

# INVERTED THRU BOARD CARD EDGE AND INVERTED POKE-IN PLATFORM CONNECTORS

The Inverted Card Edge and Poke-In Platform Connectors provide 3.0mm creep and clearance from all other conductive components on FR4 and metal clad printed circuit boards (PCB). The 2 position connectors share the same PCB footprint while offering flexibility in providing either a direct power driver board one piece mating solution or a poke-in wire connection to the underside of the LED array boards.

## ELECTRICAL

- Operating Voltage: 400 VAC / VDC
- Operating Current:
  - 3 A, Inverted Card Edge and 18-22 AWG Poke-In
  - 2 A, 24-26 AWG Poke-In
- Operating Temperature: -20 to 130°C
- 3mm creep and clearance from contacts to metal clad printed circuit board (MCPCB) substrate for non-isolated line voltage power supplies (dielectric withstand voltage)

## MECHANICAL

### Inverted Card Edge Termination:

- Offered in two versions to accept 1.0mm or 1.6mm driver boards
- Polarity keying retention feature options provide additional retention force
- Upto 5 mating cycles

### Inverted Poke-In Termination:

- Offered in two versions for poke-in termination of 18 AWG stranded and 18-22 AWG solid and pre-bonded wire or 24-26 AWG solid wire
- Added 1mm depth dimension to accommodate the wire insulation guide barrels
- Single insertion mating

## MATERIALS

- Housing and Cover: 94 V-0 rated high temperature resistant thermoplastic
- Contacts: Tin over nickel plated copper alloy

## BENEFITS

- The inverted thru board ITB connectors are surface mounted at the same time as other devices on the PCB significantly reducing secondary processes
- Low profile, space-saving connector designed with and without a cover
- The 1.55mm without cover or 1.90mm with cover height above the PCB helps minimize LED light obstruction
- Surface mount hold downs provide stability during driver board mating, un-mating and poke-in mating
- Flat top surface helps to allow for vacuum pick up
- Tape and reel packaging for high speed SMT processing
- Designed with round corners to help minimize shadowing
- Both the Inverted Poke-in and Inverted Card Edge Connectors are available with an optional cap that provides for a touch safe design once soldered to the printed circuit board

## APPLICATIONS

- Retrofit LED bulbs
- Track lighting
- Spot lights
- Down lights

## STANDARDS AND SPECIFICATIONS

- UL 1977
- CSA Std. C22.2 No. 182.3
- Product Specification: [108-32041](#)
- Application Specification: [108-32054](#)

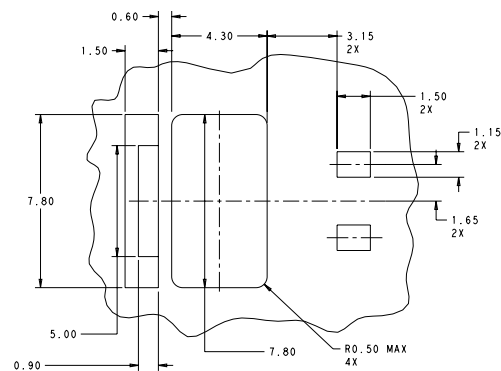
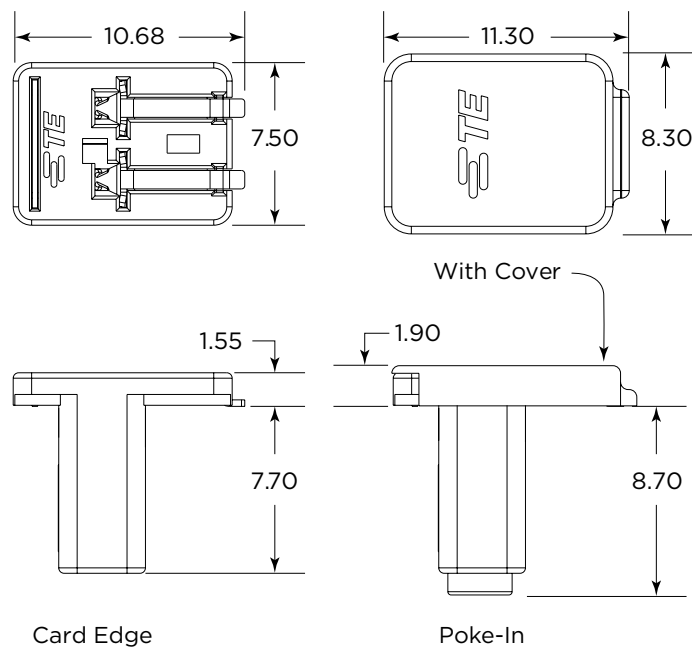
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## PRODUCT OFFERING

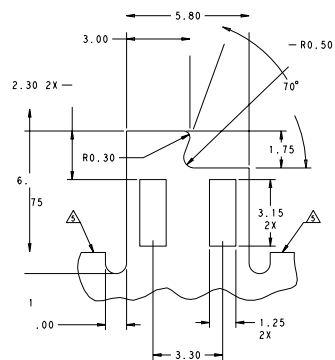
Part Number	Inverted Through Board Connector Style	Board Thickness	Wire Gauge
<a href="#">2213188-1</a>	Card Edge	1.0mm	
<a href="#">2213188-2</a>	Card Edge	1.6mm	
<a href="#">2213188-3</a>	Card Edge with Pre-installed Cover	1.0mm	
<a href="#">2213188-4</a>	Card Edge with Pre-installed Cover	1.6mm	
<a href="#">2213189-1</a>	Poke-In		18-22 AWG
<a href="#">2213189-2</a>	Poke-In		24-26 AWG
<a href="#">2213189-3</a>	Poke-In with Pre-installed Cover		18-22 AWG
<a href="#">2213189-4</a>	Poke-In with Pre-installed Cover		24-26 AWG



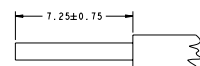
## PRODUCT DIMENSIONS



Board Layout



Mating PCB detail



Wire preparation detail

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