

PLCC Lightbar Hunter FPC Series Datasheet



Features :

- High Brightness SMD LED
- Low Power Requirement & Energy Efficient
- Low Power Requirement & Energy Efficient

Typical Applications :

- Auditorium Walkway Lighting
- Stairway Accent Lighting
- Cabinet Lighting



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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

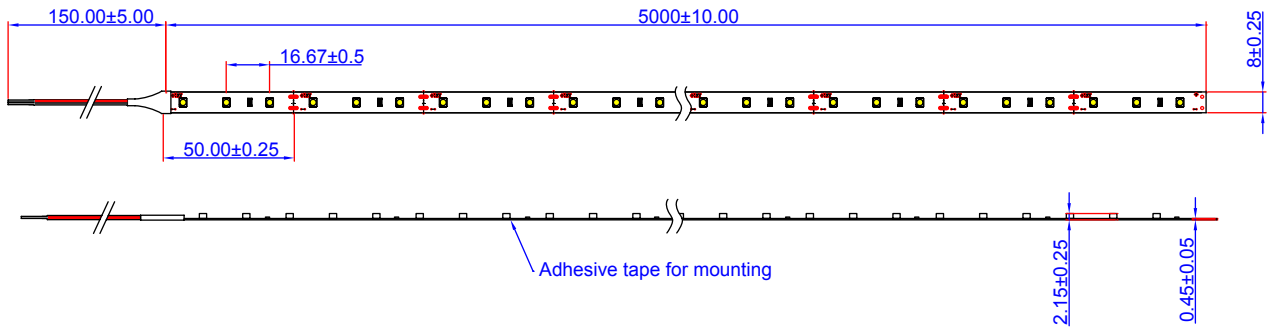
6
X1
L B x 1
X2
X X
X3
X
X4
X 0
X5
X
X6
X X X
X7
X X
X8

X1		X2		X3		X4		X5	
Item	Module	Series	FPC	IP	Color	Driver	CV	Max Length	
6	Module	LBR1	FPC IP20	CW	Cool White	J	CV 24V	E0	5M
		LBU1	FPC IP54	NW	Neutral White	I	CV 12V		
				WW	Warm White				
				RX	Red				
				TX	True Green				
				BX	Blue				
				AX	Amber				
				M1	RGB				

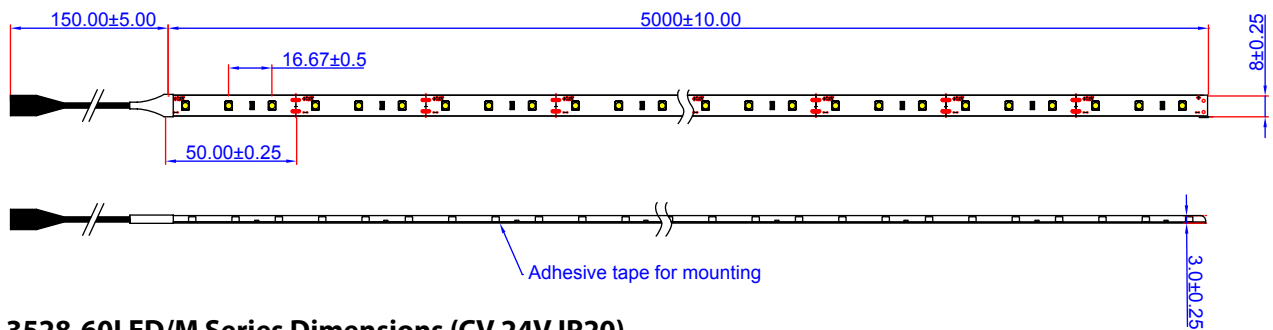
X6		X7		X8	
Emitter	Number of LEDs (M)	Number of LEDs (M)	Number of LEDs (M)	Serial No.	Serial No.
J	3528	030	30pcs	xx	--
M	5050	060	60pcs		
S	2835	120	120pcs		

Product Dimensions

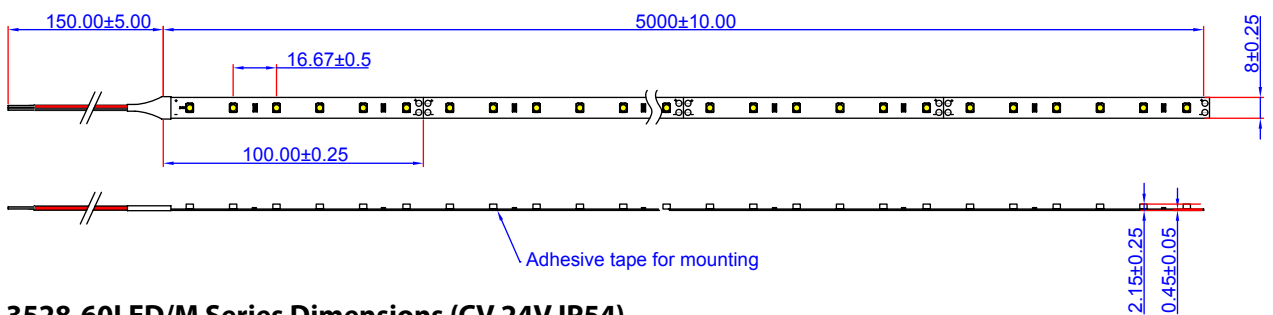
3528-60LED/M Series Dimensions (CV 12V IP20)



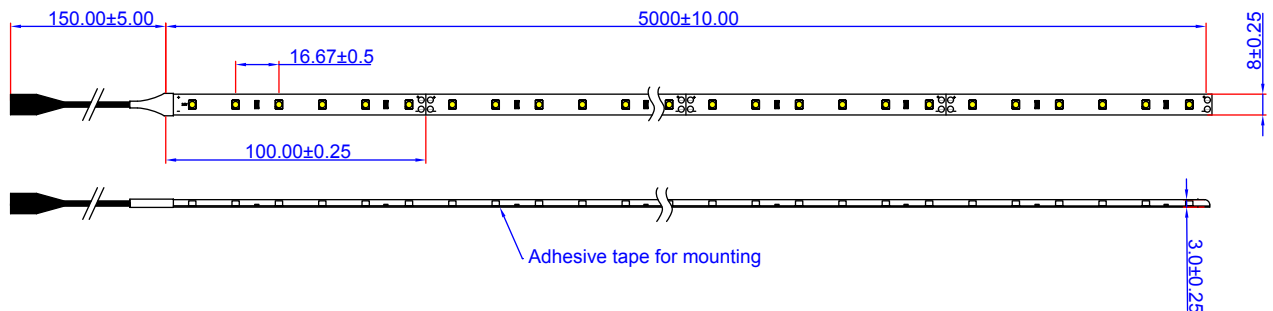
3528-60LED/M Series Dimensions (CV 12V IP54)



3528-60LED/M Series Dimensions (CV 24V IP20)



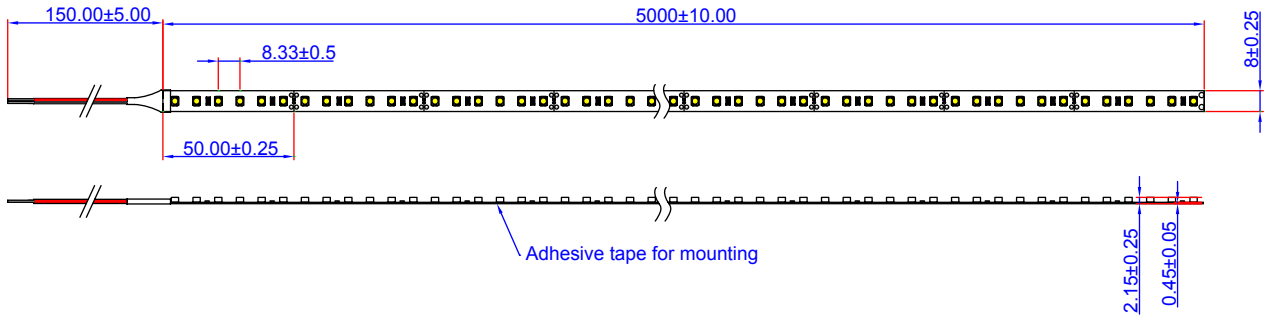
3528-60LED/M Series Dimensions (CV 24V IP54)



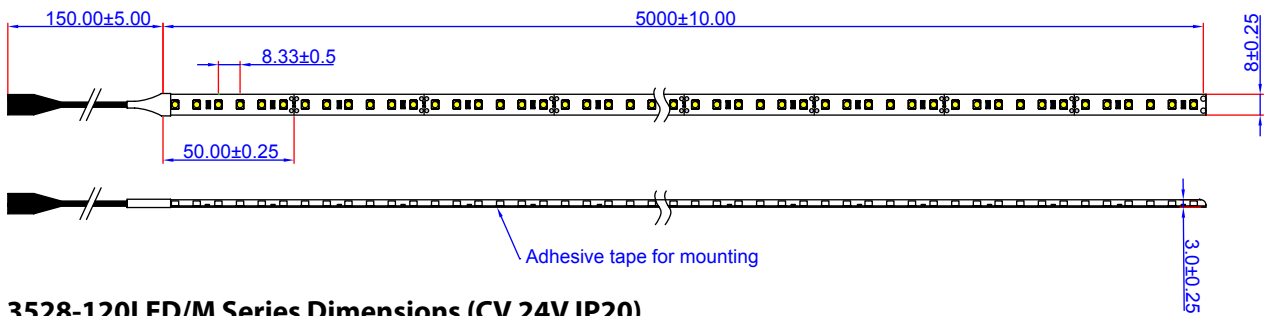
Note:

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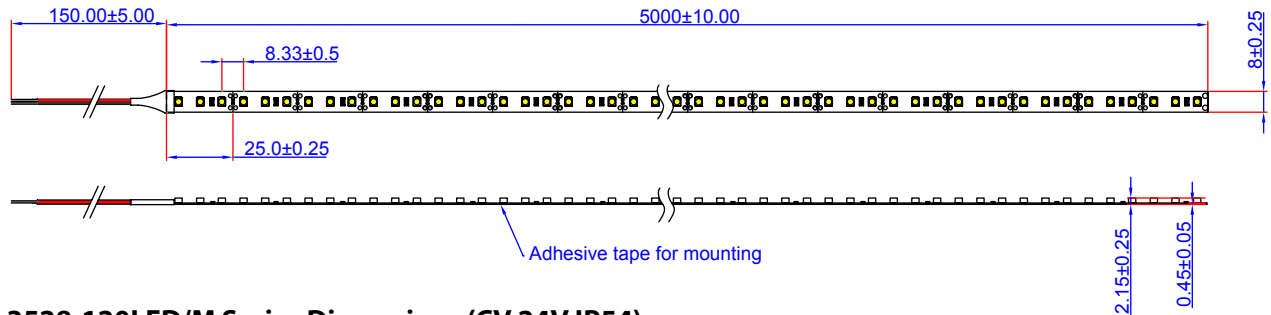
3528-120LED/M Series Dimensions (CV 12V IP20)



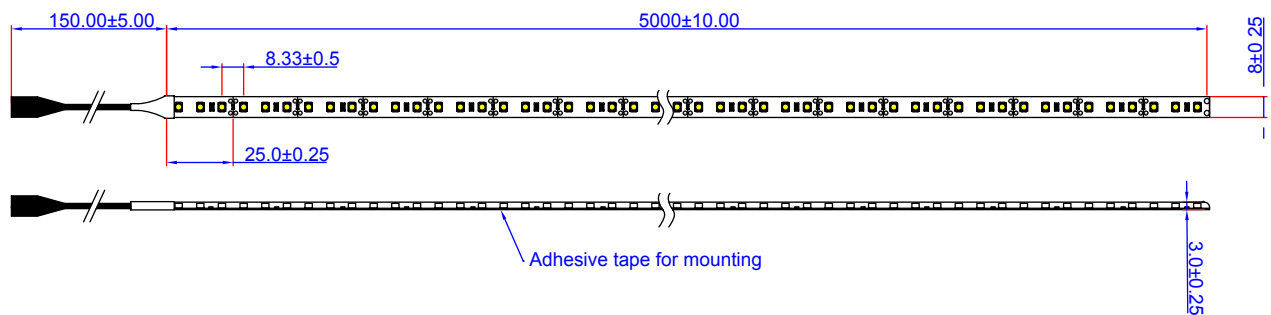
3528-120LED/M Series Dimensions (CV 12V IP54)



3528-120LED/M Series Dimensions (CV 24V IP20)

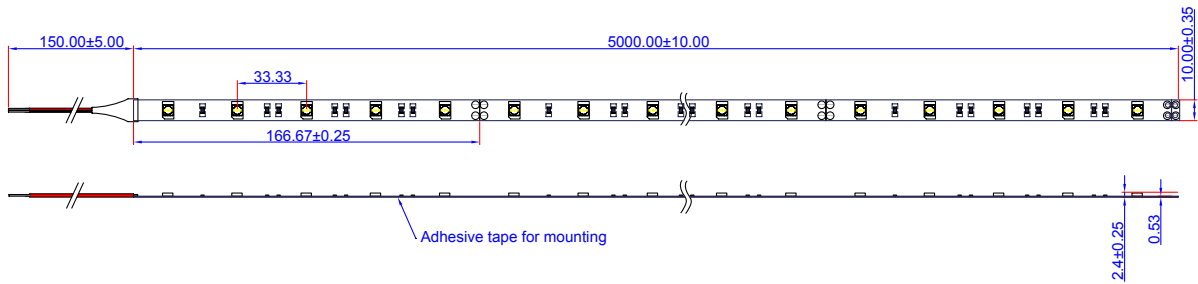


3528-120LED/M Series Dimensions (CV 24V IP54)

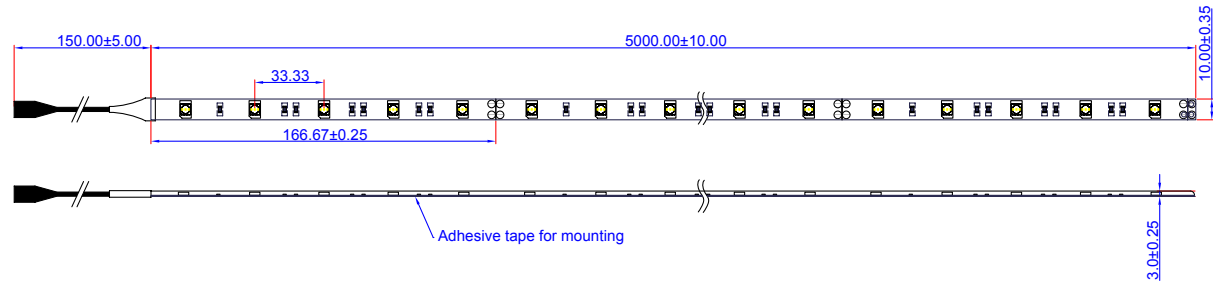


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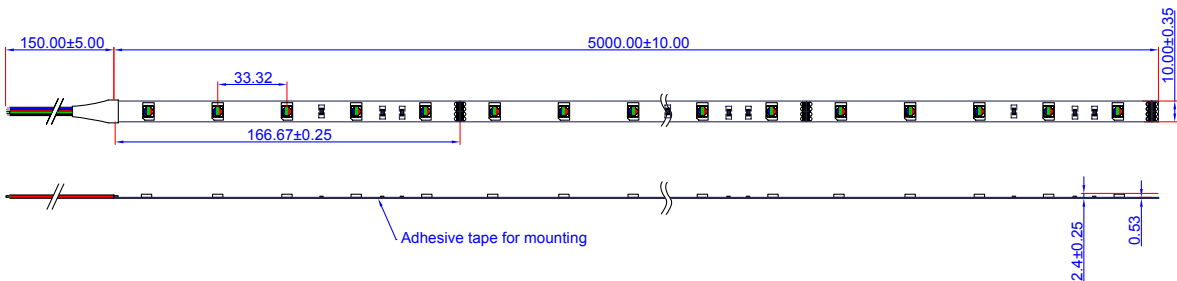
5050-30LED/M Series Dimensions (CV 12V IP20)



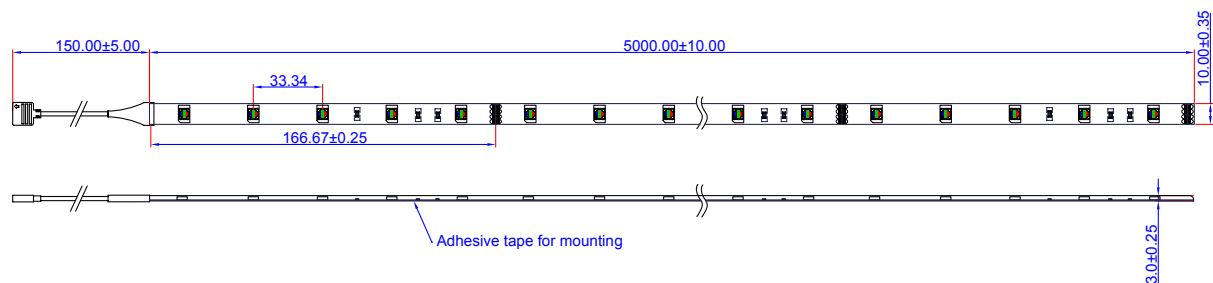
5050-30LED/M Series Dimensions (CV 12V IP54)



5050-30LED/M RGB Series Dimensions (CV 12V IP20)

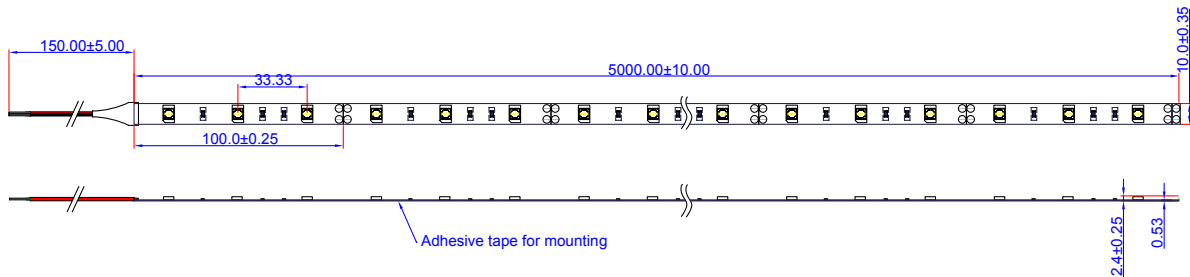


5050-30LED/M RGB Series Dimensions (CV 12V IP54)

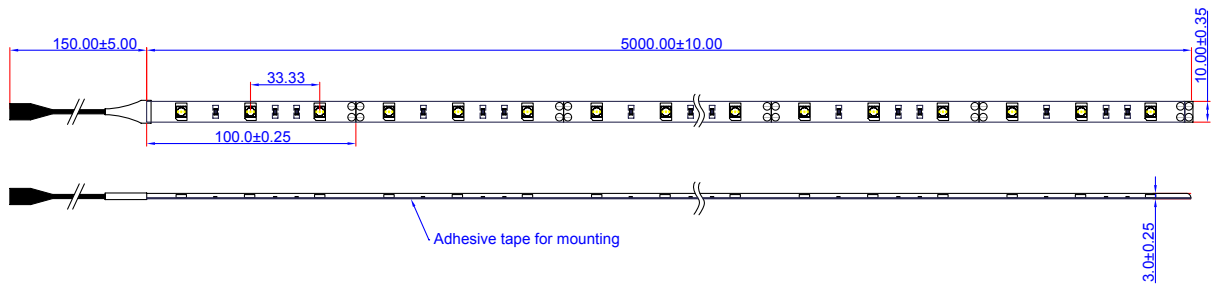


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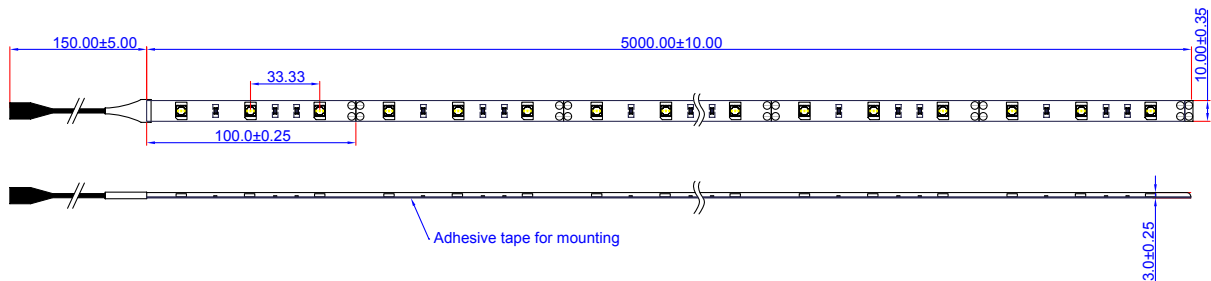
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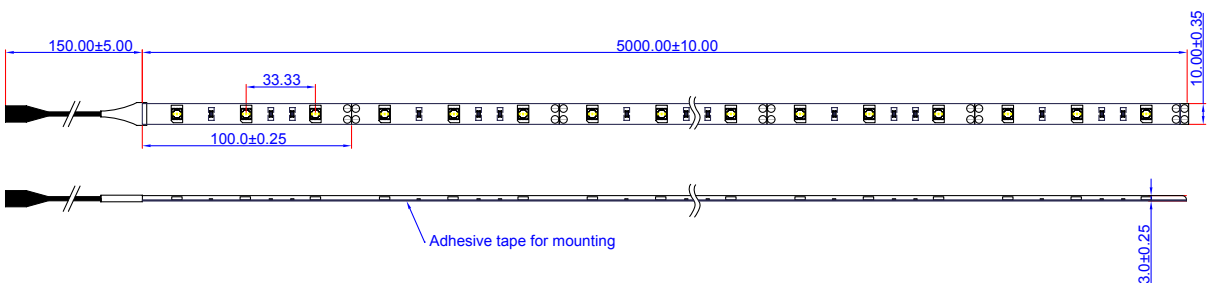
5050-30LED/M Series Dimensions (CV 24V IP54)



5050-30LED/M RGB Series Dimensions (CV 24V IP20)

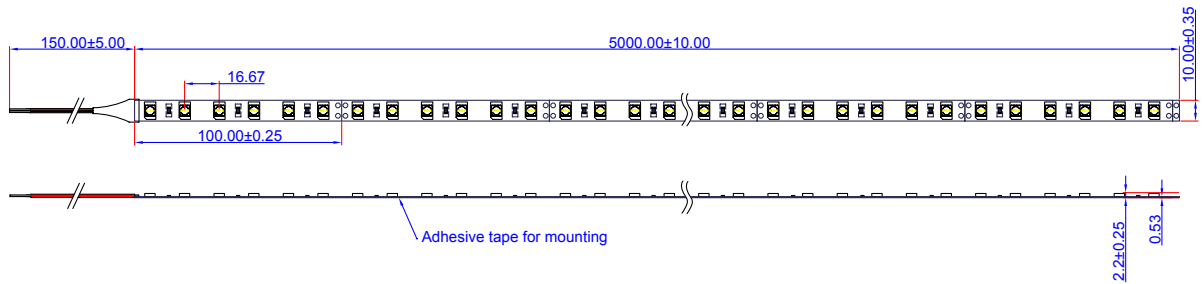


5050-30LED/M RGB Series Dimensions (CV 24V IP54)

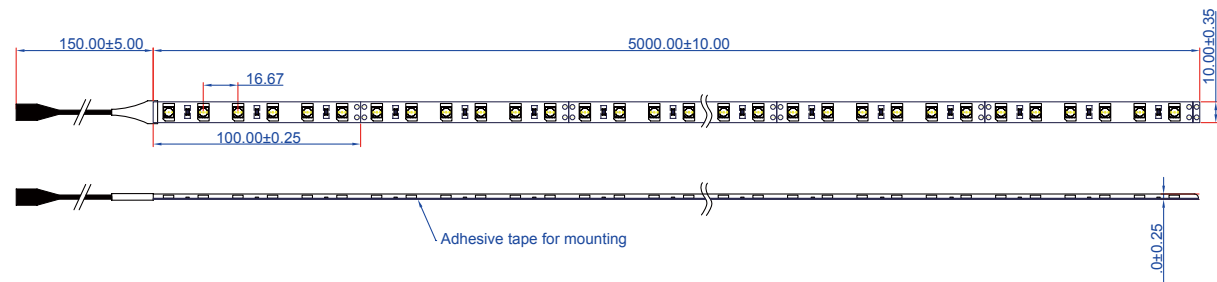


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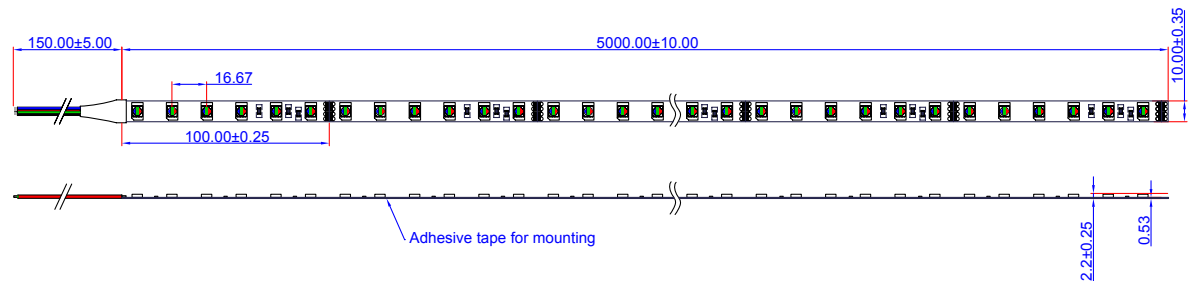
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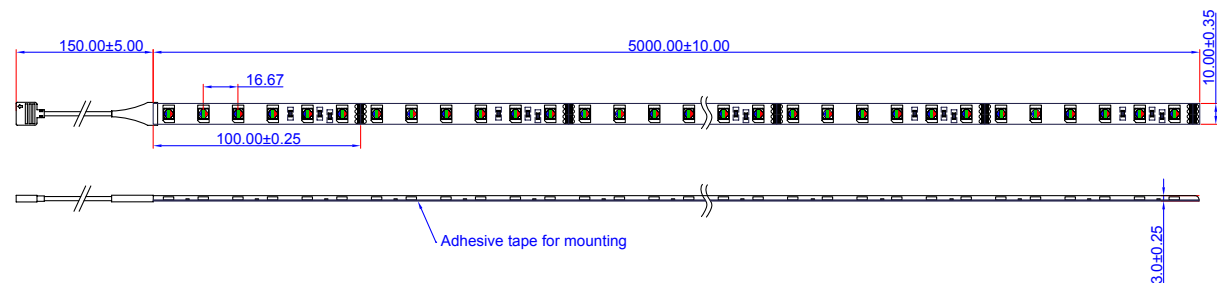
5050-60LED/M Series Dimensions (CV 12V IP54)



5050-60LED/M RGB Series Dimensions (CV 12V IP20)

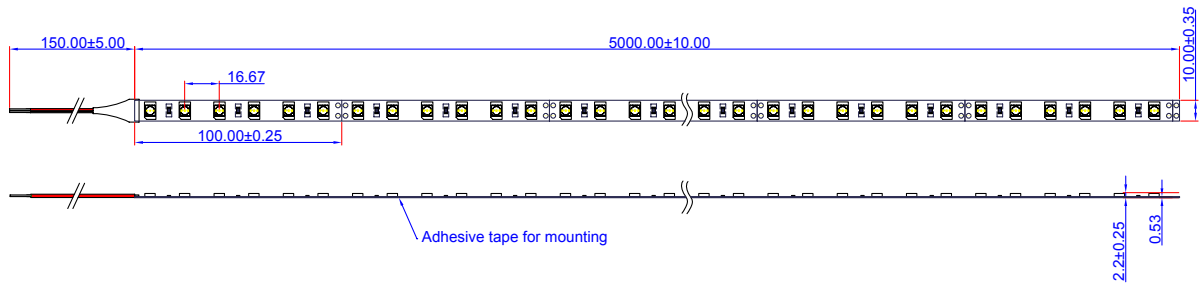


5050-60LED/M RGB Series Dimensions (CV 12V IP54)

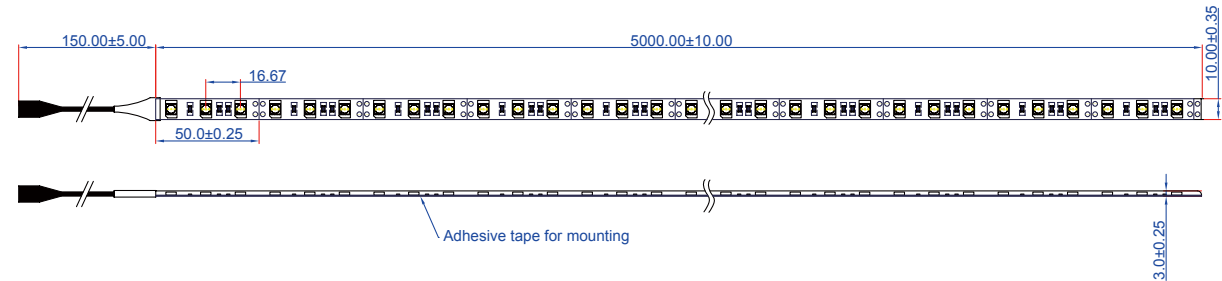


Note:
All dimensions are in millimeters.

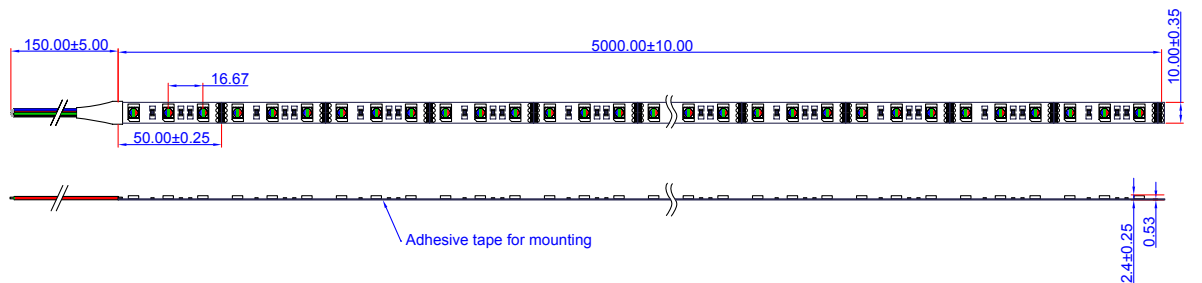
5050-60LED/M Series Dimensions (CV 24V IP20)



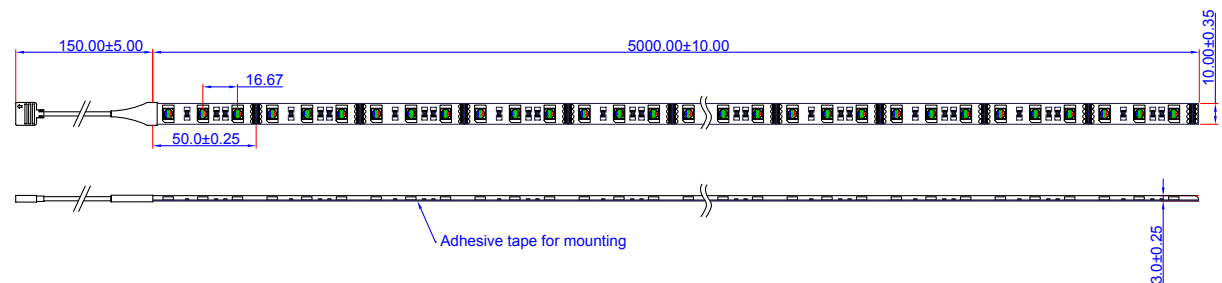
5050-60LED/M Series Dimensions (CV 24V IP54)



5050-60LED/M RGB Series Dimensions (CV 24V IP20)

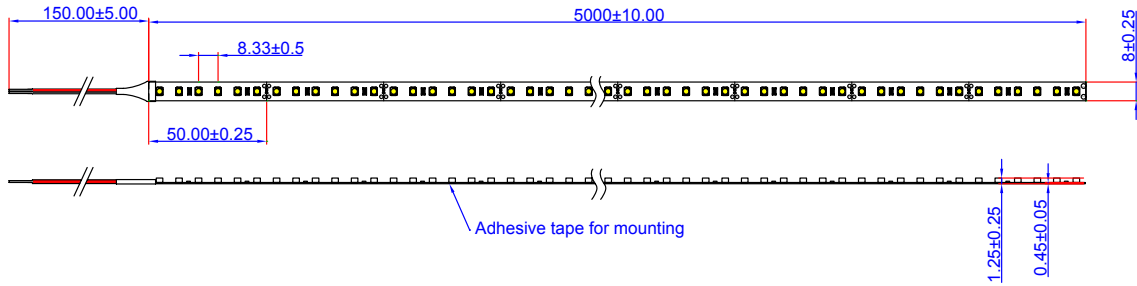


5050-60LED/M RGB Series Dimensions (CV 24V IP54)

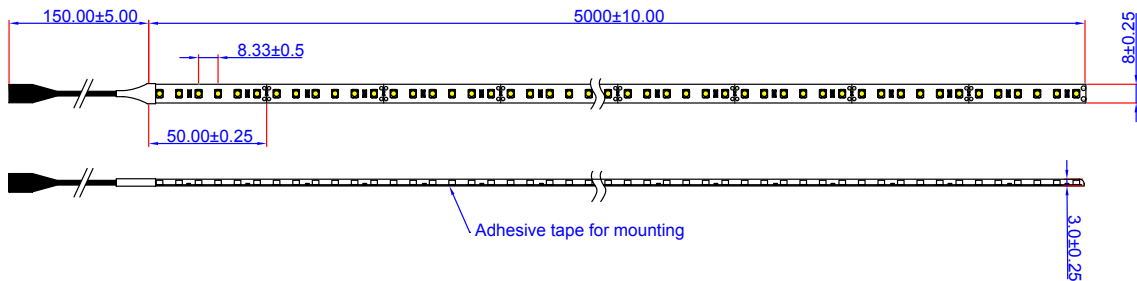


Note:
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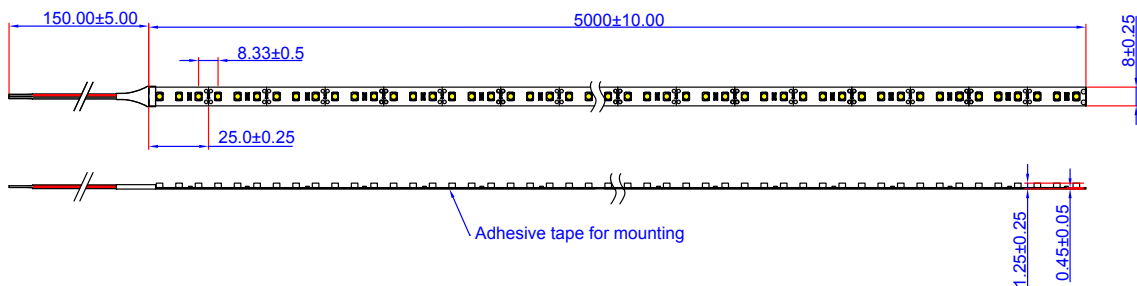
2835-120LED/M Series Dimensions (CV 12V IP20)



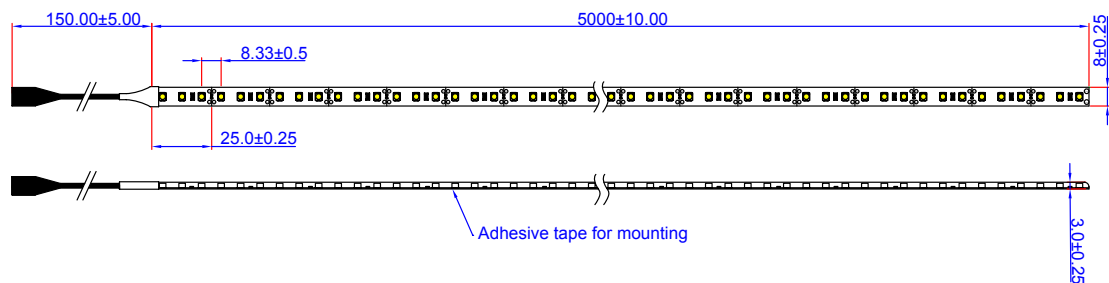
2835-120LED/M Series Dimensions (CV 12V IP54)



2835-120LED/M Series Dimensions (CV 24V IP20)



2835-120LED/M Series Dimensions (CV 24V IP54)



Note:
All dimensions are in millimeters.

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)

3528 60LED/M

Order Code	Color	Number of LEDs (M)	IP	lm (M)	Power (W/M)	Input Voltage (V)	CCT	CRI		
6LBR1CWIE0J06001	Cool white	60	IP20	240lm	4-4.8W	12	5800-6300	70		
6LBR1WWIE0J06001	White warm			210lm			2800-3200	70		
6LBR1BXIE0J06001	blue			32lm			-	-		
6LBR1TXIE0J06001	green			130lm			-	-		
6LBR1YXIE0J06001	yellow			32lm			-	-		
6LBR1RXIE0J06001	red			36lm			-	-		
6LBR1CWJE0J06009	Cool white		60	IP20		240lm	4-4.8W	24	5800-6300	70
6LBR1WWJE0J06009	White warm					210lm			2800-3200	70
6LBR1BXJE0J06009	blue					32lm			-	-
6LBR1TXJE0J06009	green					130lm			-	-
6LBR1YXJE0J06009	yellow					32lm			-	-
6LBR1RXJE0J06009	red					36lm			-	-
6LBU1CWIE0J06001	Cool white	60		IP54	204lm	4-4.8W		12	5500-6500	70
6LBU1WWIE0J06001	White warm				180m				3300-3700	70
6LBU1BXIE0J06001	blue				27lm				-	-
6LBU1TXIE0J06001	green				110lm				-	-
6LBU1YXIE0J06001	yellow				27lm				-	-
6LBU1RXIE0J06001	red				30lm				-	-
6LBU1CWJE0J06002	Cool white		60	IP54	204lm		4-4.8W	24	5500-6500	70
6LBU1WWJE0J06002	White warm				180m				3300-3700	70
6LBU1BXJE0J06002	blue				27lm				-	-
6LBU1TXJE0J06002	green				110lm				-	-
6LBU1YXJE0J06002	yellow				27lm				-	-
6LBU1RXJE0J06002	red				30lm				-	-

3528 120LED/M

Order Code	Color	Number of LEDs (M)	IP	lm (M)	Power (W/M)	Input Voltage (V)	CCT	CRI
6LBR1CWIE0J12001	Cool white	120	IP20	450lm	8-10W	12	5800-6300	70
6LBR1WWIE0J12001	White warm			420lm	8-10W		2800-3200	70
6LBR1BXIE0J12001	blue			70lm	8-10W		-	-
6LBR1TXIE0J12001	green			260lm	8-9.6W		-	-
6LBR1YXIE0J12001	yellow			72lm	8-9.6W		-	-
6LBR1RXIE0J12001	red			72lm	8-9.6W		-	-
6LBR1CWJE0J12004	Cool white		IP20	450lm	8-10W	24	5800-6300	70
6LBR1WWJE0J12004	White warm			420lm	8-10W		2800-3200	70
6LBR1BXJE0J12004	blue			70lm	8-10W		-	-
6LBR1TXJE0J12004	green			260lm	8-9.6W		-	-
6LBR1YXJE0J12004	yellow			72lm	8-9.6W		-	-
6LBR1RXJE0J12004	red			72lm	8-9.6W		-	-
6LBU1CWIE0J12001	Cool white	120	IP54	380lm	8-10W	12	5500-6500	70
6LBU1WWIE0J12001	White warm			360lm	8-10W		3300-3700	70
6LBU1BXIE0J12001	blue			60lm	8-10W		-	-
6LBU1TXIE0J12001	green			220lm	8-9.6W		-	-
6LBU1YXIE0J12001	yellow			62lm	8-9.6W		-	-
6LBU1RXIE0J12001	red			62lm	8-9.6W		-	-
6LBU1CWJE0J12002	Cool white		IP54	380lm	8-10W	24	5500-6500	70
6LBU1WWJE0J12002	White warm			360lm	8-10W		3300-3700	70
6LBU1BXJE0J12002	blue			60lm	8-10W		-	-
6LBU1TXJE0J12002	green			220lm	8-9.6W		-	-
6LBU1YXJE0J12002	yellow			62lm	8-9.6W		-	-
6LBU1RXJE0J12002	red			62lm	8-9.6W		-	-

5050 30LED/M

Order Code	Color	Number of LEDs (M)	IP	lm (M)	Power (W/M)	Input Voltage (V)	CCT	CRI	
6LBR1CWIE0M03001	Cool white	30	IP20	360lm	7-7.8W	12	5800-6300	70	
6LBR1WWIE0M03001	White warm			305lm	7-7.8W		2800-3200	70	
6LBR1BXIE0M03001	blue			32lm	7-7.8W				
6LBR1TXIE0M03001	green			195lm	6-7.2W				
6LBR1YXIE0M03001	yellow			40lm	6-7.2W				
6LBR1RXIE0M03001	red			40lm	6-7.2W				
6LBR1M1IE0M03001	RGB			95lm	6-7.2W				
6LBR1CWJE0M03003	Cool white			360lm	7-7.8W		24	5800-6300	70
6LBR1WWJE0M03003	White warm		305lm	7-7.8W	2800-3200	70			
6LBR1BXJE0M03003	blue		32lm	7-7.8W					
6LBR1TXJE0M03003	green		195lm	6-7.2W					
6LBR1YXJE0M03003	yellow		40lm	6-7.2W					
6LBR1RXJE0M03003	red		40lm	6-7.2W					
6LBR1M1JE0M03003	RGB		95lm	6-7.2W					
6LBU1CWIE0M03001	Cool white		30	IP54	310lm	7-7.8W		12	5500-6500
6LBU1WWIE0M03001	White warm				260lm	7-7.8W	3300-3700		70
6LBU1BXIE0M03001	blue	27lm			7-7.8W				
6LBU1TXIE0M03001	green	165lm			6-7.2W				
6LBU1YXIE0M03001	yellow	34lm			6-7.2W				
6LBU1RXIE0M03001	red	34lm			6-7.2W				
6LBU1M1IE0M03001	RGB	80lm			6-7.2W				
6LBU1CWJE0M03001	Cool white	310lm			7-7.8W	24	5500-6500		70
6LBU1WWJE0M03001	White warm	260lm		7-7.8W	3300-3700		70		
6LBU1BXJE0M03001	blue	27lm		7-7.8W					
6LBU1TXJE0M03001	green	165lm		6-7.2W					
6LBU1YXJE0M03001	yellow	34lm		6-7.2W					
6LBU1RXJE0M03001	red	34lm		6-7.2W					
6LBU1M1JE0M03001	RGB	80lm		6-7.2W					

5050 60LED/M

Order Code	Color	Number of LEDs (M)	IP	lm (M)	Power (W/M)	Input Voltage (V)	CCT	CRI	
6LBR1CWIE0M06002	Cool white	60	IP20	740lm	12-14W	12	5800-6300	70	
6LBR1WWIE0M06002	White warm			680lm	12-14W		2800-3200	70	
6LBR1BXIE0M06002	blue			70lm	12-14W				
6LBR1TXIE0M06002	green			360lm	12-14W				
6LBR1YXIE0M06002	yellow			85lm	12-14W				
6LBR1RXIE0M06002	red			85lm	12-14W				
6LBR1M1IE0M06002	RGB			170lm	12-14W				
6LBR1CWJE0M06004	Cool white		60	IP20	740lm	12-14W	24	5800-6300	70
6LBR1WWJE0M06004	White warm				680lm	12-14W		2800-3200	70
6LBR1BXJE0M06004	blue				70lm	12-14W			
6LBR1TXJE0M06004	green				360lm	12-14W			
6LBR1YXJE0M06004	yellow				85lm	12-14W			
6LBR1RXJE0M06004	red				85lm	12-14W			
6LBR1M1JE0M06004	RGB				170lm	12-14W			
6LBU1CWIE0M06001	Cool white	60		IP54	630lm	12-14W	12	5500-6500	70
6LBU1WWIE0M06001	White warm				580lm	12-14W		3300-3700	70
6LBU1BXIE0M06001	blue				60lm	12-14W			
6LBU1TXIE0M06001	green				310lm	12-14W			
6LBU1YXIE0M06001	yellow				72lm	12-14W			
6LBU1RXIE0M06001	red				72lm	12-14W			
6LBU1M1IE0M06001	RGB				145lm	12-14W			
6LBU1CWJE0M06002	Cool white		60	IP54	630lm	12-14W	24	5500-6500	70
6LBU1WWJE0M06002	White warm				580lm	12-14W		3300-3700	70
6LBU1BXJE0M06002	blue				60lm	12-14W			
6LBU1TXJE0M06002	green				310lm	12-14W			
6LBU1YXJE0M06002	yellow				72lm	12-14W			
6LBU1RXJE0M06002	red				72lm	12-14W			
6LBU1M1JE0M06002	RGB				145lm	12-14W			

2835 120LED/M

Order Code	Color	Number of LEDs (M)	IP	lm (M)	Power (W/M)	Input Voltage (V)	CCT	CRI
6LBR1CWIE0S12002	Cool white	120	IP20	500lm	12W	12	5800-6300	70
6LBR1WWIE0S12002	White warm			480lm	12W		2800-3200	70
6LBR1CWJE0S12002	Cool white			500lm	12W	24	5800-6300	70
6LBR1WWJE0S12002	White warm			480lm	12W		2800-3200	70
6LBU1CWIE0S12001	Cool white		IP54	425lm	12W	12	5500-6500	70
6LBU1WWIE0S12001	Cool white			400lm	12W		3300-3700	70
6LBU1CWJE0S12001	Cool white			425lm	12W	24	5500-6500	70
6LBU1WWJE0S12001	White warm			400lm	12W		3300-3700	70

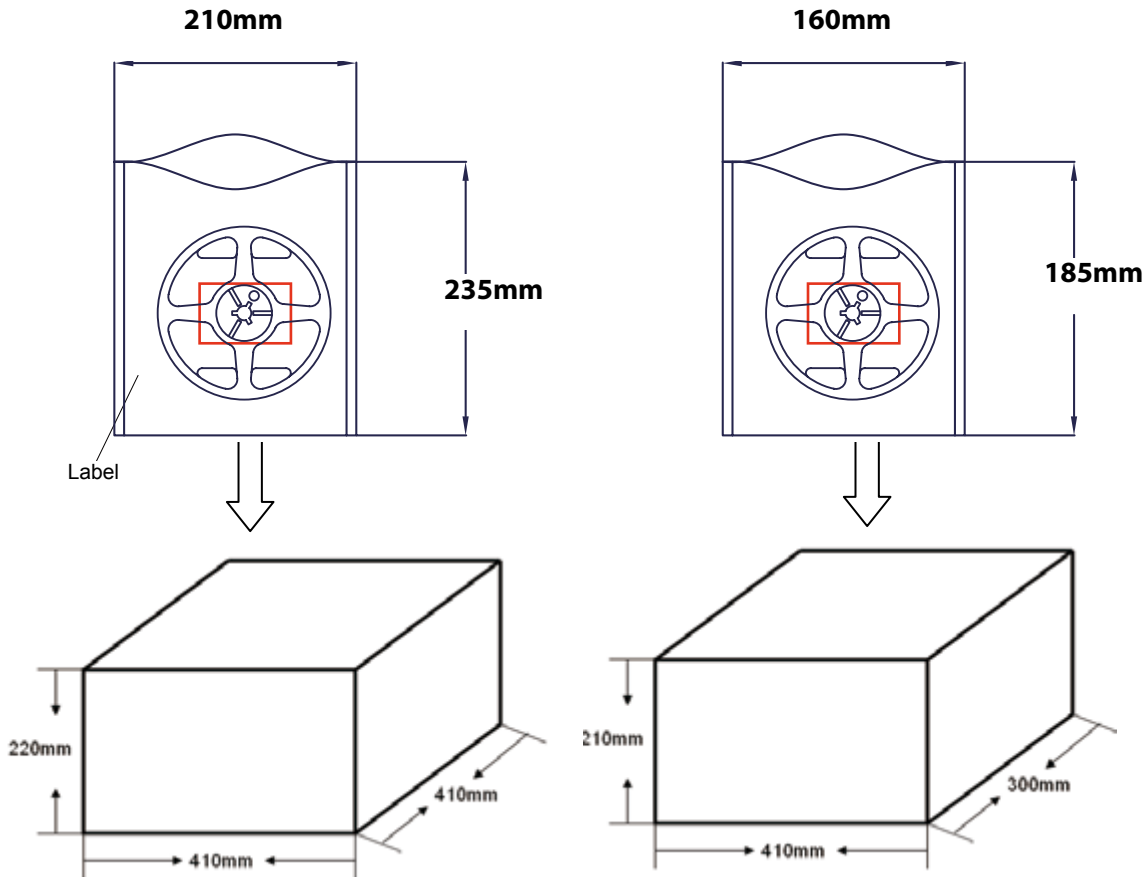
Notes:

1. CCT/Wavelength is measured with an accuracy of $\pm 10\%$
2. Forward Current is measured with an accuracy of $\pm 10\%$

Product Packaging Information

PLCC Lightbar FPC Material Description

Package Type	Part NO.	IP20	IP54
Antistatic bag		1 Reel	1 Reel
Outside box		100Reel	50Reel
Dimension		410mm*410mm*220mm	410mm*300mm*210mm



EX:

 艾笛森光電股份有限公司 EDISON OPTO CORPORATION	
Part No. : _____	Inspected by: _____
Color : _____	
Quantity : _____	
Lot No. : _____	
 A41000005 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	2016/05/05

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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LED.Detective@edison-opto.com.tw