



LED BACK LIGHT

MODEL NO: BLB-11182F-W

Device Number: DEA-855-001 REV: 1.2

ECN: _____ Page: 1/6

■ Features:

- Long Life and Low Power Consumption than CCFL
- Free selection of color chromaticity with four white type
- Free Design

■ Descriptions:

The white LED light source which was fabricated using a blue LED and a phosphor, and the phosphor is excited by blue light and emits yellow fluorescence. The mixture of blue light and yellow light results in a white light emission.

■ Applications:

- Backlighting for LCD
- Illumination source for instrumental panel
- Other types of displays, decorating lights

OFFICE: NO.25, LANE 76, SEC. 3, CHUNG YANG
ROAD, TU-CHENG, TAIPEI, TAIWAN, R.O.C.

TEL: 886-2-2267-2000

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<http://www.everlight.com>



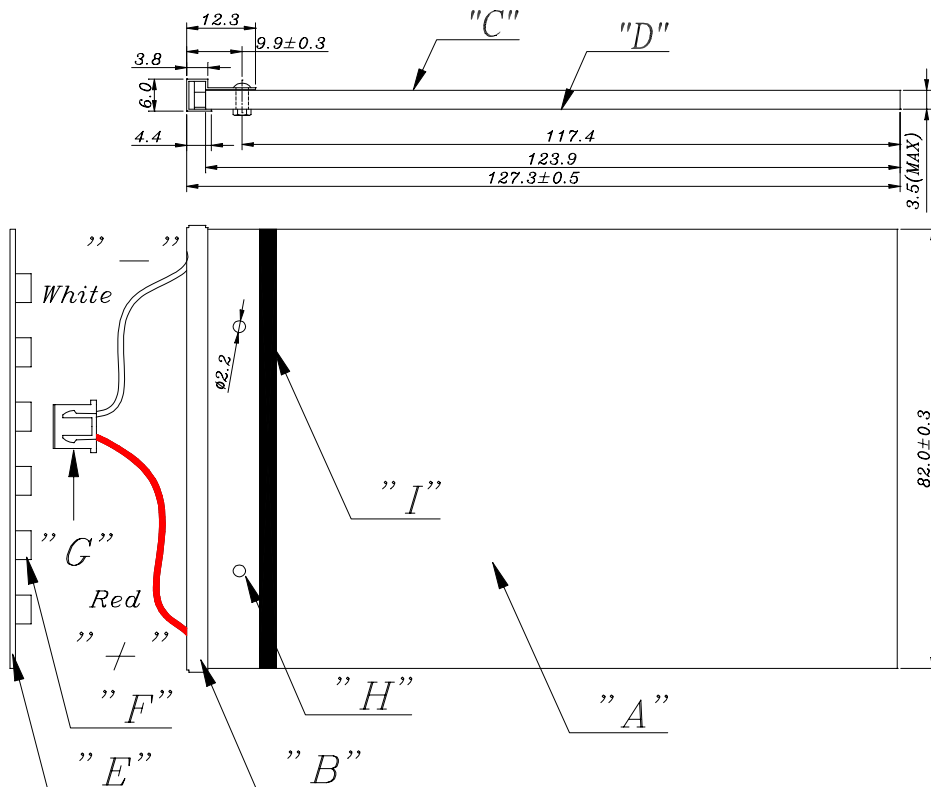
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ECN: _____ Page:2/6

■ Package Dimensions:



NO.	PART	MATERIAL
A	Light Guide	Acrylic
B	Holder	Aluminium
C	Diffusive Film	PE
D	Reflective Film	PE
E	PCB	FR4
F	LED	67-21UWC
G	Connector	UL 1571 26AWG
H	Screw and Screwcap	Steel
I	Black Tape	PE

1.All dimensions are in millimeters.

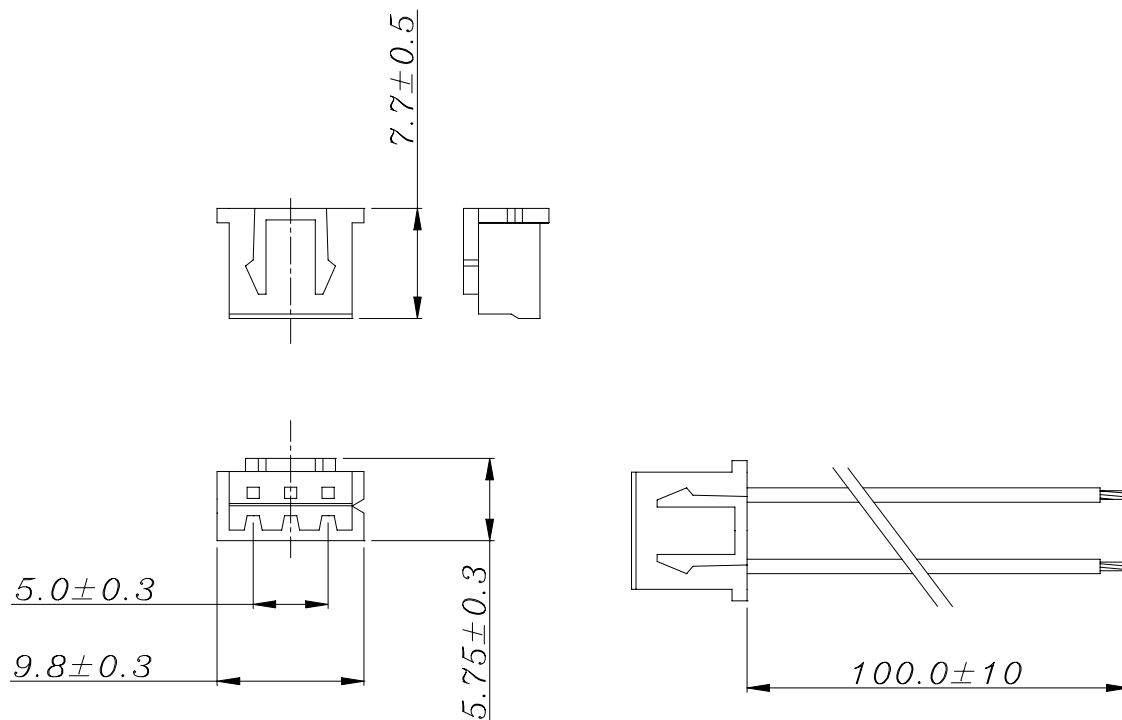


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ECN: _____ Page: 3/6

■ **Connector And Dimensions:**



1. All dimensions are in millimeters.



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Parameter	Symbol	Rating	Unit
Forward Current	I_F	150	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	0.8	W
Operating Temperature	T_{opr}	- 20 to +70	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	- 40 to +80	$^{\circ}\text{C}$
Soldering Temperature * ¹	T_{sol}	260	$^{\circ}\text{C}$

*1:Soldering time ≤ 5 seconds.■ Electro-Optical Characteristics ($T_a=25^{\circ}\text{C}$):

Parameter	Symbol	Condition	Min	Typ	Max	Unit	Remark
Forward Voltage	V_F	$I_F=120\text{mA}$	--	3.5	4	V	*1
Reverse Current	I_R	$V_R=5\text{V}$	--	--	10	μA	
Luminous Intensity	I_V	$I_F=120\text{mA}$	--	70	--	cd/m^2	
Illuminance Power Deviation		$I_F=120\text{mA}$	--	--	35	%	*3
Chromaticity	x	$I_F=120\text{mA}$	--	0.28	--		*2,*3
Coordinates	y		--	0.29	--		

*1.The LED is sensitive to static electricity and care must be fully taken when handling products.

Electrostatic Discharge Threshold (200V).

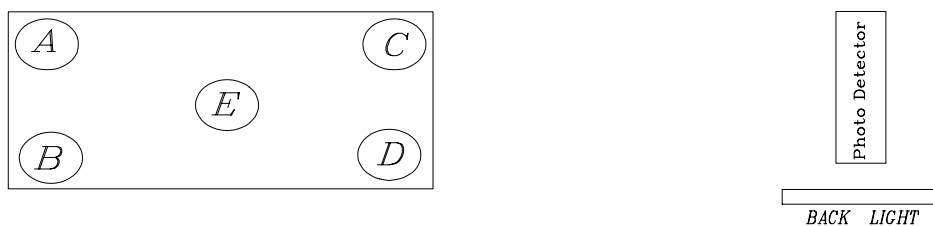
*2.The chromaticity coordinates tolerance is ± 0.03 unless otherwise noted.*3.The test position and method below:($T_a=25^{\circ}\text{C}$, 65%RH)

Figure 1 :Point for testing deviation→A,B,C,D,E

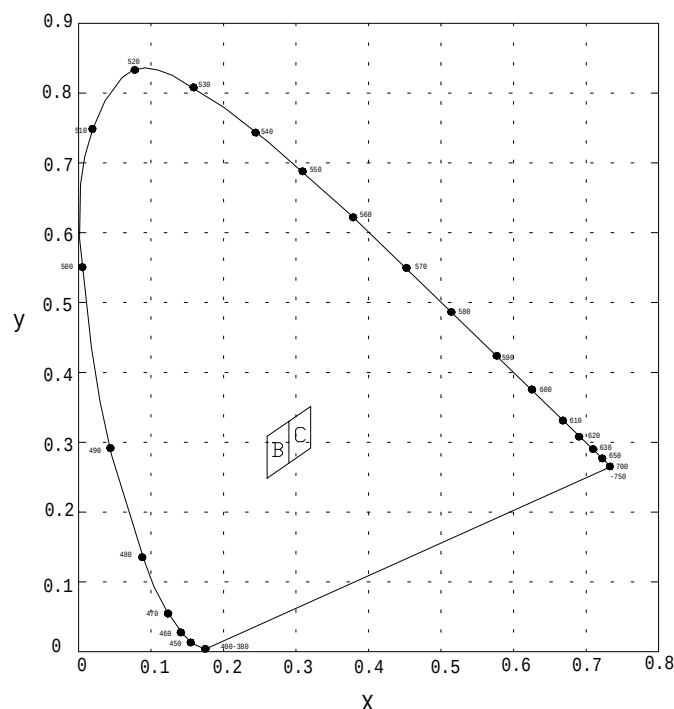


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ECN: _____ Page: 5/6

■ CIE Chromaticity Diagram:



* The C.I.E. 1931 chromaticity diagram

■ Chromaticity Coordinates Specifications:

Rank			Chromaticity Coordinates			
B	B1	x	0.260	0.260	0.275	0.275
		y	0.250	0.310	0.320	0.260
	B2	x	0.275	0.275	0.290	0.290
		y	0.260	0.320	0.330	0.270
C	C1	x	0.290	0.290	0.305	0.305
		y	0.270	0.330	0.340	0.280
	C2	x	0.305	0.305	0.320	0.320
		y	0.280	0.340	0.350	0.290
Tolerance			±0.03			



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ECN: Page:6/6

■Reliability Test:

Item	Conditions	Jusification Criteria	Quantity
High Temperature/ High Humidity Storage	70℃,85%RH,1000hr	A,B,C	3pcs
High Temperature Storage	80℃,1000hr	A,B,C	3pcs
Low Temperature Storage	-40℃,1000hr	A,B,C	3pcs
Room Temperature DC Operating Life	25℃,60±10%RH, 1000hr/120mA	A,B,C	3pcs

* Justification criteria:

A: Not one of LED is failed.

B: Not allowed to have scraping, discoloration,distortion.

C: The variation of brightness must not to be over 30% of initial value luminous intensity.

■Circuit Diagram:

