



## CHIPLETE CL-XO MODULE FOR LETTERS AND LIGHTBOXES FROM 30 MM DEPTH

The CL-XO module is fitted with two SMD LEDs including optical lenses and an IP65 rated housing. At only 50mm x 14.6mm in size and available in chains of 100, it can be used from a depth of 30mm. This module generates a luminous flux of 58 lumens using 0.48 watts of power (120 lumens per watt) making it the perfect choice for shallow letters.

### TECHNICAL FEATURES

- TWO SMD LEDs WITH OPTICAL LENSES AND AN IP65 RATED HOUSING
- LED CHIPS ARE CONSTANT CURRENT REGULATED
- SUPPLIED CHAIN LENGTH: 100 MODULES
- DIMENSIONS: 50MM X 14.6MM
- OPERATING VOLTAGE: 12 VOLTS
- POWER CONSUMPTION: 0.48 WATTS PER MODULE
- LUMENS PER MODULE: 58
- EFFICIENCY: 120 LUMENS PER WATT
- BEAM ANGLE: 160 DEGREES
- CE IN ACCORDANCE WITH EN 55015

### SAFETY AND ASSEMBLY INFORMATION

- The components on the circuit board should not be subjected to mechanical stress
- The conductors should not be damaged or interrupted
- Only power supplies approved by Chiplite may be used to operate our modules
- Avoid electrostatic charges and discharges

### ELECTRICAL AND OPTICAL OPERATING DATA

| COLOUR        | CURRENT (MA) | INPUT (WATTS) | VOLTAGE (DC) | LUMINOUS FLUX (LUMENS) | LUMENS PER WATT (LM/W) | COLOUR TEMPERATURE (KELVIN) |
|---------------|--------------|---------------|--------------|------------------------|------------------------|-----------------------------|
| White 7.0     | 40           | 0,48          | 12           | 58                     | 120                    | 7.000 K                     |
| Warmwhite 3.5 | 40           | 0,48          | 12           | 55                     | 114                    | 3.500 K                     |
| Red           | 40           | 0,48          | 12           | 12                     | 25                     | 620 nm                      |
| Green         | 40           | 0,48          | 12           | 24                     | 50                     | 520 nm                      |
| Blue          | 40           | 0,48          | 12           | 7                      | 14,6                   | 465 nm                      |
| Warmwhite 4.5 | 40           | 0,48          | 12           | 55                     | 114                    | 4.500 K                     |
| White 5.5     | 40           | 0,48          | 12           | 55                     | 114                    | 5.500 K                     |

### LIMIT VALUES

| TYPE      | VOLTAGE (DC) |        | OPERATING TEMPERATURE °C |         | STORAGE TEMPERATURE °C |         |
|-----------|--------------|--------|--------------------------|---------|------------------------|---------|
|           | V MIN.       | V MAX. | °C MIN.                  | °C MAX. | °C MIN.                | °C MAX. |
| All Types | 11           | 13     | -20                      | 70      | -40                    | 85      |

Exceeding the limit values can result in a significant shortening of the service life or destruction of the module.