

PLCC Lightbar FPC 5050 Series Datasheet



Features :

- High Brightness SMD LED
- Low Power Requirement & Energy Efficient
- Suitable for Restricted Space

Typical Applications :

- Auditorium Walkway Lighting
- Stairway Accent Lighting
- Cabinet Lighting

Specification :

- Color : 



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General Information

Introduction

PLCC Lightbar FPC R is a strip of lighting module available in varying colors. Its flexible circuit board not only enables novel design thinking with bendable light source, but also offers a wide range of applications with dividable lighting segments.

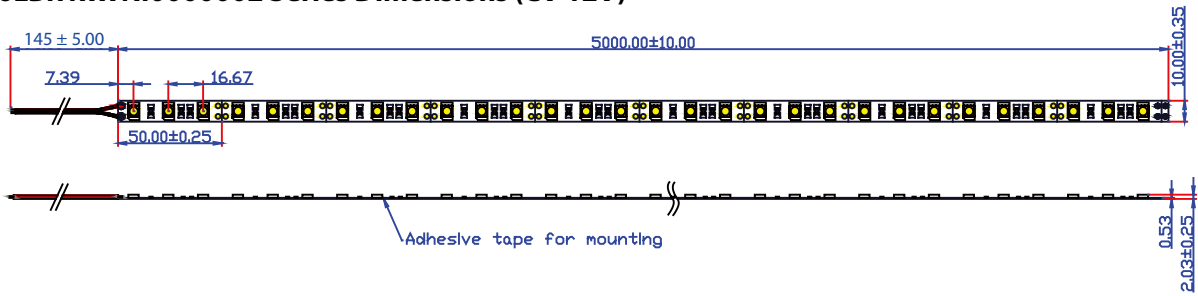
Ordering Code Format

6
X1
L B R 1
X2
x x
X3
N
X4
x
X5
0 0 0 0 0 0 x
X6

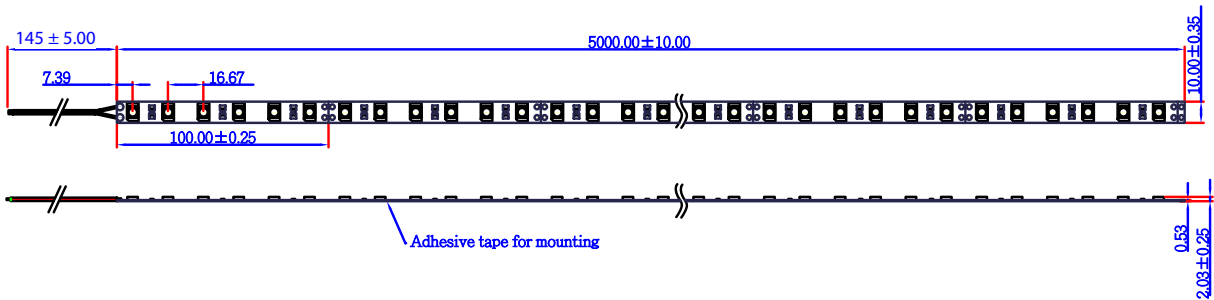
X1		X2		X3		X4		X5		X6	
Item	Module	Series	FPC	Emitting Color		Angle		Driver		Serial No.	
6	Module	LBR1	FPC	CW	Cool White	N	120	I	CV 12V	xxxxxxx	--
				NW	Neutral White			J	CV 24V		
				WW	Warm White						
				M1	RTB						
				M2	RTBW						

Product Dimensions

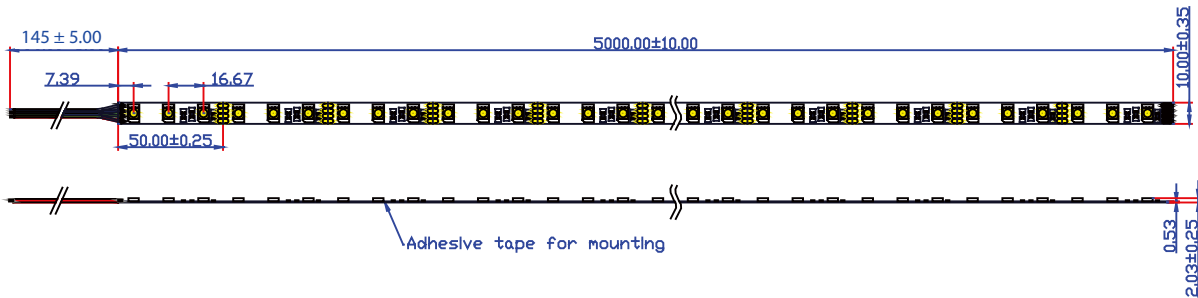
6LBR1xWNI000002 Series Dimensions (CV 12V)



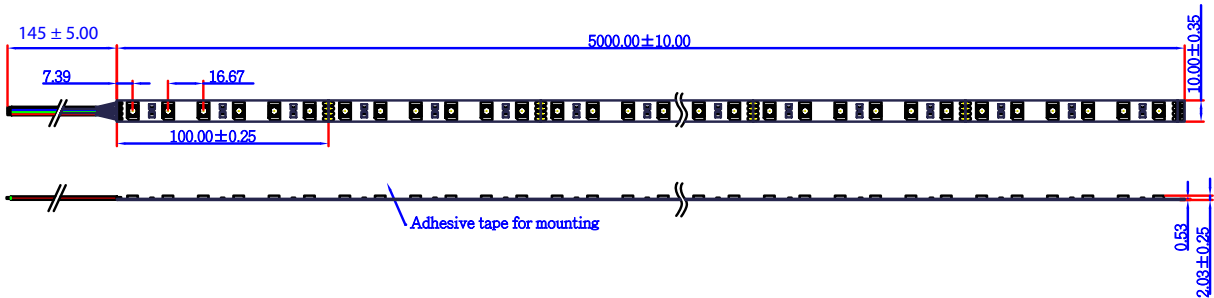
6LBR1xWNJ000000x Series Dimensions (CV 24V)



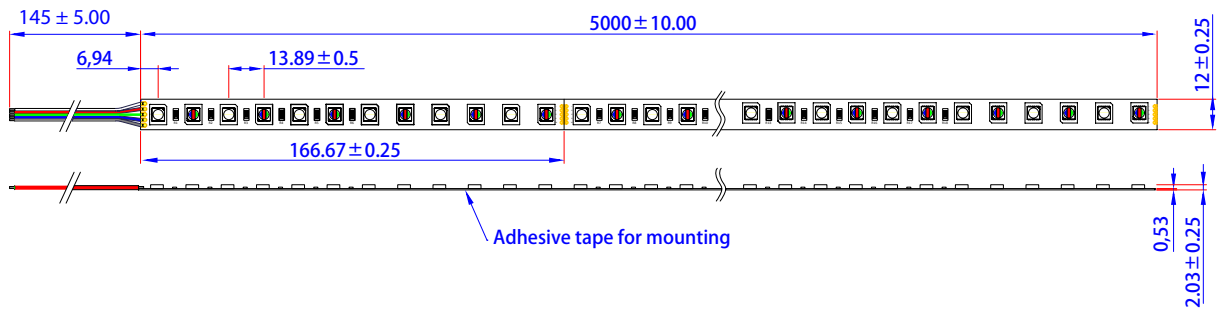
6LBR1M1NI0000001 Series Dimensions (RTB/ CV 12V)



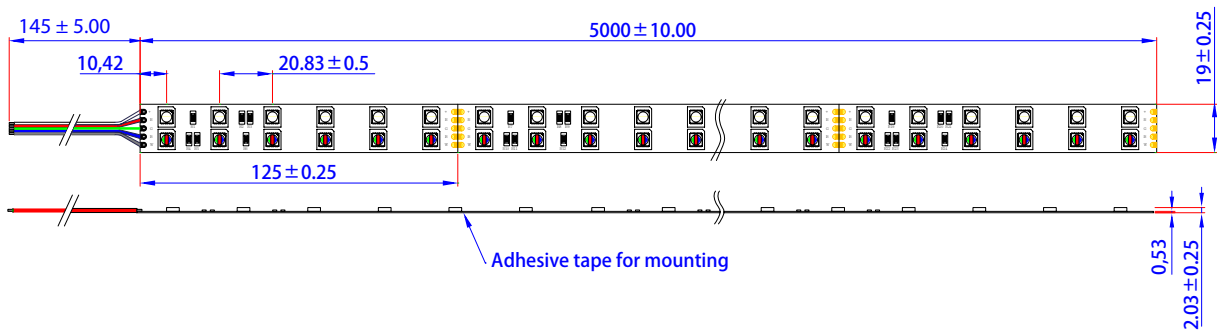
6LBR1M1NJ0000001 Series Dimensions (RTB/ CV 24V)



6LBR1M2NJ0000003 Series Dimensions (RTBW/ CV 24V)



6LBR1M2NJ0000001 Series Dimensions (RTBW/ CV 24V)



Notes:

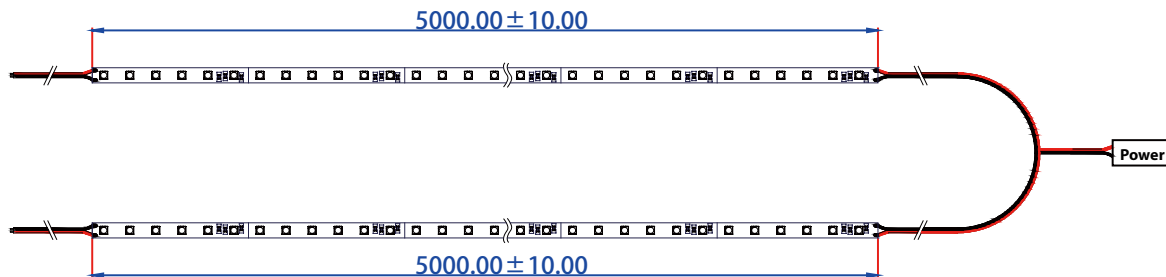
1. All dimensions are in millimeters.
2. Tolerance is ± 0.20 mm

Absolute Maximum Ratings

Parameter	Symbol	Value	Units
LED junction Temperature	T_j	125	°C
Operating Temperature	T_{opr}	-20 ~ +40	°C
Storage Temperature	T_s	-20 ~ +85	°C
Number of FPC Connection	-	15	M

Notes:

1. Proper current derating must be observed to maintain junction temperature below the maximum at all time.
2. LEDs are not designed to be driven in reverse bias.
3. Strongly recommended one power connection one set FPC, If over two set FPC recommended connection power between two FPC (Drawing).



Electric-Optical Characteristics (T_j=25°C)

6LBR1xWNI0000002 Series (CV 12V)

Order Code	Color	CCT (K/nm)	Input Voltage (CV)	Im (M)	Number of LEDs (M)	Power (W/M)	Forward Current (mA/M)	CRI
6LBR1CWNI0000002	Cool White	6000K	12	1140	60	14.4	1200	70
6LBR1NWNJ0000002	Neutral White	4000K	12	1020	60	14.4	1200	75
6LBR1WWNI0000002	Warm White	3000K	12	900	60	14.4	1200	80

6LBR1xWNJ000000x Series (CV 24V)

Order Code	Color	CCT (K/nm)	Input Voltage (CV)	Im (M)	Number of LEDs (M)	Power (W/M)	Forward Current (mA/M)	CRI
6LBR1CWNJ0000002	Cool White	6000K	24	1140	60	14.4	600	70
6LBR1NWNJ0000002	Neutral White	4000K	24	1020	60	14.4	600	75
6LBR1WWNJ0000004	Warm White	3000K	24	900	60	14.4	600	80

6LBR1M1Nx0000001 Series (RTB)

Order Code	Color	CCT(K/nm)	Input Voltage (CV)	Im (M)	Number of LEDs (M)	Power (W/M)	Forward Current (mA/M)
6LBR1M1NI0000001	Red	620~630nm	12	96	60	4.8	400
	Green	520~535nm	12	216			
	Blue	465~475nm	12	48			
6LBR1M1NJ0000001	Red	620~630nm	24	96	60	4.8	200
	Green	520~535nm	24	216			
	Blue	465~475nm	24	48			

6LBR1M2NJ000000x Series (RTBW/ CV 24V)

Order Code	Color	CCT(K/nm)	Input Voltage (CV)	Im (M)	Number of LEDs (M)	Power (W/M)	Forward Current (mA/M)	CRI
6LBR1M2NJ0000003	Cool White	6000K	24	684	36	8.64	360	70
	Red	620~630nm	24	57.6	36	2.88	120	-
	Green	520~535nm	24	129.6		2.88	120	-
	Blue	465~475nm	24	28.8		2.88	120	-
6LBR1M2NJ0000001	Cool White	6000K	24	912		48	11.52	480
	Red	620~630nm	24	76.8	48	3.84	160	-
	Green	520~535nm	24	172.8		3.84	160	-
	Blue	465~475nm	24	38.4		3.84	160	-

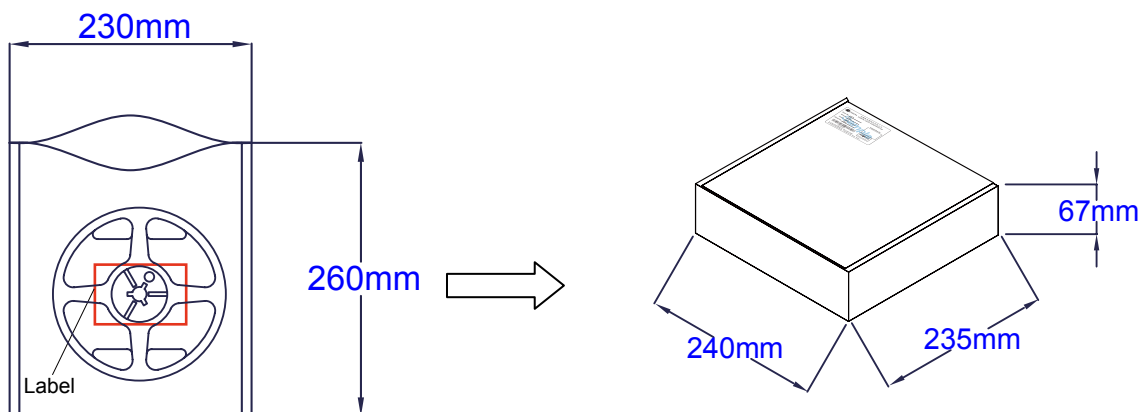
Note:

CCT/Wavelength and Forward Current are measured with an accuracy of ± 10%

Product Packaging Information

PLCC Lightbar FPC Material Description

Package Type	Part NO.	6LBR1xxNx000000x	6LBR1M2NJ0000001 (Width 19mm)	Dimension
Antistatic bag		1 Reel	1 Reel	260mm x 230mm
Inside box		4 Antistatic bags	2 Antistatic bags	240mm x 235mm x 67mm
Outside box		10 Inside boxes	10 Inside boxes	488mm x 364mm x 261mm

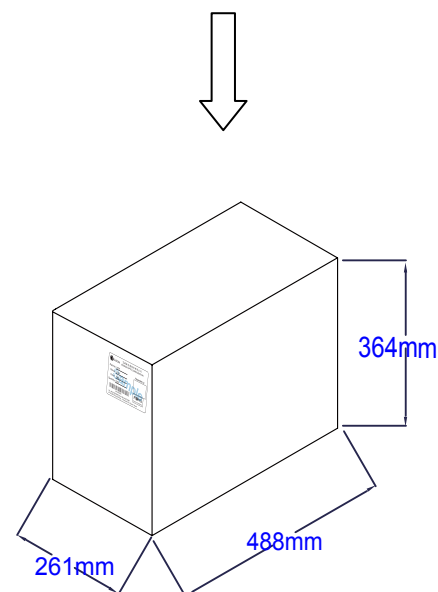


EX:

 艾笛森光電股份有限公司 EDISON OPTO CORPORATION	
Part No. : <u>6LBR1CWNJ0000005</u>	Inspected by:
Color : <u>Cool White(34W3FVB2)</u>	<input type="text"/>
Quantity : <u>1 Reel(5M)</u>	
Lot No. : <u>D1201-12110022</u>	
 A410000005 Tel +86-2-82276996 Fax +86-2-8227-6997 4F No.800 Chung-Cheng .., Chung-Ho City Taipei. Taiwan	

Label information

Part NO. : Order code
Color : Color(Emitter BIN color)
Quantity : The number of packing
Lot NO. : Date code



Environmental Compliance

PLCC lightbar FPC series are compliant to the Restriction of Hazardous Substances Directive or RoHS. The restricted materials including lead, mercury cadmium hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ether (PBDE) are not used in PLCC lightbar FPC series to provide an environmentally friendly product to the customers.

Application Notes

PLCC Lightbar series are available in red, yellow, green, blue, white, neutral white and warm white for application such as under-cabinet lighting, cove lighting and wall washing. Moreover, additional fine-tuned high color rendering index (CRI) version of white, neutral white and warm white all make PLCC Lightbar the ideal lighting choice for vividly building or decoration products, presenting the products outline.

Revision History

Versions	Description	Release Date
1	Establish order code information	2013/06/20
2	1. Update the Power value and CRI 2. Add the label information	2013/08/01

About Edison Opto

Edison Opto is a leading manufacturer of high power LED and a solution provider experienced in LDMS. LDMS is an integrated program derived from the four essential technologies in LED lighting applications- Thermal Management, Electrical Scheme, Mechanical Refinement, Optical Optimization, to provide customer with various LED components and modules. More Information about the company and our products can be found at www.edison-opto.com

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