

A unique LED light source for agriculture.

Card LED Strip Light

This LED light product has been developed for researchers and developers pursuing SSL enhanced growing of plants and vegetables with LED light.

- Preferred wavelengths can be easily changed via changing LED components in plug-in sockets.
- Single and multiple (peak wavelengths) are available in a single device with and without phosphors.
- Available wavelength ranges:
450-460 nm, 525-535 nm, 590-600 nm, and 655-665 nm.
- With Blue + Red phosphor,
- With 660 nm + 465 nm + Green & Orange phosphor.

The following photo shows Card LED components in sockets on flexible copper strips. Card LEDs may be used with straight and right angle sockets.

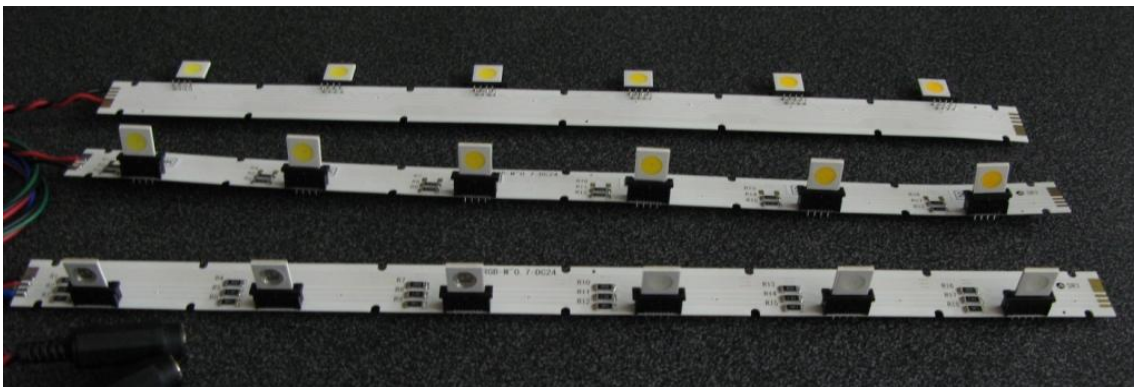


Figure 1: Card LED components on flexible copper strips



Figure 2: Flexible copper strip with straight sockets for Card LED



Figure 3: Circular downward array Card LED configuration in metal can.

Electrical characteristics:

- Operating voltage: 24V DC , drive current: max 750mA

Outline drawing Card LED component:

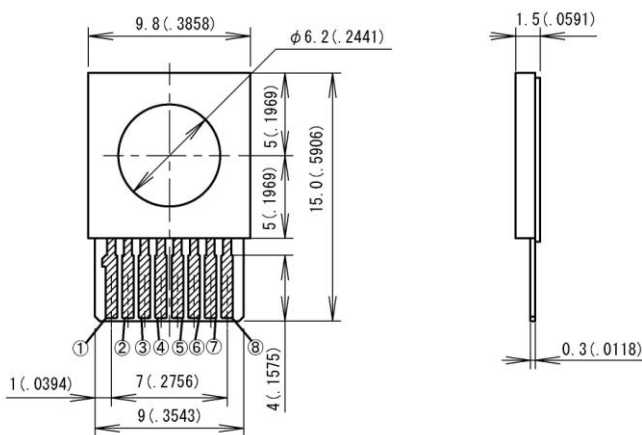


Figure 4: Card LED (units: mm)

Card LED circuit diagram:

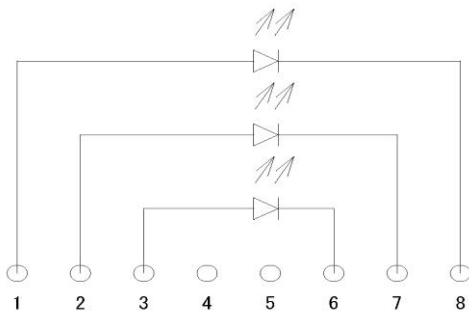


Figure 5: LED die are connected across metal traces as shown

Outline drawing for Card LED flexible copper strip:

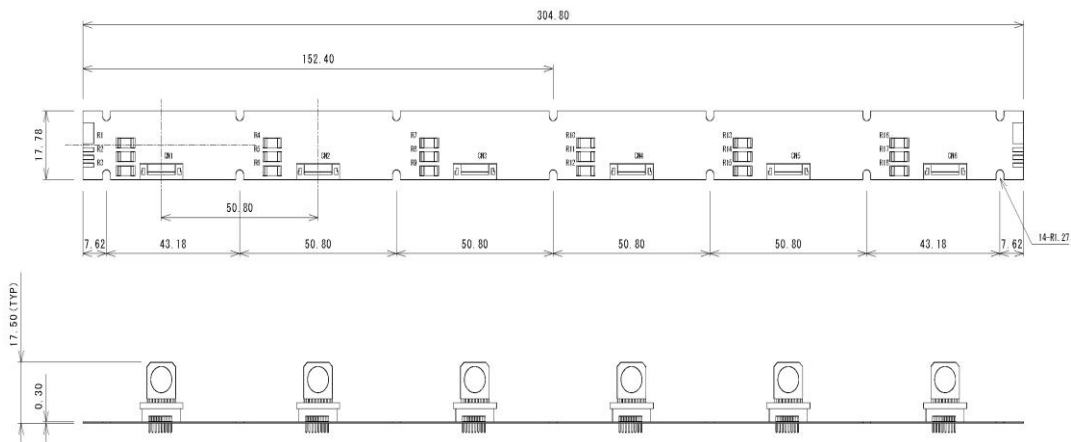


Figure 6: Strip shown with straight up sockets

Standard selection of LED chip available by part number:

- YCD24RMW
 - Use chip
 - Blue : peak wavelength(λ_p): 450-455nm
 - Red : peak wavelength(λ_p): 660-670nm ×2 chip
 - Phosphor : peak emission wavelength(λ_p): 529nm
- YCD24RR3
 - Use chip
 - Red : peak wavelength(λ_p): 660-670nm ×3 chip
- YCD24RRB
 - Use chip
 - Blue : peak wavelength(λ_p): 450-455nm
 - Red : peak wavelength(λ_p): 660-670nm ×2 chip
- YCD12A3
 - Use chip
 - Amber : peak wavelength(λ_p): 590-595nm ×3 chip

Please contact us for other custom configurations.

Applications:

Enhanced indoor growing of plants, vegetables, mushrooms, etc.