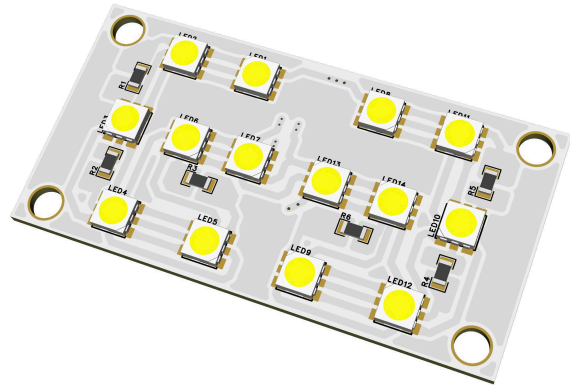
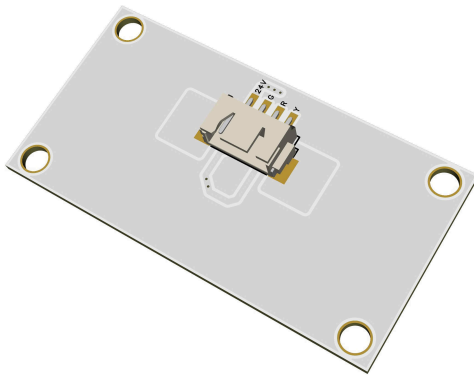


LB-5050-14 LED PCB BOARD

The **LB-5050-14** LED PCB Board is a robust and versatile lighting module designed for industrial, commercial, and specialized applications. Its compact form factor, combined with efficient surface-mount RGY5050 LEDs, ensures maximum brightness with minimal power consumption.



The board supports 24VDC operation and includes essential design protections such as current-limiting resistors tailored to each LED color to enhance durability and performance. This board is ideal for control panels, indicator systems, and status lighting where multi-color indication is required. Its 14 LEDs provide clear visibility and efficient signaling across Red, Green, and Yellow colors. Built with high-grade PCB materials and precision-routed traces, the **LB-5050-14** ensures optimal heat dissipation and long service life.



Additionally, safety and ease-of-use have been prioritized in its design. The SMH200-04 connector is placed on the back side of the board to facilitate easy wiring while ensuring electrical isolation from any external metal housing. The connector does not make contact with metal enclosures, eliminating the risk of short circuits or interference.

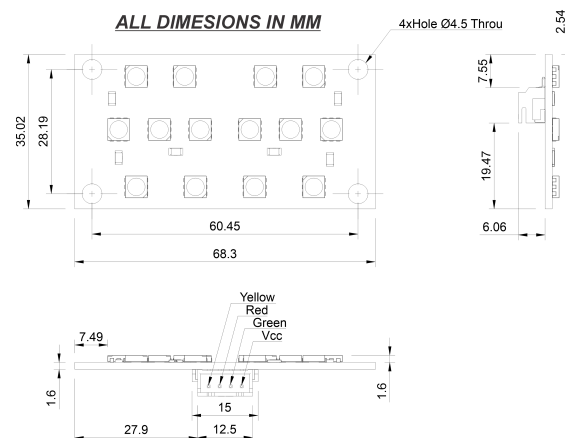
Feature	Description
LED Count	14 pcs RGY5050 (Red, Green, Yellow)
Power Supply	24VDC
Connector Type	S4B-XH-SM4-TB(LF)(SN)
Pinout	Pin 1: 24V, Pin 2: Green, Pin 3: Yellow, Pin 4: Red
Current Limiting	Resistors matched to LED color
Header Type	4P connector header
Mechanical Safety	Connector does not contact metal cover
Mounting	4 mounting holes for secure attachment

ELECTRICAL AND MECHANICAL SPECIFICATIONS

Parameter	Specification
Input Voltage	24VDC
LED Type	5050 SMD (Red, Green, Yellow)
LED Quantity	14 pcs
Resistor Type	SMD, calculated per LED color
Connector	S4B-XH-SM4-TB(LF)(SN)
Pin Assignment	Pin 1: 24V, Pin 2: Green, Pin 3: Yellow, Pin 4: Red
Mounting Holes	4 x M3 standard
Board Dimensions	Custom compact size (exact dimensions optional)
Material	FR-4 PCB with white solder mask
Thermal Management	Passive heat dissipation via copper traces

TYPICAL APPLICATIONS

- Control and automation panels
- Industrial signal and status indicators
- Smart home lighting modules
- Traffic control systems
- Decorative and architectural lighting
- Machine status or warning displays
- Multi-color visual indicators



NOTE

Ensure proper heat management and voltage regulation during installation. Avoid direct contact between the connector and any metal enclosures to prevent electrical hazards.