



EVERLIGHT ELECTRONICS CO.,LTD.

DATA SHEET

MODEL NO : BLB-12767F-W

DATE : 2000/06/07

DEPARTMENT : R&D CENTER

REVISION : 1.0

RECEIVED			
☒ MASS PRODUCTION			
☐ PRELIMINARY			
☐ CUSTOMER DESIGN			
DEVICE NUMBER : DEA-869-001			
PAGE :6			
CUSTOMER	DESIGNER	CHECKER	APPROVER

REV	DESCRIPTION	RELEASE DATE

OFFICE : NO 25,Lane 76,Chung Yang Rd,Sec.3 Tucheng, Taipei 236, Taiwan, R.O.C.

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<http://www.everlight.com>



LED BACK LIGHT MODEL NO:BLB-12767F-W

Device Number:DEA-869-001 REV:1.0

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■ 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

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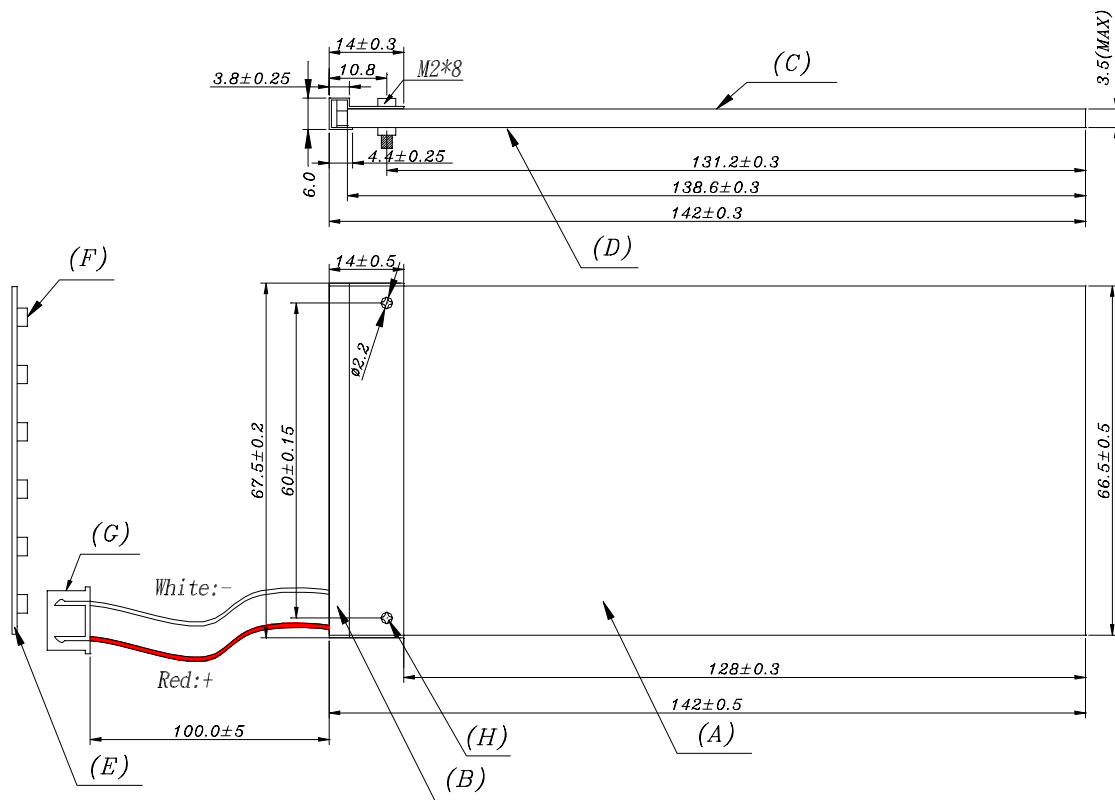


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■ Package Dimensions:



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

1. All dimensions are in millimeters.

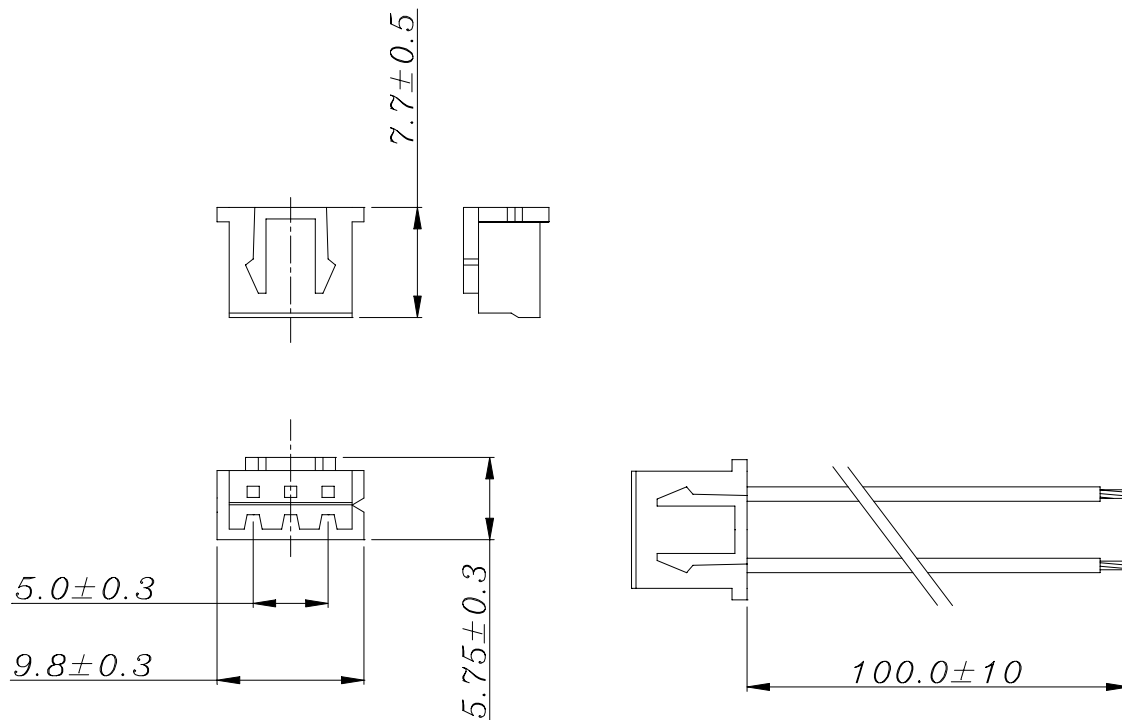


LED BACK LIGHT
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■ **Connector And Dimensions:**



1. All dimensions are in millimeters.

**LED BACK LIGHT**
MODEL NO: BLB-12767F-WDevice Number: DEA-869-001 REV: 1.0Page: 4/6 ECN: _____**■ Absolute Maximum Ratings(Ta=25℃):**

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	℃
Storage Temperature	T _{stg}	-40 to +80	℃
Soldering Temperature * ¹	T _{sol}	260	℃

*1: Soldering time ≤ 5 seconds.

■ Electro-Optical Characteristics (Ta=25℃):

Parameter	Symbol	Condition	Min	Typ	Max	Unit	Remark
Forward Voltage	V _F	I _F =120mA	--	3.5	4	V	*1
Reverse Current	I _R	V _R =5V	--	--	10	μA	
Luminous Intensity	I _V	I _F =120mA	--	70	--	cd/m ²	
Illuminance Power Deviation	ΔEH	I _F =120mA	--	--	35	%	*3
Chromaticity Coordinates	x	I _F =120mA	--	0.28	--		*2, *3
	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: (Ta=25℃, 65%RH)

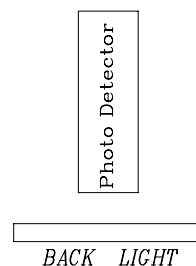
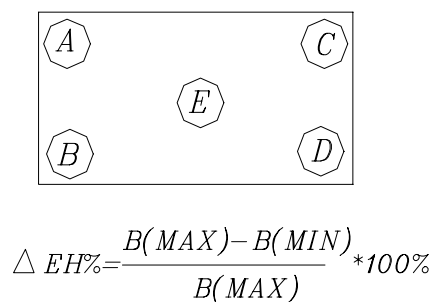


Figure 1 :Point for testing deviation→A,B,C,D,E

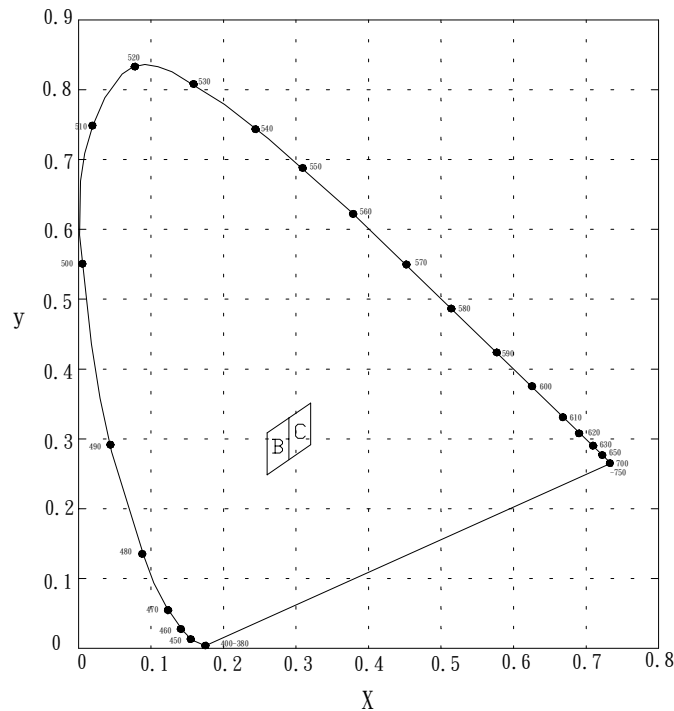


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■ CIE Chromaticity Diagram:



* 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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■ **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:**

