EDISON
Lighting Design Manufacturing Service

Lightbar Series

PLCC Lightbar FPC 3528 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	LBR1	xx	N	x	000000x
X1	X2	X3	X4	X5	X6

X1		X2		X3		X4		X5		X6	
Item		Series		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						
				M7	RTBX						
				PX	Pink						

Ordering Code Format (NEW)

6	LBR1	xW	J	E0	J	xxx	xx
X1	X2	X3	X4	X5	X6	X7	X8

X1		X2		X3		X4		X5		X6		X7		X8	
Item		Series		Emitting Color		Driver		Length		Emitter		Number of LEDs (M)		Serial No.	
6	Module	LBR1	FPC	CW	Cool White	J	CV 24V	E0	5.0M	J	3528	180	180pcs	xx	--
				NW	Neutral White							240	240pcs		
				WW	Warm White										

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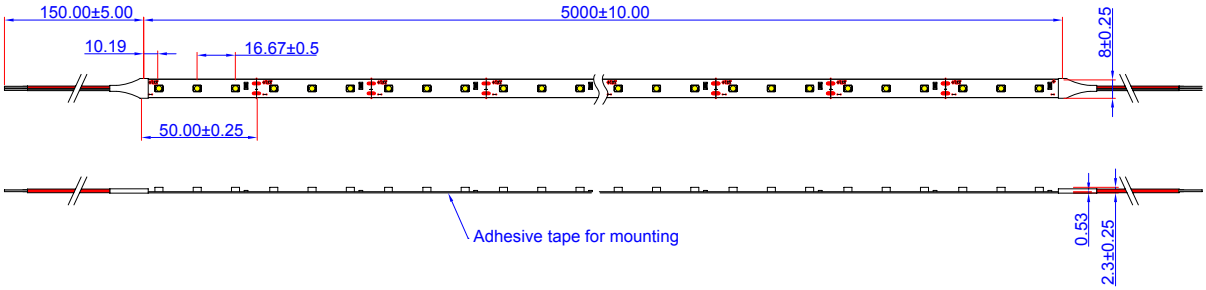
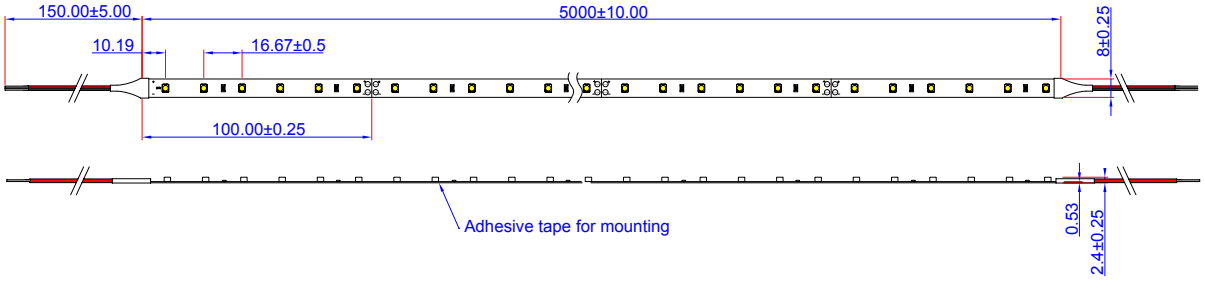
Product Dimensions

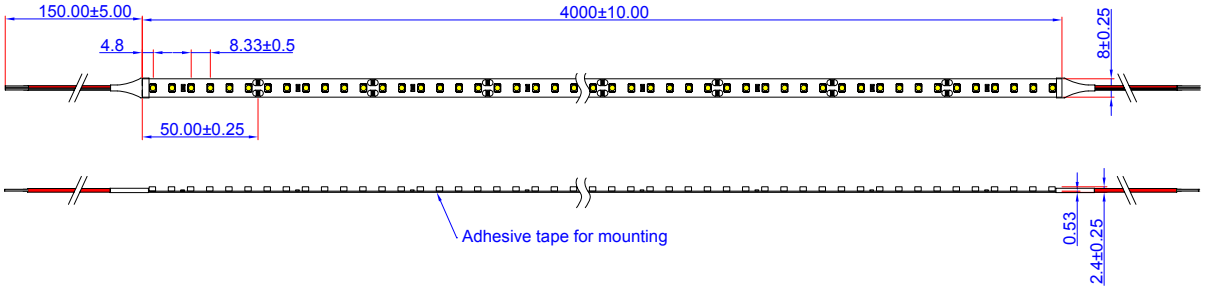
6LBR1xxNI0000001 Series Dimensions (CV 12V)



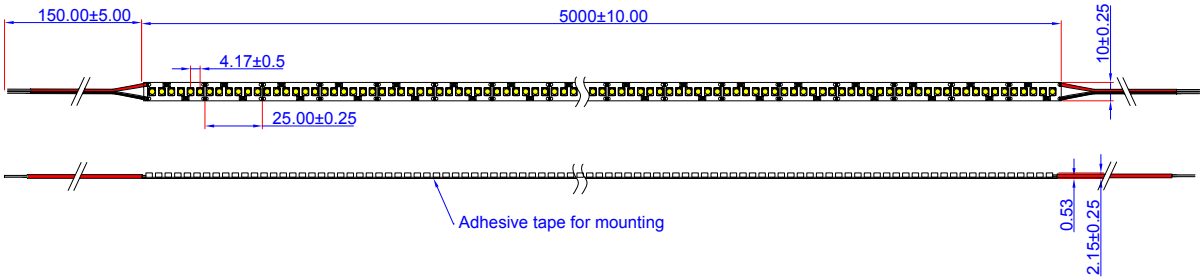
6LBR1xxNJ000000x Series Dimensions (CV 24V)



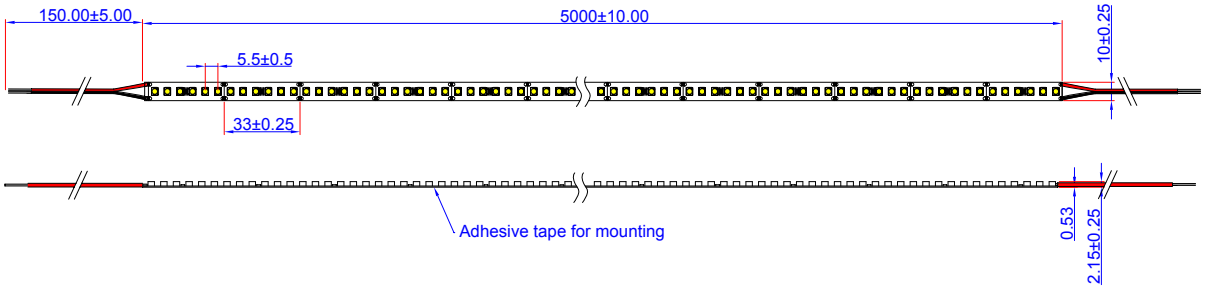
6LBR1xxNJ0000001 Series Dimensions (CV 24V)



6LBR1xxJE0J18001 Series Dimensions (CV 24V)

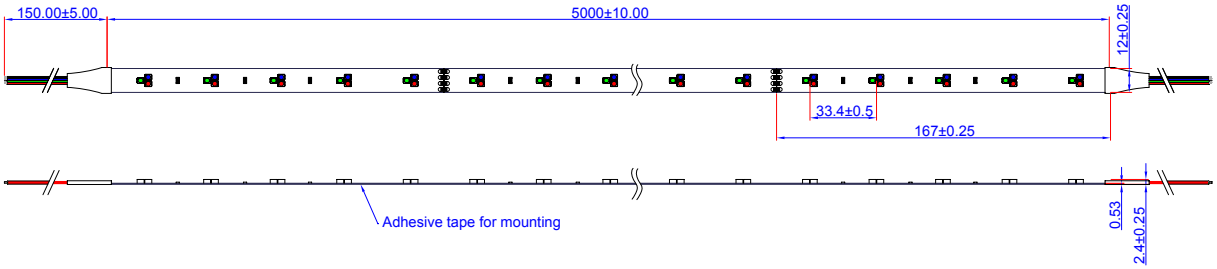


6LBR1xxJE0J24003 Series Dimensions (CV 24V)

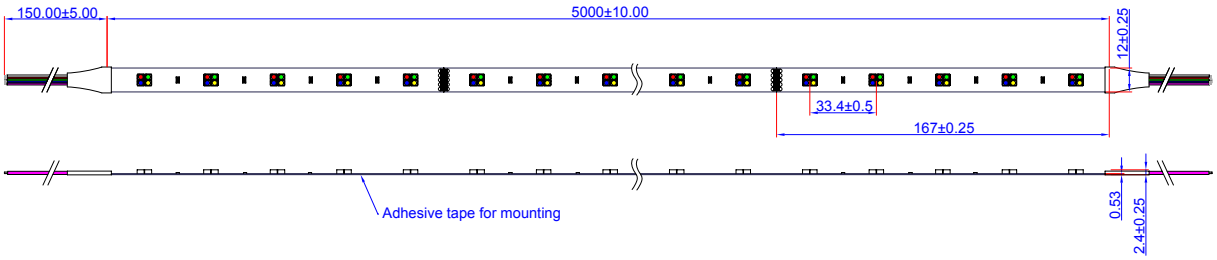


Notes:
1. All dimensions are in millimeters.
2. Tolerance is ±0.20 mm

6LBR1M1NJ0000002 Series Dimensions (RTB/ CV 24V)



6LBR1MxNJ000000x Series Dimensions (RTBx/ CV 24V)

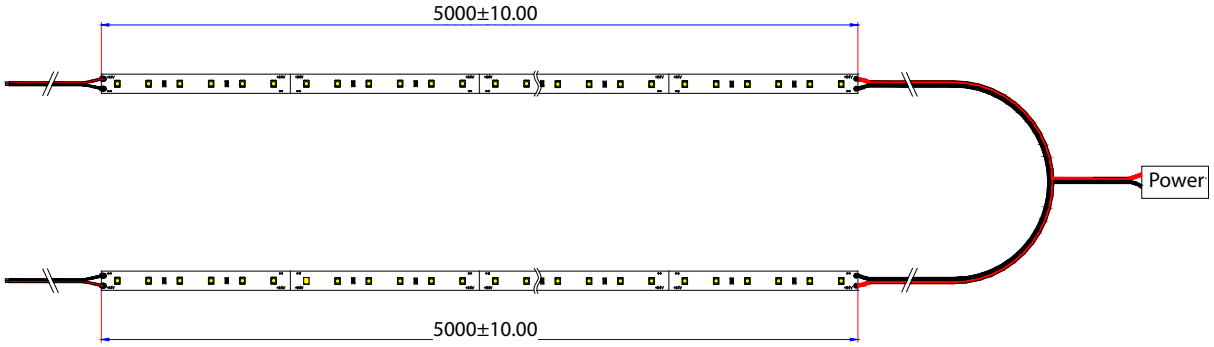


Notes:
1. All dimensions are in millimeters.
2. Tolerance is ±0.20 mm

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).



Characteristics

Parameter	Symbol	Value	Units
Viewing Angle	$2\Theta_{1/2}$	120	Degree
CCT / Wavelength	λd	CW : 5000-10000 NW : 3800-5000 WW : 2670-3800 R: 620-630 T: 520-535 B: 465-475 Pink: 1800-2400	K/nm

Notes:
1. Wavelength is measured with an accuracy of ± 1nm.
2. CCT is measured with an accuracy of ± 10%.
3. Viewing anlge is measured with an accuracy of ± 5%.

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Electric-Optical Characteristics (T_j=25°C)

6LBR1xxNI0000001 Series (CV 12V)

Order Code	Color	Input Voltage (CV)	Im (M)	Number of LEDs (M)	Power (W/M)	Forward Current (mA/M)	CRI
6LBR1CWNI0000001	Cool White	12	420	60	4.8	400	80
6LBR1NWNI0000001	Neutral White	12	390	60	4.8	400	80
6LBR1WWNI0000001	Warm White	12	360	60	4.8	400	80
6LBR1WWNI0000007	Warm White	12	260	60	4.8	400	90
6LBR1RXNI0000001	Red	12	96	60	4.8	400	-
6LBR1TXNI0000003	Green	12	216	60	4.8	400	-
6LBR1BXNI0000001	Blue	12	48	60	4.8	400	-
6LBR1PXNI0000001	Deep Pink	12	260	60	4.8	400	80
6LBR1PXNI0000002	Pink	12	260	60	4.8	400	80

6LBR1xxNJ000000x Series (CV 24V)

Order Code	Color	Input Voltage (CV)	Im (M)	Number of LEDs (M)	Power (W/M)	Forward Current (mA/M)	CRI
6LBR1CWNJ0000004	Cool White	24	420	60	4.8	200	80
6LBR1NWNJ0000005	Neutral White	24	390	60	4.8	200	80
6LBR1WWNJ0000006	Warm White	24	360	60	4.8	200	80
6LBR1WWNJ0000011	Warm White	24	260	60	4.8	200	90
6LBR1RXNJ0000002	Red	24	96	60	4.8	200	-
6LBR1TXNJ0000002	Green	24	216	60	4.8	200	-
6LBR1BXNJ0000002	Blue	24	48	60	4.8	200	-
6LBR1PXNJ0000003	Deep Pink	24	260	60	4.8	200	80
6LBR1PXNJ0000005	Pink	24	260	60	4.8	200	80
6LBR1CWNJ0000001	Cool White	24	840	120	9.6	400	80
6LBR1NWNJ0000001	Neutral White	24	780	120	9.6	400	80
6LBR1WWNJ0000001	Warm White	24	720	120	9.6	400	80
6LBR1WWNJ0000012	Warm White	24	530	120	9.6	400	90
6LBR1RXNJ0000001	Red	24	192	120	9.6	400	-
6LBR1TXNJ0000001	Green	24	432	120	9.6	400	-
6LBR1BXNJ0000001	Blue	24	96	120	9.6	400	-
6LBR1PXNJ0000002	Deep Pink	24	530	120	9.6	400	80
6LBR1PXNJ0000004	Pink	24	530	120	9.6	400	80

Note:
Forward Current is measured with an accuracy of ± 10%

6LBR1xWJE0Jxx00x Series (CV 24V)

Order Code	Color	Input Voltage (CV)	Im (M)	Number of LEDs (M)	Power (W/M)	Forward Current (mA/M)	CRI
6LBR1CWJE0J18001	Cool White	24	1150	180	14.4	600	90
6LBR1NWJE0J18001	Neutral White	24	1080	180	14.4	600	90
6LBR1WWJE0J18001	Warm White	24	900	180	14.4	600	90
6LBR1CWJE0J24003	Cool White	24	1500	240	19.2	800	90
6LBR1NWJE0J24003	Neutral White	24	1400	240	19.2	800	90
6LBR1WWJE0J24003	Warm White	24	1160	240	19.2	800	90

6LBR1MxNJ000000x Series (CV 24V)

Order Code	Color	Input Voltage (CV)	Im (M)	Number of LEDs (M)	Power (W/M)	Forward Current (mA/M)	CRI
6LBR1M1NJ0000002	Red	24	48	30	2.88	120	-
	Green	24	108	30	2.88	120	-
	Blue	24	24	30	2.88	120	-
6LBR1M2NJ0000002	Cool White	24	210	30	2.88	120	80
	Red	24	48	30	2.88	120	-
	Green	24	108	30	2.88	120	-
	Blue	24	24	30	2.88	120	-
6LBR1M7NJ0000001	Warm White	24	180	30	2.88	120	80
	Red	24	48	30	2.88	120	--
	Green	24	108	30	2.88	120	--
	Blue	24	24	30	2.88	120	--

Note:
Forward Current is measured with an accuracy of ± 10%

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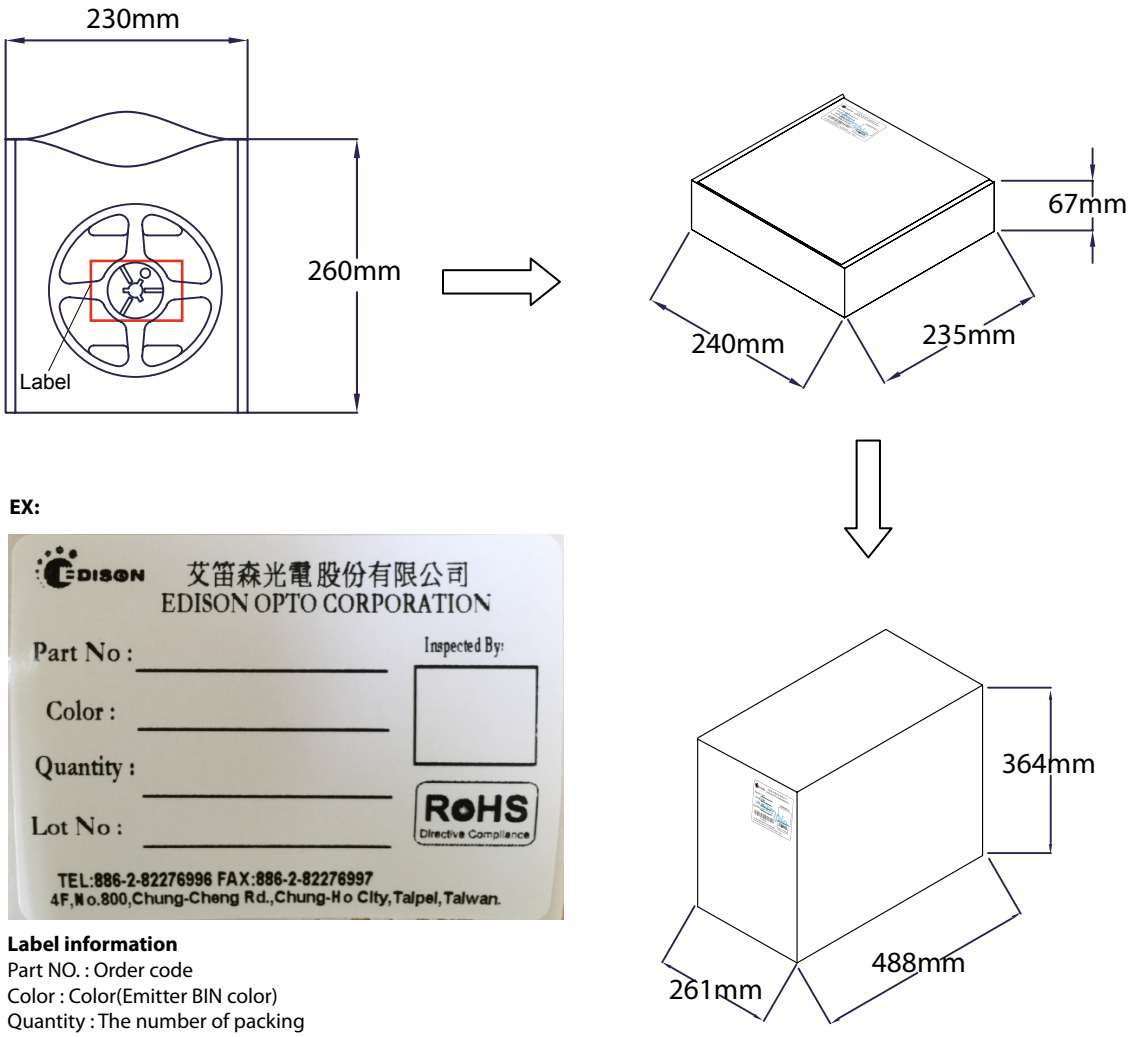
Product Packaging Information

PLCC Lightbar FPC Material Description

Package Type \ Part NO.	6LBR1xxNx000000x	6LBR1MxNJ000000x 6LBR1xWJE0Jxx00x	Dimension
Antistatic bag	1 Reel	1 Reel	260mm x 230mm
Inside box	5 Antistatic bags	4 Antistatic bags	240mm x 235mm x 67mm
Outside box	10 Inside boxes	10 Inside boxes	488mm x 364mm x 261mm



EX:

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.

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Revision History

Versions	Description	Release Date
1	Establish order code information	2013/06/20
2	1. Update the Emitting Color of order code format and CRI 2. Add the label information	2013/07/23
3	Add Pink order code (12V, 24V)	2013/11/29
4	Add Order Code	2014/12/25
5	1. Add characteristic 2. Add Ordering Code Format (New) 3. Add 6LBR1xWJE0Jxx001 Series information 4. Revise CRI Value from 70/75 to 80 5. Revise Mechanical Dimensions	2016/01/18

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

www.edison-opto.com

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