

short form data

## B-LED modules

B-LED series



**L/70 at 36K hrs:** 36,000 hours to 70% of initial light output backed by a 5-year warranty means dependable, high quality LED lighting modules for the sign maker

### Description

B-LED is a range of three modules comprising 1, 2, and 3 LED versions with 30, 65 and 93 lumen outputs making it ideal for today's wide variety of sign lighting applications.

Modules include high brightness, low energy and long-life (Epistar 2835 SMD) LEDs behind broad-beam lenses all encapsulated by a dust and weatherproof module.

Modern, reliable and rapid automated manufacturing processes combined with state-of-the-art continuous wire IDC (insulation displacement connector) and constant-current IC (integrated circuit) technology to bring excellent quality, performance and economy to the sign maker.

**Amari** PLASTICS PLC B-LED is available exclusively from branches of Amari Plastics PLC, nationwide.

- Wide beam 160°
- One, Two and Three **EPISTAR** SMD LEDs
- High brightness and efficiency
- Low power consumption
- Fast installation and low maintenance
- Dust and weather resistant (IP65)
- Safe, low power operation (12VDC)
- 5 years warranty and 36,000 hours to 70% light output

Each module has a peel-off, self-adhesive backing and provision for screw fixing all making for a fast and secure installation.

### Applications and compliance

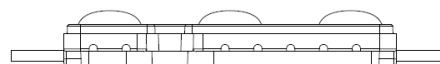
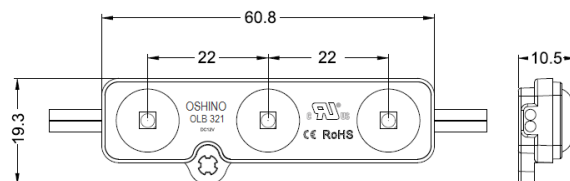
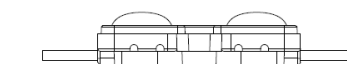
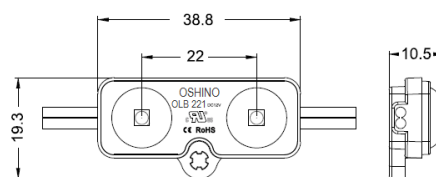
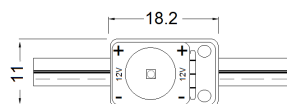
Sign applications including small, medium and large built-up channel letters, sign boxes.

### Compliance

IP65 RoHS  

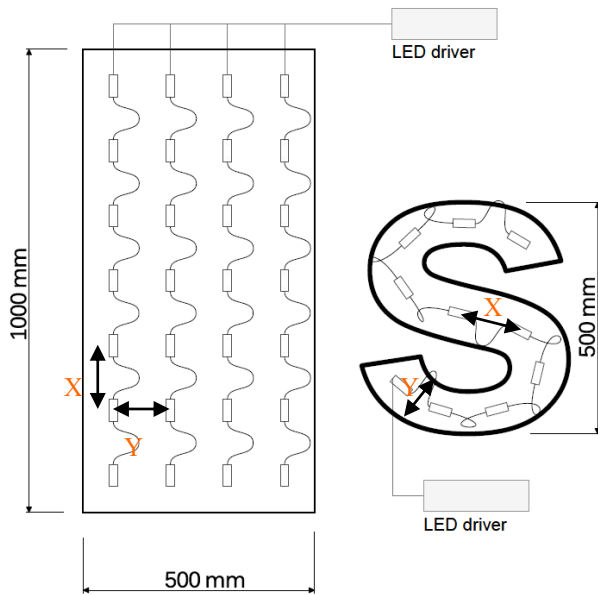


B-LED 121 (top)  
B-LED 221 middle &  
B-LED 321 bottom)



## Design Guide

B-LED 221 example: A sign box with 120mm returns and a built-up letter with 80mm returns



*Need help with lighting a sign? Send a vector graphic pdf file of your sign or sign box to sales@oshino.co.uk subject line LED Wizard and we will do the rest.*

Oshino recommends using LED compatible substrates

**greencast** Seta-LED®

and **Acrycast**® LED from **Amari** SIGNS DISPLAY & GRAPHICS

### B-LED 221 module

LED compatible acrylic



or

Standard 'fluorescent tube' acrylic



Rtn depth	40-60	60-80	80-100	100-120	120-140
pitch X	80	100	150	150	150
pitch Y	80	100	150	150	150
pitch X	80	100	120	120	150
pitch Y	80	100	140	150	150

## Specifications

Optical and electrical data typical @ ta 25°C +/-2° @ 12V | Ambient operating temp. range -20 to 60°C

Colour	White		
Part No.	B-LED 121 WH	B-LED 221 WH	B-LED 321 WH
Number of LEDs	1	2	3
Input Voltage	12VDC (min 11.4 max 12.6)		
Operating Current	0.025A (Max.)	0.06A (Max.)	0.085A (Max.)
Power Consumption	0.3W (Max.)	0.72W (Max.)	1.02W (Max.)
Dimension	18.2(L) x 11(W) x 9.9(H)	38.8(L) x 19.3(W) x 10.5(H)	60.8(L) x 19.3 x 10.5(H)
Mod. pitch / chain	50mm / 2.5metres	150mm / 7.5metres	200mm / 10metres
Beam Angle	160°		
Luminous Flux / Efficacy	30lm 100lm/W	65lm 91lm/W	93lm 91lm/W
Colour / Temperature	6500K (range 6000K~7000K)		
Max. mods. in series	50		
Supplied in pack qty	50	50	50

- Notes: 1. Other wavelength colours incl. red, green and blue plus additional white temperatures are available  
 2. Life-time is reduced when max operating temperature and input voltage are exceeded  
 3. See website or our e-brochure for latest edition



Our Design Guide is for reference only and the ideal appearance should be checked with a lit trial | Dimensions in millimetres | Data subject to our Terms and Conditions and are liable to change without notice | E&OE | A BSI member | © OSHINO Apr 2017  
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