



Applying the  
technology of light

## OMC White Backlight Panels

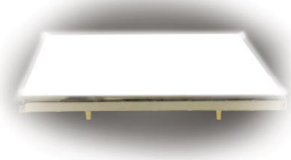
### Features:

- \* Low Current Requirements
- \* High Light Output

- \* Reliable and Rugged

### Applications:

- \* LCD backlight
- \* Video, Audio Equipment



No EMC issues and no high voltage levels associated with inverters needed to strike Cold Cathode tube backlights.

OMC introduce a revolutionary backlight using latest multilayer diffusion technology to create a bright even panel of white light using only single edge illumination. This product finds applications not only as a backlight for LCD's used in PDA's and handheld instruments, but can also be utilised in photographic applications as a possible slide viewer or as a light source to backlight signs, colour transparencies, etc.

### < Maximum Ratings (Ta=25°C)>

Reverse Voltage	5V
Power Dissipation	80mW
Electric Static Discharge Threshold	1000V
D.C forward current per LED	20mA
Pulse current per LED (10% duty cycle 0.1ms pulse width)	100mA
Operating temperature range	-25°C to +85°C
Storage temperature range	-40°C to +100°C
Lead soldering temperature (1.6mm from body)	+260°C for 5 Secs

### < Electrical / Optical Characteristics at Ta=25°C >

Backlight Series Part No.	LED Chip		Backlight Panel Color	Chromaticity Coordinates IF@10mA	Forward Voltage IF@20mA (V)		Luminous Intensity Per Emitter IF@20mA (mcd)		Viewing Angle 2θ 1/2 (Deg)
	Material	Emitting Color			Typ.	Max.	Min.	Typ.	
BSUWSxxx	InGaN	White	White	X=0.29	3.6	4	330	580	120
				Y=0.30					

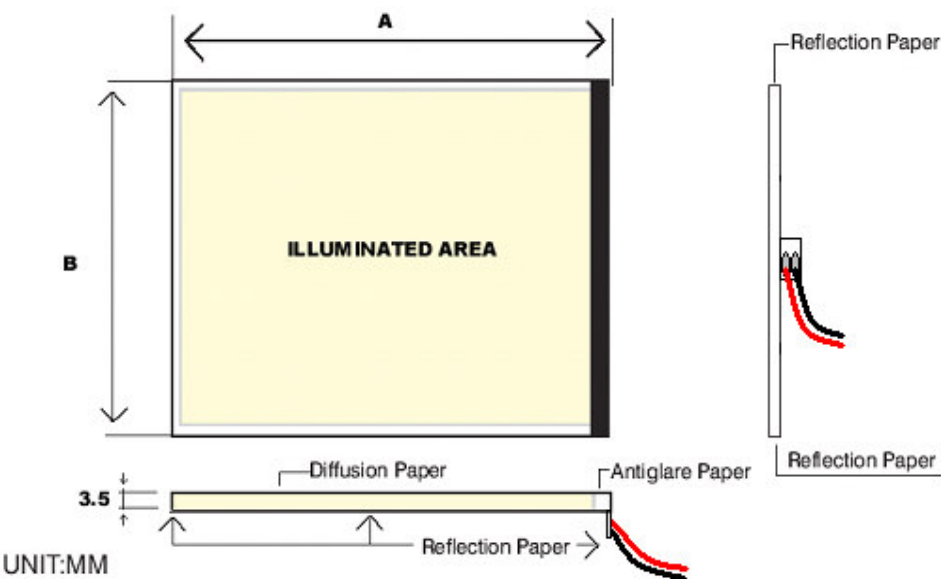
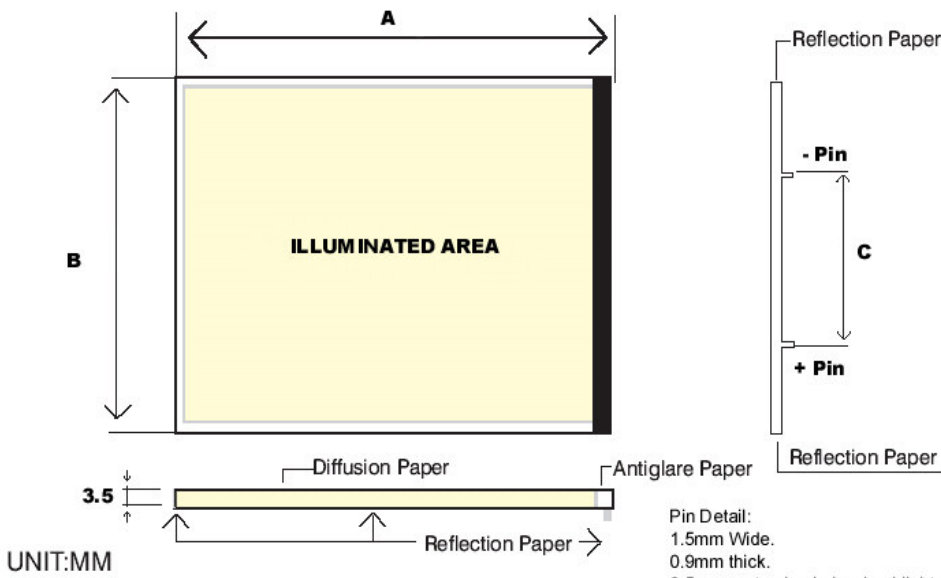
### < Package Dimensions >

Backlight Part Number	Number of LEDs	A	B	C
BSUWSP1008TE	8	111mm	86mm	42mm
BSUWSP1011TE	11	75mm	95mm	42mm
BSUWS16615TE	15	109mm	157mm	N/A
BSUWS16718TE	18	134mm	182mm	N/A
BSUWS16824TE	24	165mm	233mm	N/A
BSUWS17427TE	27	193mm	241mm	N/A

The smaller (BSUWSPXXX) types do not have onboard current limiting resistors, supply voltage must be current limited. Connection is made by two legs soldered directly to PCB. The larger (no P) types operate direct from 12V DC (current limiting resistors fitted on-board) and have a simple two wire connection.

\* Tolerance : + / - 0.25 mm

\* All dimensions are in mm.



**Precautions:**

These products are sensitive to static electricity; care must be taken when handling. Particularly if a voltage that exceeds the Absolute Maximum Rating of the backlights were applied. The excess energy will cause damage to and possibly result in destruction of these products. The Buyer shall take absolute secure countermeasures against static electricity and surge when handling these products.

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