

KEC2111/KEC2112/KEC2113/KEC2114/KEC2115/KEC2116

Features

- Accurately detect LED color and Luminance intensity
- Using high accuracy sensor and color filter
- Combine the sensor and circuit together, without using optical fiber
- Miniature size and Easy mounting on pin board fixture

Application

- LED test on PCB functional test
- LED test on final production test.
- LCD back light test
- Amusement machine panel test
- Automobile meter panel, brake lamps, side turn lamps



Production Description

Single Color LED test probe KEC211x is developed to test the colors and brightness of LED on printed circuit boards and other electronics production. The probe senses the light with the assigned color, output the voltage. It makes the function test of PCB or final production easy and smart.

The probes for color RED, GRREN, BLUE, and WHITE, combine the RGB sensor and low input bias and extends temperate range operational amplifiers together. The probe uses DC5V/5mA, and directly output the RGB sensed

voltage ranged from 0V to 5V. It work extremely stable at wide temperature range, can meat the needs of not only the LED panels, amusement machine but also the test of Automobile electronics.

The probes for color YELLOW and ORANGE combine the special photo diode for measurement and color filter to pickup the assigned color.

Order information

Part number	KEC211xR	KEC211xG	KEC211x B	KEC211x Y	KEC211x A	KEC211xW
LED color under test	RED	GREEN	BLUE	YELLOW	ORANGE	WHITE
KEC2111	For LED Luminous intensity lower than 20mcd *					
KEC2112	For LED Luminous intensity ranged 15-60mcd					
KEC2113	For LED Luminous intensity ranged 40-160mcd					
KEC2114	For LED Luminous intensity ranged 125-500mcs					
KEC2115	For LED Luminous intensity ranged 400-1500mcd					
KEC2116	For LED Luminous intensity Over 1500mcd					

Specification

Single Color LED Test Probes		Model KEC211x
Work distance Range Recommended	2-8mm 4mm	Probe front to the top of LED under test
Sensor used	Low dark current, visible lighting silicon photo transistor	
Supply Voltage	DC 5V to 12V < 5mA	
Output voltage	0-5V	Vary with the LED luminous intensity
Absolute max. Supply voltage	7.0V	
Signal Cable Type Length Signal assignment	Flat flex cable 3contacts (AWG28) About 1000 mm Contact 1 Green 5V Contact 2 Gray GND Contact 3 Gray Signal	
Size Diameter Length	7.5±0.2 mm 43±0.2 mm	
Mount method	M3 screw hole	
Temperature Operating Storage	-10 to 60°C -25 to 60°C	



For more information visit

www.kectech.com

Kyoritsu Electric Corporation (Canada)

60 Granton Drive, Unit 8

Richmond Hill, L4B 2N6

Tel: (905)597-5840 FAX: (905)597-5842