



# M4532 LED backlit module

This module is designed as light source for indoor and outdoor advertising light box or such other requirements of backlit illumination. It is suitable for use as light source of light box with thickness  $\geq 100\text{mm}$  with optical grade acrylic display panel.

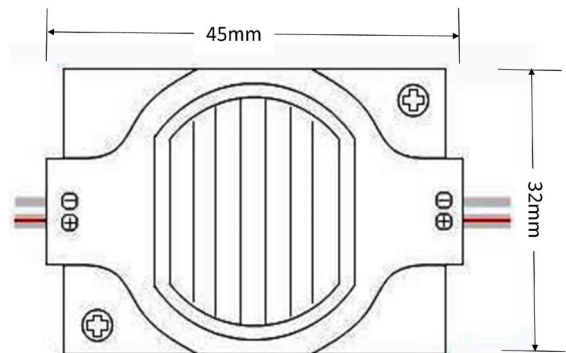


## General Characteristic

Construction	LED is integrated with aluminium alloy base plate secured by plastic housing, thus highly efficient for heat dissipation.
Installation	Positioned by 3M double-side tape secured by M1.5mm screw to back panel of light box.
Ingress protection	IP65 rating compliant
Standard interface	20 units of modules in one string could be freely customized to any quantity in single string according to requirements.
Diffuser	Diamond-cut optical grade acrylic
Life span	50000 hours L <sub>70</sub> complaint
Certification	CE, RoHS
Operation temp	-30°C ~+60°C
Operation humidity	95% Rh
Size overall	45 x 32 x 14mm per unit
Weight	1.2kg per 100 units

## Light Characteristic

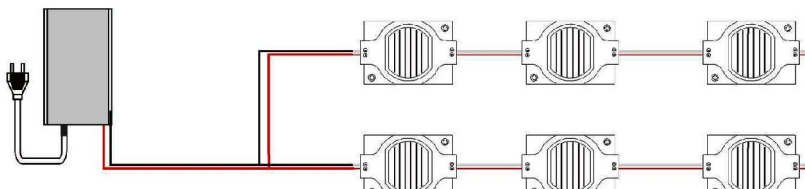
Light source	High intensity 2835 LED chip
Color rendering index	$\geq 75$ Ra
Color temperature	3200K (K3); 4200K (K4); 6500K (K5)
Luminous efficacy	100~120 lumen per unit
Beam angle	15 x 60° lens
Uniformity (uO)	$>0.4$
RF interference	NO



Size Overall

## Electrical Characteristic

Input power	85~265VAC, 50/60Hz
Power supply	Constant voltage LED driver
Constant voltage	12VDC
Power factor	$\geq 0.96$
Ripple wave/noise	$<200\text{mV}$
Wire interface	Red/Blue



### Note of wire interface diagram

1. Power supply: 12VDC constant voltage.
2. Recommended optimal connection is 20 units per string. But, it could be freely reduce or extend to n units per string subject to capacity of power supply.
3. Follow the polarity of wire according to the color, i.e. RED (+)/WHITE (-).

