

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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

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

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









### HB-5X1-FLAT-W

~55° wide beam with flat bottom structure allowing more freedom in PCB design

#### **TECHNICAL SPECIFICATIONS:**

Dimensions 123 + 25 mm

Height 8.5 mm

Fastening glue, screw, pin

Colour clear

Box size 480 x 280 x 300 mm

Box weight 8.4 kg

Quantity in Box 504 pcs

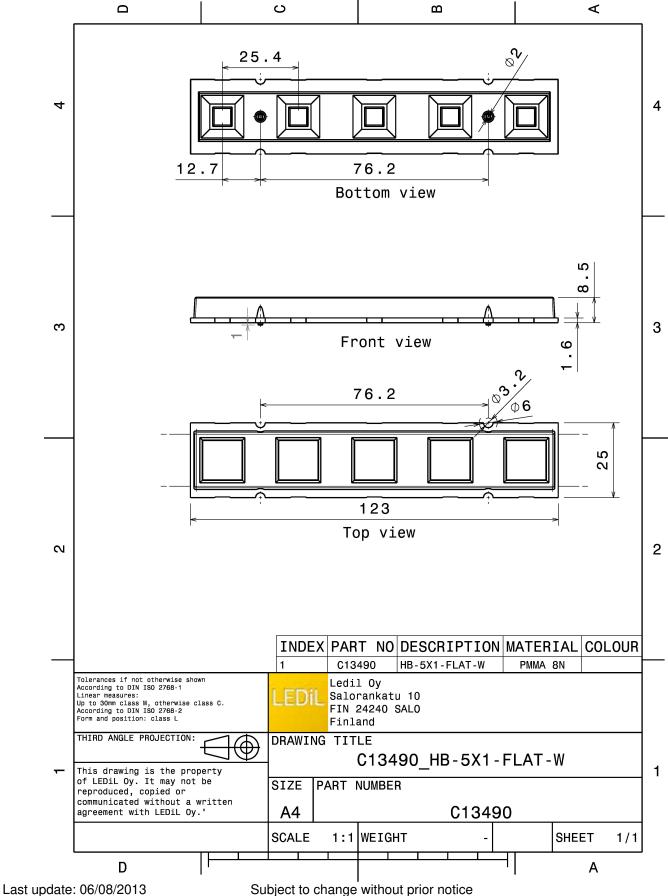
ROHS compliant yes 1



### **MATERIAL SPECIFICATIONS:**

ComponentTypeMaterialColourHB-5X1-FLAT-WLens arrayPMMAclear







## PHOTOMETRIC DATA (MEASURED):

### CREE 💠 LED XM-L **FWHM** 54.0° Efficiency 91 % Peak intensity cd/lm Required components: CREE \$ LED XP-G **FWHM** 51.0° Efficiency 90 % Peak intensity cd/lm Required components:

## PHOTOMETRIC DATA (SIMULATED):

## CREE 💠

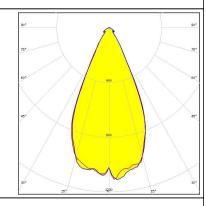
LED XM-L2
FWHM 56.0°
Efficiency %
Peak intensity cd/lm
Required components:

## CREE 🕏

LED XP-E
FWHM 47.0°
Efficiency %
Peak intensity cd/lm
Required components:

# CREE 🕏

LED XT-E
FWHM 50.0°
Efficiency %
Peak intensity cd/lm
Required components:



## **DESCRIPTION** LUMILEDS

LED LUXEON A
FWHM 45.0°
Efficiency %
Peak intensity cd/lm
Required components:

## PHOTOMETRIC DATA (SIMULATED):

## **MUMILEDS**

LED LUXEON R

FWHM 45.0° Efficiency % Peak intensity cd/lm Required components:

### **MUMILEDS**

LED LUXEON Rebel

FWHM 43.0° Efficiency % Peak intensity cd/lm Required components:

## **MUMILEDS**

LED LUXEON Rebel ES

FWHM 45.0° Efficiency % Peak intensity cd/lm Required components:

## **WNICHIA**

LED NCSxx19A
FWHM 50.0°
Efficiency %
Peak intensity cd/lm
Required components:



## PHOTOMETRIC DATA (SIMULATED):

## **WNICHIA**

LED NVSxx19A
FWHM 50.0°
Efficiency %
Peak intensity cd/Im
Required components:



### **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

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