lm	
Required com	ponents:	9° 00 0
C16142_HE	KLA-SOCKET-K	
	RBARA-RZ-LENS	
Bender Wirt	h: 491 Typ L8	30 <sup>+</sup> 20 <sup>5</sup> 0 <sup>+</sup> 10 <sup>+</sup>
() LUM	INUS	89*
LED	CDM-6 (Dim-To-Warm)	
FWHM	26.0°	40
Efficiency	85 %	59 <sup>4</sup> 500 500
Peak intensity	2.000 cd/lm	
Required com	ponents:	9° - 1220 -
	KLA-SOCKET-K	100
	RBARA-RZ-LENS	
Bender Wirt	h: 490 Typ L8	30 <sup>4</sup> 200 3
	INUS	90 <sup>*</sup>
LED	CDM-9 (Dim-To-Warm)	75 2
FWHM	28.0°	
Efficiency	89 %	64 <sup>6-</sup>
Peak intensity		
Required com	•	
	KLA-SOCKET-K	1620
Bender Wirt	h: 490 Typ L8	
		39 <sup>6</sup>



ELUM	INUS		90* 90
LED	CDM-9 (Dim-To-Warm)		77
FWHM	30.0°		
Efficiency	84 %		601 C
Peak intensity	1.600 cd/lm		
Required comp	oonents:		es de la companya de
C16142_HE	KLA-SOCKET-K		
C14658_BA	RBARA-RZ-LENS		
Bender Wirth	h: 490 Typ L8		30 <sup>+</sup> 32 <sup>-</sup> 0 <sup>+</sup> 13 <sup>-</sup> 30
() LUM	INUS		30 <sup>+</sup>
LED	CTM-9 (Tunable White)		3.
FWHM	30.0°		40
Efficiency	85 %		60
Peak intensity	1.700 cd/lm	and the second	
Required comp	oonents:		69* C
C16142_HE	KLA-SOCKET-K		
C14658_BA	RBARA-RZ-LENS		
Bender Wirth	h: 495 Typ L8		347 357 of 357 30
(C) LUM	INUS		90 <sup>4</sup>
LED	CXM-14		
FWHM	40.0°		
Efficiency	94 %		60* C
Peak intensity	1.400 cd/lm		
Required comp	oonents:		
F15859_HEI	KLA-SOCKET-I		
			30- 237 0- 337 - 38
(C) LUM	INUS		8*
LED	CXM-9		3.
FWHM	32.0°		
Efficiency	94 %		
Peak intensity	1.700 cd/lm		
Required comp	ponents:		er le
F15255_HEI	KLA-SOCKET-C		
			15° 0° 15°

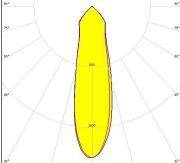
PRODUCT DATASHEET



# SAMSUNG

LED COB D Series LES 9.8 mm FWHM 28.0° Efficiency 94 % Peak intensity 2.000 cd/lm Required combensts: F15255\_HEKLA-SOCKET-C



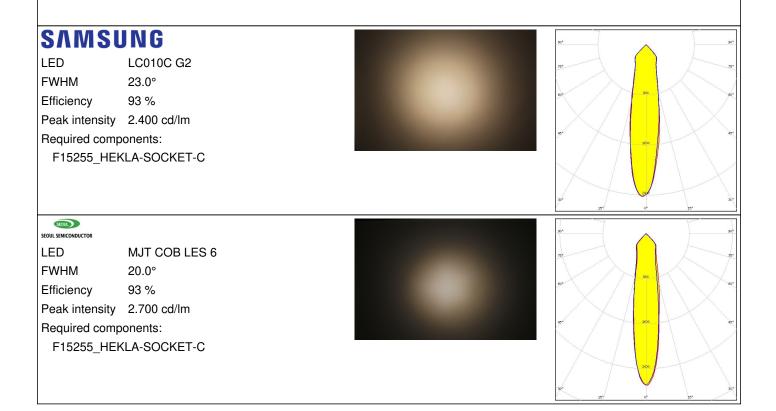


PRODUCT DATASHEET

F14739\_BROOKE-G2-M

# SAMSUNG

LED COB D Series LES 9.8 mm FWHM 28.0° Efficiency 94 % Peak intensity 2.000 cd/lm Required components: F15255\_HEKLA-SOCKET-C





SEQUE SEMICONDUCTOR LED FWHM Efficiency Peak intensity Required comp F15255_HEI		200 200 200 200 200 200 200 200
TRIDON		90° 90°
LED	SLE G1 11mm 1000lm 927 Sunset R EXC	
FWHM	40.0°	
Efficiency	86 %	60° 60°
Peak intensity	1.100 cd/lm	
Required comp	ponents:	42°
F15859_HE	KLA-SOCKET-I	
C14658_BA	RBARA-RZ-LENS	1230
		30° 30° 30°
TRIDON		90° 90°
LED	SLE G1 15mm 2000lm 927 Sunset R EXC	
FWHM	44.0°	
Efficiency	86 %	60° 60°
Peak intensity	1.100 cd/lm	X /    X
Required comp	ponents:	45°
	(LA-SOCKET-I	
C14658_BA	RBARA-RZ-LENS	34° 120 32°
1		15° 0° 15°



PRODUCT DATASHEET

F14739\_BROOKE-G2-M

#### PHOTOMETRIC DATA (SIMULATED):

#### bridgelux

 LED
 V8 Gen6

 FWHM
 25.0°

 Efficiency
 0 %

 Peak intensity
 0.000 cd/lm

 Required components:
 F15253\_HEKLA-SOCKET-A

#### bridgelux

LED	V8 Gen6	
FWHM	25.0°	
Efficiency	%	
Peak intensity	cd/Im	
Required compo	nents:	
F15253_HEKLA-SOCKET-A		

### **CITIZEN**

 LED
 CLL02x/CLU02x (LES10)

 FWHM
 26.0°

 Efficiency
 0 %

 Peak intensity
 0.000 cd/lm

 Required components:
 F15255\_HEKLA-SOCKET-C

# CITIZEN

 LED
 CLL02x/CLU02x (LES10)

 FWHM
 26.0°

 Efficiency
 %

 Peak intensity
 cd/Im

 Required components:
 F15255\_HEKLA-SOCKET-C

Last update: 25/05/2018Subject to change without prior noticePublished: 02/05/2018LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.12/16



PRODUCT DATASHEET

F14739\_BROOKE-G2-M

#### **PHOTOMETRIC DATA (SIMULATED):**

# **CITIZEN**

 LED
 CLL02x/CLU02x (LES10)

 FWHM
 26.0°

 Efficiency
 92 %

 Peak intensity
 2.500 cd/lm

 Required components:
 F15255\_HEKLA-SOCKET-C

# CREE ≑

 LED
 CXA/B 15xx

 FWHM
 25.0°

 Efficiency
 0 %

 Peak intensity
 0.000 cd/lm

 Required components:
 F15256\_HEKLA-SOCKET-D

# CREE ≑

LEDCXA/B 1816 & CXA/B 1820 & CXA 1850FWHM31.0°Efficiency%Peak intensitycd/ImRequired components:<br/>F15254\_HEKLA-SOCKET-B

# CREE ≑

LED CXA/B 1816 & CXA/B 1820 & CXA 1850 FWHM 31.0° Efficiency 0 % Peak intensity 0.000 cd/lm Required components: F15254\_HEKLA-SOCKET-B



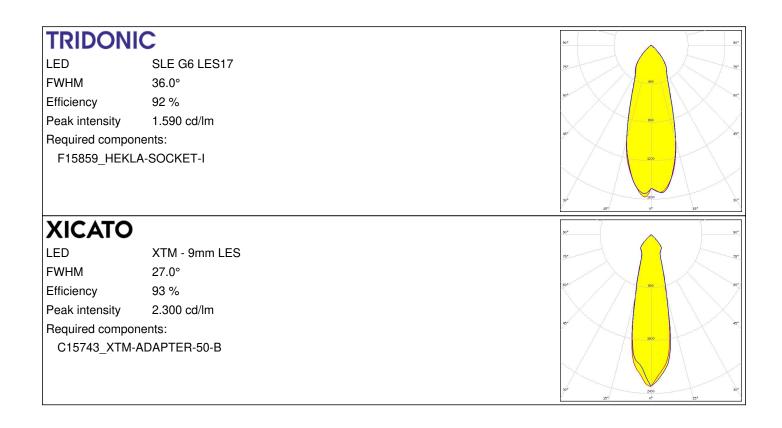
### PHOTOMETRIC DATA (SIMULATED):

Angelia		
<b>NICHIA</b> LED FWHM Efficiency Peak intensity Required compor F15848_HEKL/		99° 990 77 000 60° 77 200 60°
SAMSU	NG	90°
LED FWHM Efficiency Peak intensity Required compor F15859_HEKL/	COB D Series LES 14.5 mm 35.0° 88 % 1.570 cd/lm rents:	77
TRIDONI LED	C SLE G6 LES10	
FWHM Efficiency Peak intensity Required compor	29.0° 94 % 2.100 cd/lm	60
F15255_HEKL/		200 200 200 200 200 200 200 200 200 200
TRIDONI	C	90° 90'
LED FWHM Efficiency Peak intensity Required compor F15859_HEKL/	SLE G6 LES15 32.0° 92 % 1.900 cd/lm rents:	75 400 72 00 00 00 00 00 00 00 00 00 00 00 00 00
		30 <sup>4</sup> 25 <sup>5</sup> 30 <sup>6</sup> 25 <sup>5</sup> 30 <sup>4</sup>

PRODUCT DATASHEET



#### **PHOTOMETRIC DATA (SIMULATED):**







#### **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.

Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

#### **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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