

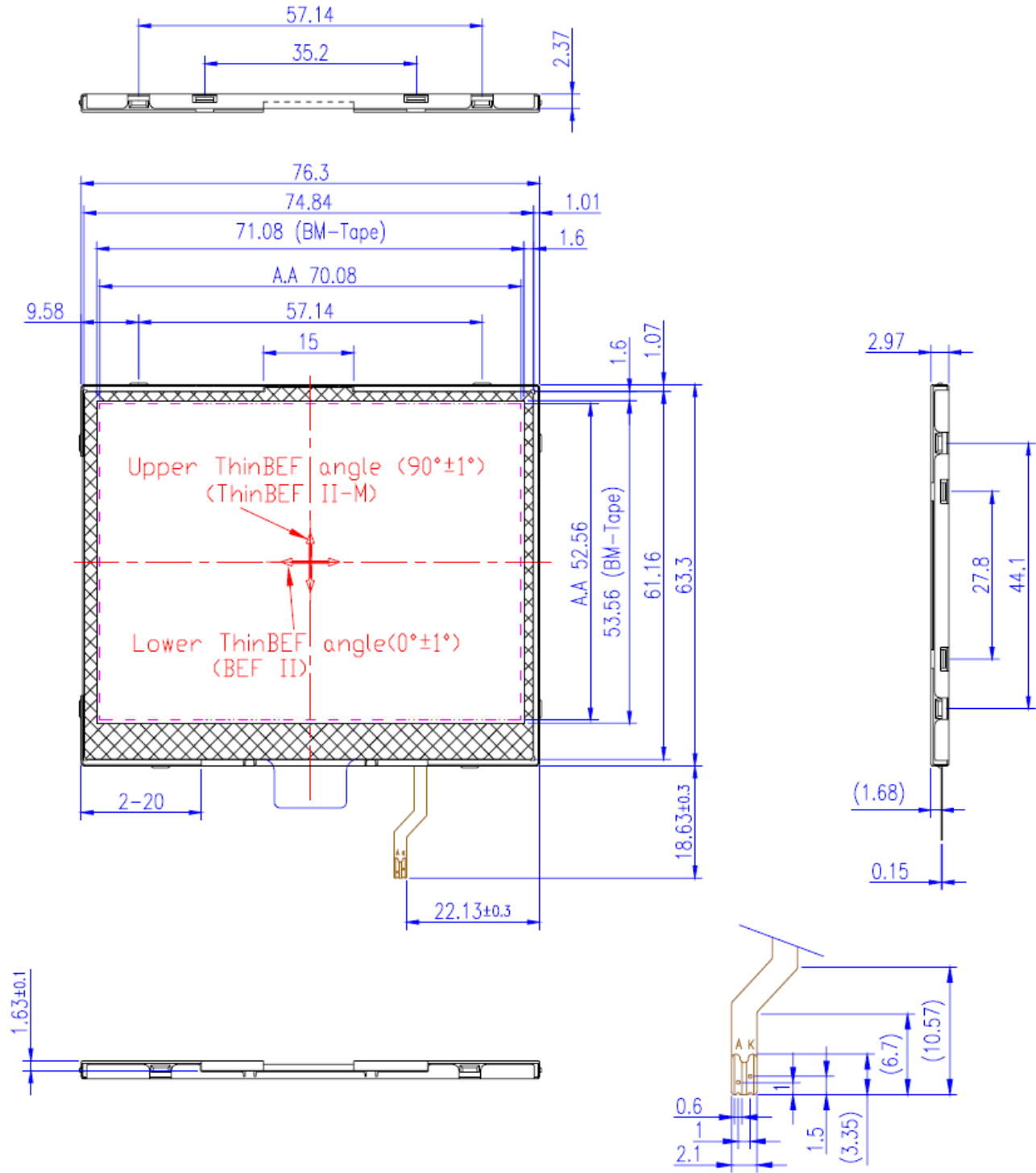


American Opto Plus LED

BL-S7663LW-F

White Side-Look LCD Backlight

PACKAGE DIMENSIONS



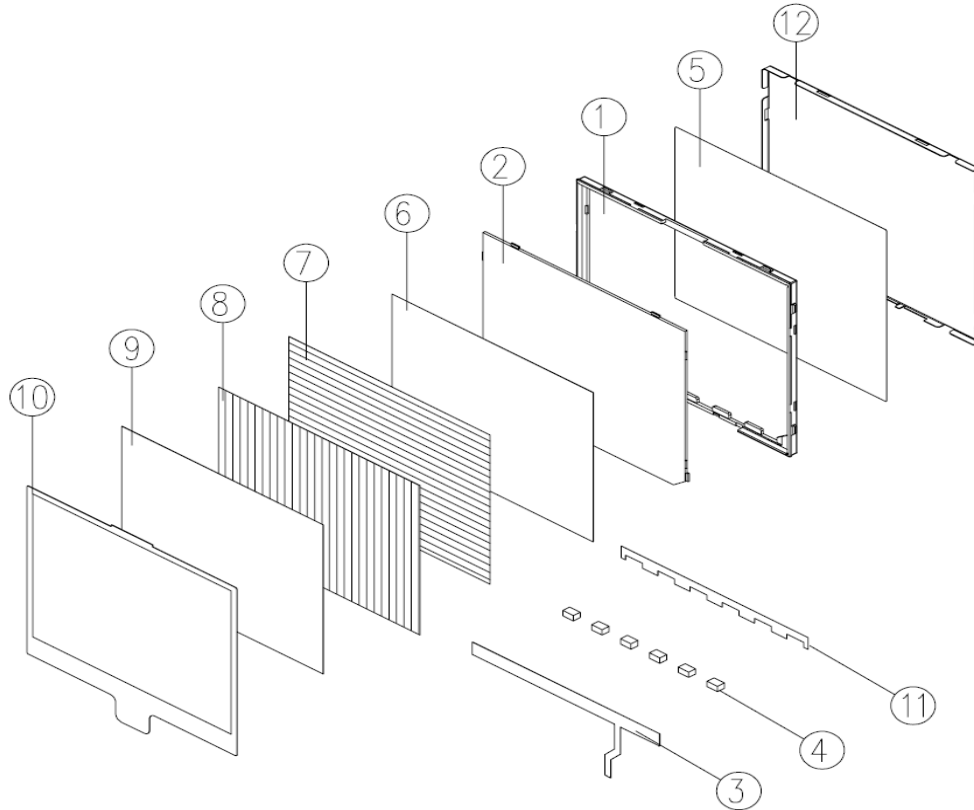
Notes: 1. All dimensions are in millimeters 2. Not Specified tolerance is ± 0.2mm



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EXPLODE



No.	Parts Name	Q'ty	Material
1	Housing	1	PC (White)
2	Light Guide	1	PC or PMMA
3	FPC	1	
4	LED Chip	6	White SMD LED
5	Reflective sheet	1	ESR
6	Down Diffusion Tape	1	38LSE
7	BEF II	1	3M
8	THIN BEF II-Mi	1	3M
9	Top Diffusion	1	50TL2
10	PET Protection film	1	PET
11	Double side adhesive tape	1	TESA# 4972
12	Case 1	1	SUS304



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ABSOLUTE MAXIMUM RATINGS

(Ta=25°C)

Parameter	Symbol	Max Rating	Unit
Power Dissipation *1	P_{AD}	432	mW
Forward Current *1	I_F	20	mA
Reverse Voltage *1	V_R	30.0	V
Operating Temperature Range	T_{OPR}	-20~+70	°C
Storage Temperature Range	T_{STG}	-30~+80	°C

OPTICAL-ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Luminous Intensity	I_V	$I_F = 20\text{mA}/\text{backlight}$	2600	3000		cd/m ²
Forward Voltage	V_F	$I_F = 20\text{mA}$	19.2	20.4	21.6	V
Reverse Current	I_R	$I_F = 20\text{mA}$			0.2	mA
Chromaticity Coordinate X	X	$I_F = 20\text{mA}/\text{backlight}$	0.27	0.30	0.33	
Chromaticity Coordinate Y	Y	$I_F = 20\text{mA}/\text{backlight}$	0.29	0.32	0.35	
Luminous Tolerance	lv-m	(min-max)/ avg. x 100			20	%

*1: INTERNAL CIRCUIT DIAGRAM



6 CHIPS

*2: TESTING CIRCUIT



Current = 20 mA/ea

Ta = 25 °C



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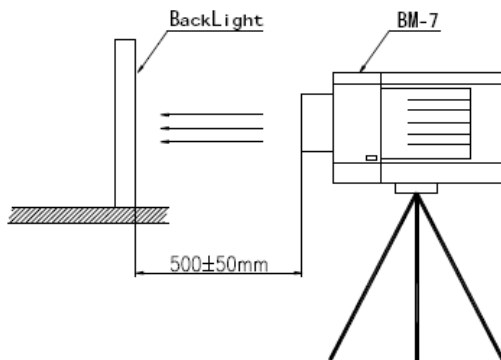
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PRELIMINARY SPECIFICATION

MEASURING CONDITION AND METHOD FOR OPTICAL CHARACTERISTICS:

1. Measuring environment
 - a. Measuring environment: Ambient temperature $23 \pm 2^\circ\text{C}$, humidity $60 \pm 5\%$, draft free condition, dark room (less than 10 Lux)
 - b. Backlight drive: Backlight shall drive with 15mA/SMD of input current
 - c. Measuring instrument: BM-7
 - d. Measuring Time: Measuring shall carry out when the thermal heat reach to a state of perfect balance, after driving backlight more than 5 minutes
2. Measuring method

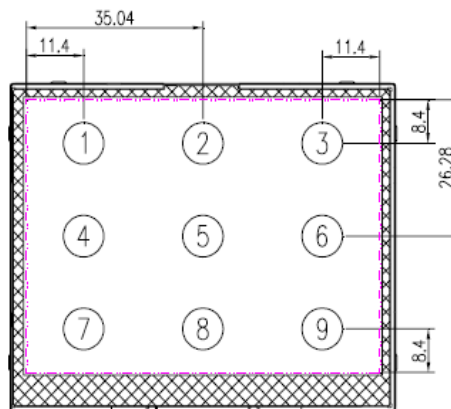
Measuring point: The brightness measuring device shall be located at a distance of 500 ± 50 mm from the radiation surface of backlight with perpendicular direction and the measurement is to be carried out under the visual angle of brightness measuring device is set as 1.0°



3. Measurement of luminance

This luminous intensity is the average of 9 detected points. The standard aperture is set at $\psi 5$

Luminous Tolerance: The ratio of the maximum luminance (B_{max}) and the minimum luminance (B_{min}) bases on 9 detected points





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Defective Appearance

Defective Appearance	Specification	Tolerance Number
Black Spot / White Spot	$0.20 < D$	0
	$0.10 < D \leq 0.20$	2
	$D \leq 0.10$	No Check
Foreign Material Line	$2.50 < L$	0
	$1.00 < L \leq 2.5$	2
	$L \leq 1.00$	No Check
	$W \leq 0.03$	No Check

D: (Major Axis + Minor Axis) / 2 L: Length W: Width

Whatever the length, if any foreign material line is crossed, which will be as a defective unit.

Foreign particle existence other than the light emitting area need not be checked.

It is excluded not to see the foreign particle in light emitting area while separated by 30cm.