Kingbright

28mm x 28mm LED CLUSTER

BL0709-18-76

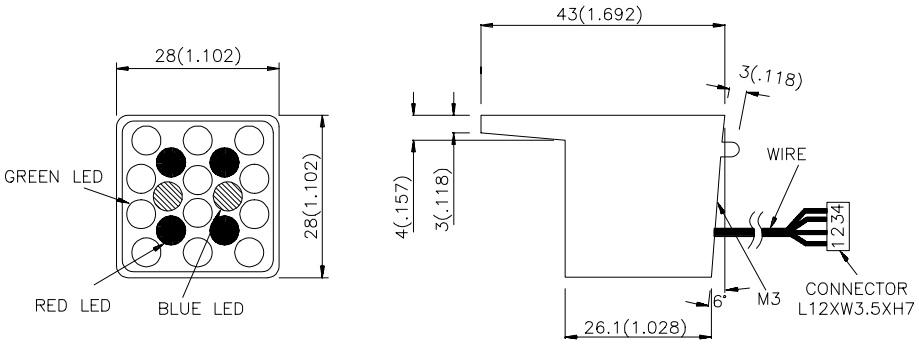
Features

- HIGH VISIBILITY.
- NO. OF BUILT-IN 5mm LED LAMPS: SUPER BRIGHT RED 4 PCS, SUPER BRIGHT GREEN 12 PCS AND BLUE 2 PCS.
- WATERPROOF PACKAGE WITH HOOD SUITABLE FOR OUTDOOR AND INDOOR INFORMATION BOARDS.
- CAN PRODUCE ANY COLOR IN VISIBLE SPECTRUM, INCLUDING WHITE LIGHT.

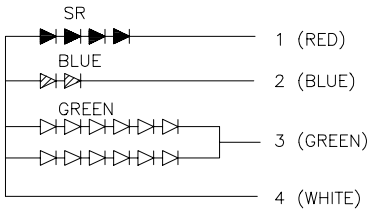
Description

The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.
The Blue source color devices are made with GaN on SiC Light Emitting Diode.
Static electricity and surge damage the LEDS.It is recommended to use a wrist band or anti-electrostatic glove when handing the LEDs.
All devices, equipment and machinery must be electrically grounded.
The Super Bright Green color devices are made with Gallium Phosphide Green Light Emitting Diode.

Package Dimensions



L-1583SRC-11.7 X4Pcs
L-1583MBC-11.7 X2Pcs
L-1583SGC-11.7X12Pcs



Notes:
1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25(0.01") unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subject to change without notice.

Kingbright

Selection Guide

Part No.	Emitting Color +Material	λD(nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle	IF (mA)
				Min.	Typ.	2θ1/2	
BL0709-18-76	GaAlAs	640	WATER CLEAR	800	1800	40°	20
	GaN	455	WATER CLEAR	25	70	40°	20
	GaP	568	WATER CLEAR	720	1200	40°	40

Note:
1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Color	Min.	Typ.	Max.	Units	Test Conditions
Iv	Luminous Intensity	BL0709-18-76	Super Bright Red Blue Super BrightGreen	800 25 720	1800 70 1200	-	mcd	IF=20mA IF=20mA IF=40mA
θ	Viewing Angle		Super Bright Red Blue Super BrightGreen	-	40	-	Deg	-
V_F	Forword Voltage		Super Bright Red Blue Super BrightGreen	-	7.4 7.6 13.2	10 9 15	V	IF=20mA IF=20mA IF=40mA
λpeak	Peak Wavelength		Super Bright Red Blue Super BrightGreen	-	660 430 565	-	nm	IF=20mA IF=20mA IF=40mA
λD	Dominate Wavelength		Super Bright Red Blue Super BrightGreen	-	640 455 568	-	nm	IF=20mA IF=20mA IF=40mA
Δλ1/2	Spectral Line Halfwidth		Super Bright Red Blue Super BrightGreen	-	20 65 30	-	nm	IF=20mA IF=20mA IF=40mA
I_R	Reverse Current		Super Bright Red Blue Super BrightGreen	-	10 10 20	-	uA	VR = 5V

Absolute Maximum Ratings at T_A=25°C

Parameter	Super Bright Red	Blue	Super Bright Green	Units
Power dissipation	210	270	580	mW
DC Forward Current	30	30	50	mA
Reverse Voltage	5	5	5	V
Operating Temperature	-40°C To +70°C			
Storage Temperature	-40°C To +85°C			