

## SMK Improves Connectors for COB LED Module by Making Them Halogen-free and UL Certified



SMK Corporation has improved its current connectors for Chip On Board (COB) LED module to enhance customer convenience.

### <Improvements>

- ① SMK has produced COB connectors with UL94 HB flame retardancy by using halogen-free molding materials. (Among the halogen elements, bromine is said to affect the lifetime of the LED.) In addition, the company is due to commence mass production of UL94V-0 products with the halogen-free molding materials by the end of this year.
- ② All series of connectors for COB LED module have newly been certified according to UL 8754, helping customers to eliminate man-hours for acquisition of the certification. (As a lightning surge measure, a sufficiently spacious creepage distance has been secured in compliance with the IEC and JIS standards, achieving safe breakdown voltage.)
- ③ Product lineup was expanded with connectors using silicone heat-dissipation sheets, which provide a stable heat dissipation performance toward COB LEDs whose output had rapidly increased.



### <Structure>

The connectors are composed of top and bottom covers within which a LED is inserted. LED heat is dissipated to the heat sink by the thermal conduction sheet integrated to the bottom cover.

It requires no preliminary processes such as applying thermal conduction grease or attaching thermal conduction sheet, improving assembly workability and reliability.

The power supply section uses a snap-in contact to realize easy and secure electric wire connection.

### <Compatible LED Manufacturers>

Series	LED Manufacturers
LT-10	Nichia Corporation
LT-11	Citizen Electronics Co.,Ltd.
LT-12	Cree, Inc.
LT-14	SEOUL SEMICONDUCTOR CO.,LTD.

※Please contact SMK Corporation for part numbers of compatible COB and connectors.

### 【Applications】

General illumination apparatus with COB LEDs: Indoor lighting, down-lighting, street lights, stadium lights, etc.



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Press Release Number	1084CS	
Product Name	Connector for COB LED Module "LT-10/11/12/14 Series"	
Major Specifications	Voltage and Current Rating	250V AC/DC at 2A
	Operating Temperature Range	-40°C to +105°C
	Contact Resistance	30mΩ maximum
	Insulation Resistance	1,000MΩ minimum (500V DC)
	Withstanding Voltage	500V AC/DC (1 minute)
	Breakdown Voltage [Reference Value]	4kV (creepage distance 3.0mm or greater), 6kV (creepage distance 5.5mm or greater)
	Production Capacity	300,000 units per month
Sample Price	500 yen per unit	
Inquiry	<a href="#">For more information, please contact the CS Division</a>	