

Poke-home Connector MCPCB
with Thermistor for LZC emitter family

LZC-FxxxT1

2x6 configuration



Key Features

- Poke-home connectors already mounted on the MCPCB for easy connections
- 1-channel configuration allows for easy driver control for LZC emitters
- Very low Thermal Resistance for MCPCB adds only 0.6°C/W
- Zener Diodes for ESD protection
- On-board thermistor for common constant current source with thermal feedback option
- LuxiGen LZC Lens family (8° / 15° / 23° / 32° / 45°) holders align with the MCPCB cutouts
- Multiple mounting and attachment options

Description

The LZC-FxxxT1 MCPCB with two 2-pin poke-home connectors provides a convenient method to connect LED Engin's LZC emitters. One 2-pin poke-home connector supports 2 parallel strings of 6 die in series; the second one connects the thermistor. Four recessed features allow the use of M3 or #4-40 screws to mount the MCPCB to a heat sink. There are additional mounting holes for the complementary TIR lenses and Zener diodes for enhanced ESD protection.

Standard Product Part Numbers additional parts based on emitter nomenclature

LZC-F0WWT1	LZC-series, Warm White 12 die emitter mounted on connector board in 2x6 configuration with 1000kΩ thermistor
LZC-F0NWT1	LZC-series, Neutral White 12 die emitter mounted on connector board in 2x6 configuration with 1000kΩ thermistor
LZC-F0CWT1	LZC-series, Cool White 12 die emitter mounted on connector board in 2x6 configuration with 1000kΩ thermistor

Thermistor Options

Part Designator	Thermistor type	Resistance @ 25°
-T1	Murata, PN: NCP15WF104F03RC	100kΩ

Wire Insertion and Extraction Instructions

For the connectors it is recommended to use solid wires with gauge size, 18, 20, 22 or 24 AWG. Push in and then give slight tug on the wire to confirm that it is properly engaged.

Extraction Tool References:

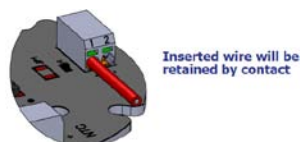
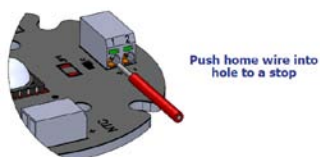
Thin Blade Wire Extraction Tool: AVX P/N - 0692-7670-0101-000

Miniature Precision Screw Driver, 0.047" Tip Width

Wire Insertion

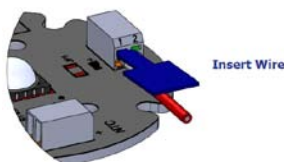
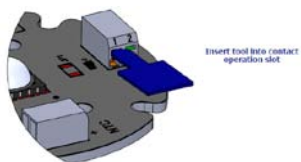
Solid conductor

- Strip insulation length 4-5mm
- Insert into appropriate hole to a stop
- Inserted wire will be retained by contact



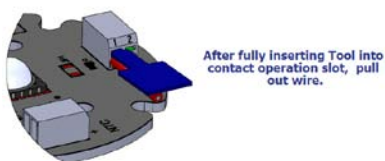
Stranded wire conductor

- Twist strands together
- Insert tool into contact operation slot
- Insert wire
- Remove tool



Wire extraction

- Insert tool into contact
- Extract wire
- Remove tool



Company Information

LED Engin, based in California's Silicon Valley, specializes in ultra-bright, ultra compact solid state lighting solutions allowing lighting designers & engineers the freedom to create uncompromised yet energy efficient lighting experiences. Our LuxiGen™ Platform— an emitter and lens combination or integrated module solution, delivers superior flexibility in light output, ranging from 3w to 90w, a wide spectrum of available colors, including whites, multi-color and UV, and the ability to deliver upwards of 5,000 high quality lumens to a target. The small size, yet remarkably powerful output, allows for a previously unobtainable freedom of design wherever high-flux density, directional light is required.

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