

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.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









BARBARA-S-PF

~15° spot beam

TECHNICAL SPECIFICATIONS:

Dimensions Ø 70 mm
Height 41.7 mm
Fastening socket
Colour metal

Box size 480 x 280 x 300 mm

Box weight 6.1 kg

Quantity in Box 288 pcs

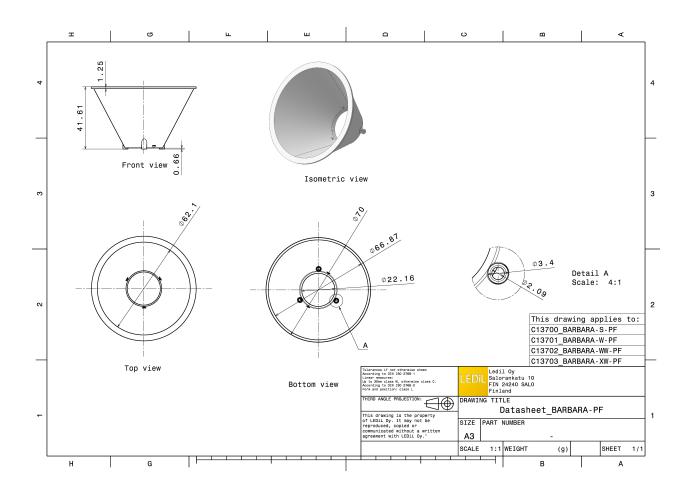
ROHS compliant yes 1



MATERIAL SPECIFICATIONS:

ComponentTypeMaterialColourCoatingBARBARA-S-PFReflectorPCmetalHMDS





PHOTOMETRIC DATA (MEASURED):

bridgelux.

LED V15 Gen6
FWHM 18.0°
Efficiency 92 %
Peak intensity 4.750 cd/lm

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 456 Typ L2



bridgelux.

LED V8 Gen6
FWHM 13.0°
Efficiency 86 %
Peak intensity 10.600 cd/lm

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 460 Typ L1

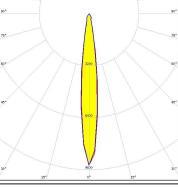


bridgelux.

LED VERO10
FWHM 13.0°
Efficiency 90 %
Peak intensity 9.300 cd/lm
Required components:

C13708_PF-SOCKET-VERO10



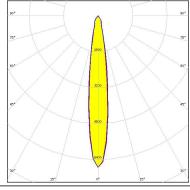


bridgelux.

LED VERO13
FWHM 15.0°
Efficiency 91 %
Peak intensity 6.800 cd/lm
Required components:

C13709_PF-SOCKET-VERO13-18





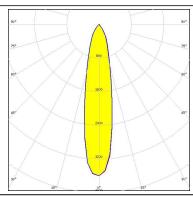
PHOTOMETRIC DATA (MEASURED):

bridgelux.

LED VERO18
FWHM 22.0°
Efficiency 91 %
Peak intensity 3.600 cd/lm
Required components:

C13709_PF-SOCKET-VERO13-18





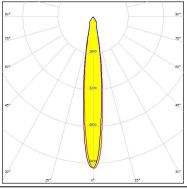
bridgelux.

LED Xenio Point 13mm

FWHM 14.0°
Efficiency 91 %
Peak intensity 6.640 cd/lm
Required components:

C13709_PF-SOCKET-VERO13-18





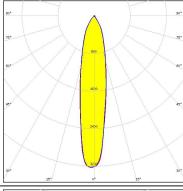
bridgelux.

LED Xenio Point 18mm

FWHM 21.0°
Efficiency 86 %
Peak intensity 3.230 cd/lm
Required components:

C13709_PF-SOCKET-VERO13-18





CITIZEN

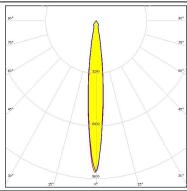
LED CLL02x/CLU02x (LES10)

FWHM 12.0°
Efficiency 89 %
Peak intensity 9.200 cd/lm
Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 434 Typ L1





PHOTOMETRIC DATA (MEASURED):

CITIZEN

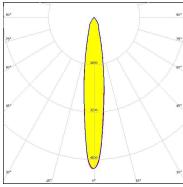
LED CLL03x/CLU03x

FWHM 16.0°
Efficiency 88 %
Peak intensity 5.100 cd/lm
Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 433 Typ L1





CITIZEN

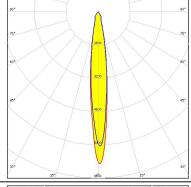
LED CLU720/721

FWHM 14.0°
Efficiency 87 %
Peak intensity 7.300 cd/lm
Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 433 Typ L1





CREE ÷

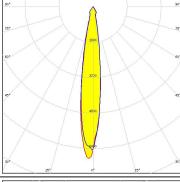
LED CXA/B 15xx

FWHM 15.0°
Efficiency 89 %
Peak intensity 6.900 cd/lm
Required components:

C13709 PF-SOCKET-VERO13-18

Bender Wirth: 441 Typ L1





CREE 🕏

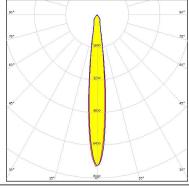
LED CXA/B 15xx

FWHM 13.0°
Efficiency 85 %
Peak intensity 7.400 cd/lm
Required components:

C13083_PF-SOCKET

C14658_BARBARA-RZ-LENS





PHOTOMETRIC DATA (MEASURED):

CREE 💠

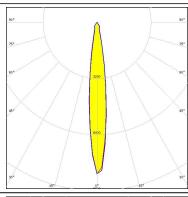
LED CXA/B 15xx

FWHM 14.0° Efficiency 91 % Peak intensity 8.600 cd/lm

Required components:

C14115_PF-SOCKET-CXA15-18





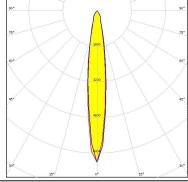
CREE 🚓

LED CXA/B 1816 & CXA/B 1820 & CXA 1850

FWHM 15.0°
Efficiency 92 %
Peak intensity 6.800 cd/lm
Required components:

C14115_PF-SOCKET-CXA15-18





CREE ÷

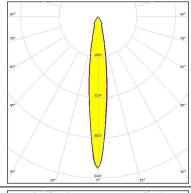
LED CXA/B 1816 & CXA/B 1820 & CXA 1850

FWHM 14.0°
Efficiency 86 %
Peak intensity 6.100 cd/lm
Required components:

C13709 PF-SOCKET-VERO13-18

Bender Wirth: 437 Typ L1





DESCRIPTION LUMILEDS

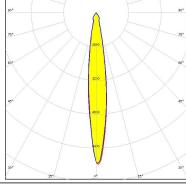
LED LUXEON CoB 1202/1203

FWHM 14.0°
Efficiency 88 %
Peak intensity 7.300 cd/lm
Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 438 Typ L1





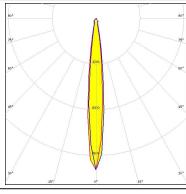
PHOTOMETRIC DATA (MEASURED):

MUMILEDS

LED LUXEON CoB 1202/1203

FWHM 12.0°
Efficiency 90 %
Peak intensity 10.600 cd/lm
Required components:
C14037_PF-NSX-SOCKET





MUMILEDS

LED LUXEON CoB 1202s

FWHM 9.0° Efficiency 90 % Peak intensity 19.600 cd/lm Required components:

C13761_PF-SOCKET-CXA15

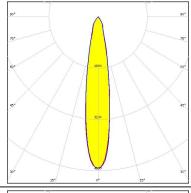


WNICHIA

LED COB J-Type
FWHM 19.0°
Efficiency 91 %
Peak intensity 4.730 cd/lm
Required components:

C14037_PF-NSX-SOCKET





WNICHIA

LED COB J-Type

FWHM 17.0°
Efficiency 88 %
Peak intensity 4.600 cd/lm
Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 463 Typ L2



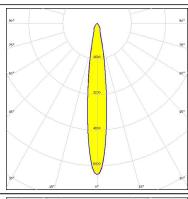
PHOTOMETRIC DATA (MEASURED):

WNICHIA

LED COB L-Type (LES 11)

FWHM 15.0°
Efficiency 90 %
Peak intensity 6.800 cd/lm
Required components:
C14037_PF-NSX-SOCKET





WNICHIA

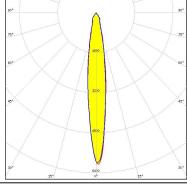
LED COB L-Type (LES 11)

FWHM 14.0°
Efficiency 86 %
Peak intensity 6.100 cd/lm
Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 438 Typ L1



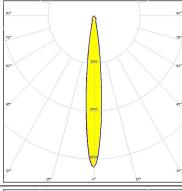


WNICHIA

LED COB L-Type (LES 9)

FWHM 13.0°
Efficiency 90 %
Peak intensity 10.100 cd/lm
Required components:
C14037_PF-NSX-SOCKET





WNICHIA

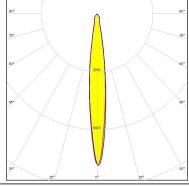
LED COB L-Type (LES 9)

FWHM 13.0°
Efficiency 90 %
Peak intensity 8.400 cd/lm
Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 438 Typ L1





PHOTOMETRIC DATA (MEASURED):

WNICHIA

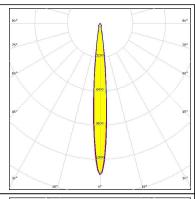
LED NSCxL036A

FWHM 11.0° Efficiency 89 %

Peak intensity 14.120 cd/lm Required components:

C14037_PF-NSX-SOCKET





OSRAM Opto Semicond

LED Soleriq P13

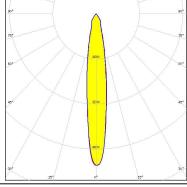
FWHM 16.0° 91 % Efficiency Peak intensity 5.400 cd/lm

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 437 Typ L1





OSRAM Onto Semiconductors

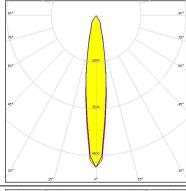
LED Soleriq P13 **FWHM** 15.0°

Efficiency 89 % Peak intensity 5.380 cd/lm

Required components:

C14115_PF-SOCKET-CXA15-18





OSRAM Opto Semiconductors

LED

Soleriq P6

FWHM 12.0° 89 % Efficiency

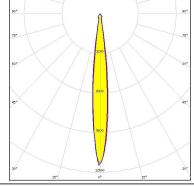
Peak intensity 12.000 cd/lm

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 446 Typ L1





PHOTOMETRIC DATA (MEASURED):

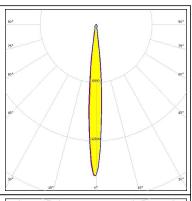
OSRAM Opto Semiconductors

LED Soleriq P6
FWHM 10.0°
Efficiency 90 %
Peak intensity 16.700 cd/lm

Required components:

C13761_PF-SOCKET-CXA15





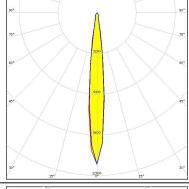
OSRAM Opto Semiconductors

LED Soleriq P9
FWHM 12.0°
Efficiency 91 %
Peak intensity 11.800 cd/lm

Required components:

C13761_PF-SOCKET-CXA15





OSRAM Opto Semiconductors

LED Soleriq P9 FWHM 12.0°

Efficiency 92 %

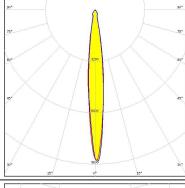
Peak intensity 9.600 cd/lm

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 461 Typ L1





OSRAM Opto Semiconductors

LED

FWHM

Soleriq S13 14.0°

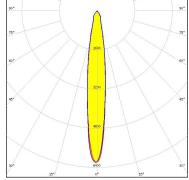
Efficiency 89 %
Peak intensity 6.200 cd/lm

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 437 Typ L1





PHOTOMETRIC DATA (MEASURED):

SAMSUNG

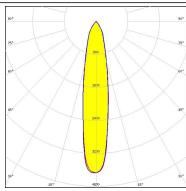
LED LC026B / 033B / 040B

FWHM 20.0°
Efficiency 88 %
Peak intensity 3.700 cd/lm
Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 450 Typ L2





TRIDONIC

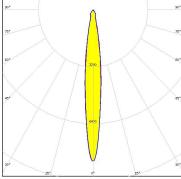
LED SLE G5 LES11

FWHM 13.0°
Efficiency 91 %
Peak intensity 8.500 cd/lm
Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 434 Typ L1





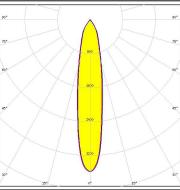
XICATO

LED XTM - 19mm LES

FWHM 20.0°
Efficiency 88 %
Peak intensity 3.600 cd/lm
Required components:

C14636_XTM-PF-ADAPTER





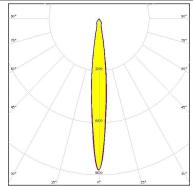
XICATO

LED XTM - 9mm LES

FWHM 12.0°
Efficiency 90 %
Peak intensity 9.300 cd/lm
Required components:

C14636_XTM-PF-ADAPTER





PHOTOMETRIC DATA (SIMULATED):

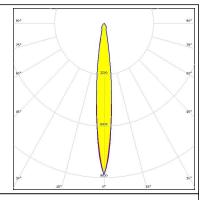
bridgelux.

LED V10 Gen7
FWHM 12.0°
Efficiency 91 %
Peak intensity 9.440 cd/lm

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 434 Typ L1



bridgelux.

LED VERO10 FWHM 13.0° Efficiency 0 %

Peak intensity 0.000 cd/lm

Required components:

bridgelux

LED VERO13 FWHM 15.0° Efficiency 0 %

Peak intensity 0.000 cd/lm

Required components:

bridgelux.

LED VERO18 FWHM 21.0° Efficiency 0 %

Peak intensity 0.000 cd/lm

Required components:

PHOTOMETRIC DATA (SIMULATED):

CREE 💠

LED CXA/B 15xx

FWHM 12.0° Efficiency 0 %

Peak intensity 0.000 cd/lm

Required components:

MILEDS

LED LUXEON CoB Compact

FWHM 9.0° Efficiency 90 %

Peak intensity 19.600 cd/lm

Required components:

C13761_PF-SOCKET-CXA15

LUMINUS

LED CXM-14
FWHM 16.0°
Efficiency 88 %
Peak intensity 5.130 cd/lm

Required components:

C13709 PF-SOCKET-VERO13-18

Bender Wirth: 433 Typ L1

ELUMINUS

LED CXM-9
FWHM 12.0°
Efficiency 89 %
Peak intensity 9.200 cd/lm

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 434 Typ L1

PHOTOMETRIC DATA (SIMULATED):

OSRAM Onto Semiconductors

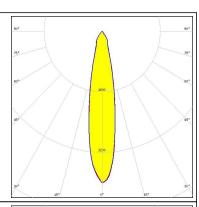
LED Soleriq S15 FWHM 20.0° Efficiency 88 %

Peak intensity 4.013 cd/lm

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 433 Typ L1



SAMSUNG

LED LC010C

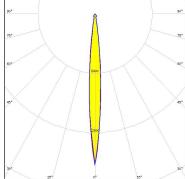
FWHM 9.1° Efficiency 89 %

Peak intensity 16.300 cd/lm

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 479 Typ L1



SAMSUNG

LED LC020C

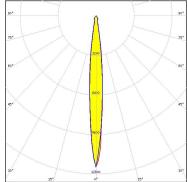
FWHM 10.0° Efficiency 89 %

Peak intensity 12.300 cd/lm

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 479 Typ L1



SAMSUNG

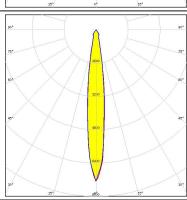
LED LC040C FWHM 13.0° Efficiency 85 %

Peak intensity 7.300 cd/lm

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 480 Typ L1





PHOTOMETRIC DATA (SIMULATED):

SEOUL

LED ZC12/18 **FWHM** 16.0° Efficiency 88 % Peak intensity 5.100 cd/lm

Required components:

C13709_PF-SOCKET-VERO13-18

Bender Wirth: 433 Typ L1

SEOUL SEOUL SEMICONDUCTOR

LED ZC4/6 **FWHM** 12.0° Efficiency 89 % 9.200 cd/lm

Peak intensity

Required components: C13709_PF-SOCKET-VERO13-18

Bender Wirth: 434 Typ L1



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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LEDIL Oy

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