SMT and Thru-Hole Poke-In Wire Lighting Connectors

(Gel-Filled Option Available for Sealed Applications)

Tyco Electronics

Our commitment. Your advantage.

KEY FEATURES

- Connectors are available in 1 and 2 positions
- Standard and Low Insertion Force connectors available
- Accepts 18, 20 and 22 AWG solid wire; 18 and 20 AWG pre-bond stranded wire; 18 AWG stranded wire
- Connectors are available in both black and white colors for polarity
- Gel-filled versions are available for indoor moisture and outdoor application
- Low profile design
- Rounded corners to minimize shadowing
- Flat top surface allows for vacuum pickup
- High temperature material for reflow processing
- Redundant SMT pads prevent peeling
- Side by side stackable with pads on 4mm centers
- Tape and reel packaging for high speed SMT and Thru Hole processing
- RoHS compliant
- Cost effective alternative to hand soldering wires to printed circuit boards

DESCRIPTION

The low profile SMT and Thru-Hole Poke-In Wire connectors are designed for lighting applications

Available in surface mount and thru-hole tape and reel packaging, the connectors are designed to accept a wide range of wire sizes and types

APPLICATIONS

LED Lighting Controls

General illumination LED fixtures

Interconnecting strings of printed circuit LED light modules

Various non-lighting applications that require attaching flying leads to printed circuit boards

ELECTRICAL

250VAC / 5A

250VDC / 5A

1500VAC dielectric withstanding voltage

MECHANICAL

Operating Temperature: -40° to +105° C

Wire Retention: 5 lbs minimum

MATERIALS

Housing: UL 94 VO rated high temperature resistant thermoplastic

Contacts: Tin over nickel plated copper alloy

STANDARDS & SPECS

- Standard Product Application Specification: 114-13194
- Standard Product Design Objectives (Product Specification) 108-2284
- Low Insertion Force Application Specification: 114-13226
- Low Insertion Force Design Objectives (Product Specification) 108-2284-1

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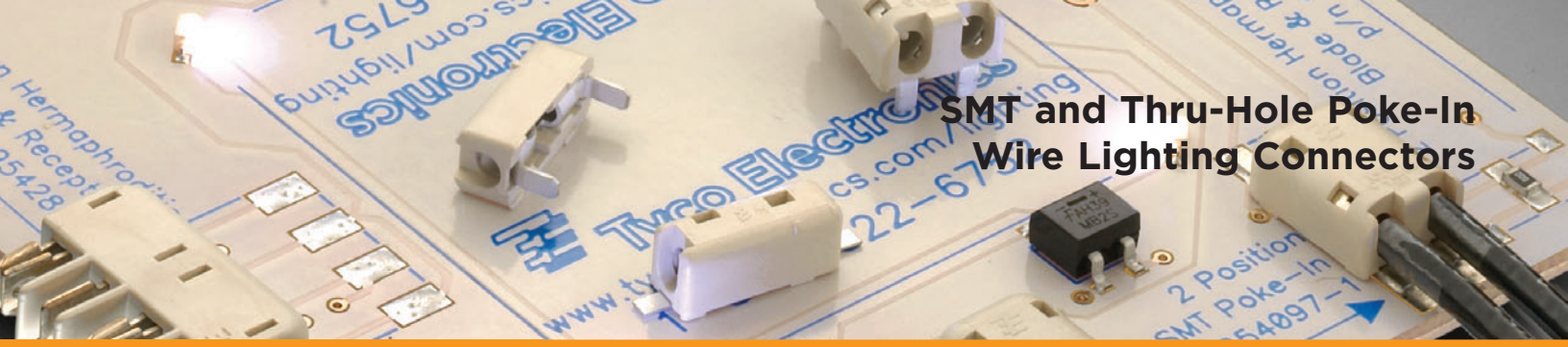

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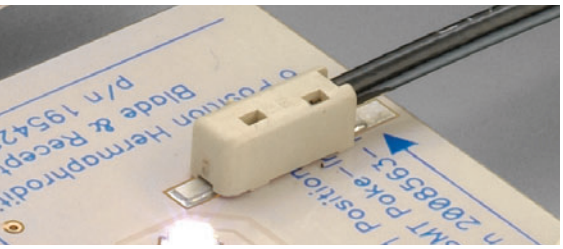
PRODUCT OFFERING



Standard Product Offering:
- 1 Position SMT: 2008563-1
- 1 Position SMT: 2008563-2 (Color: Black)
- 2 Position SMT: 1954097-1
- 1 Position Thru-Hole: 2008839-1
- 2 Position Thru-Hole: 2008106-1

Wire Sizes:
- 18, 20 and 22 AWG Solid
- 18 & 20 AWG Pre-bond Stranded
- 18 AWG Stranded (16 Strands Only)

Low Insertion Force Product Offering:
- 1 Position SMT: 2008683-1
- 1 Position SMT: 1-2008683-1 (Color: Black)
- 2 Position SMT: 2008683-2
- 2 Position SMT: 1-2008683-2 (Color: Black)
- 1 Position Thru-Hole: 2008683-3
- 1 Position Thru-Hole: 1-2008683-3 (Color: Black)
- 2 Position Thru-Hole: 2008683-4
- 2 Position Thru-Hole: 1-2008683-4 (Color: Black)

Wire Sizes:
- 18 and 20 AWG Solid
- 18 & 20 AWG Pre-bond Stranded
- 18 AWG Stranded (7, 9 & 16 Strands Only)

Standard Gel-Filled Product Offering:
- 1 Position SMT: 2008994-1
- 2 Position SMT: 1954785-1
- 1 Position Thru-Hole: 2008995-1
- 2 Position Thru-Hole: 2008996-1

Wire Sizes:
- 18, 20 and 22 AWG Solid
- 18 & 20 AWG Pre-bond Stranded
- 18 AWG Stranded (16 Strands Only)

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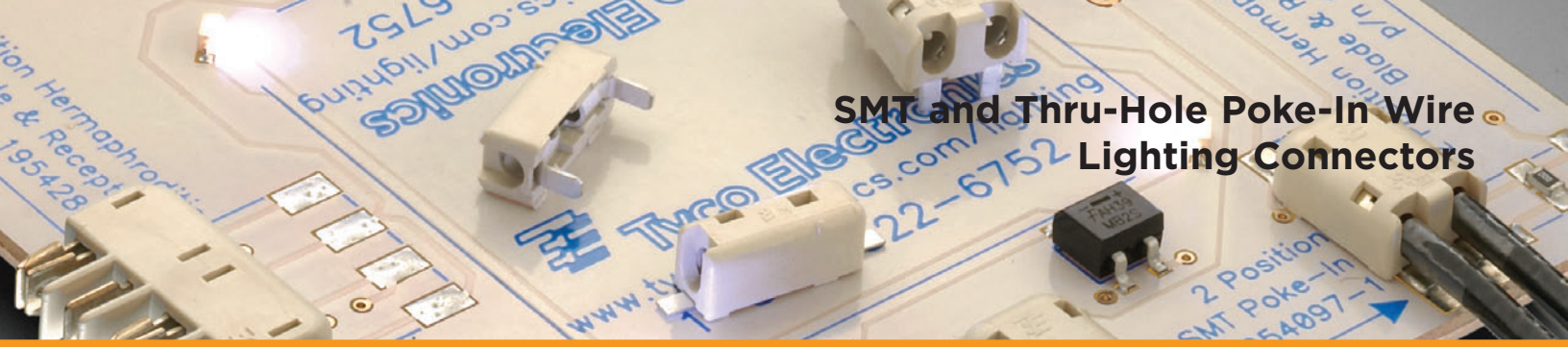
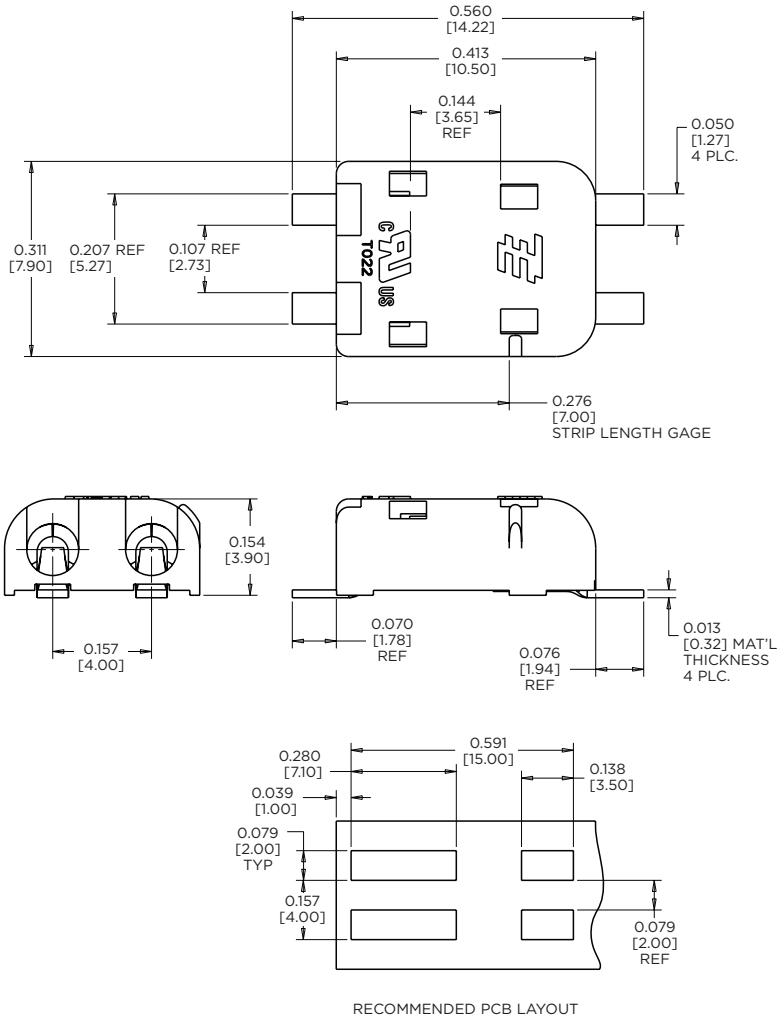


SMT and Thru-Hole Poke-In Wire Lighting Connectors

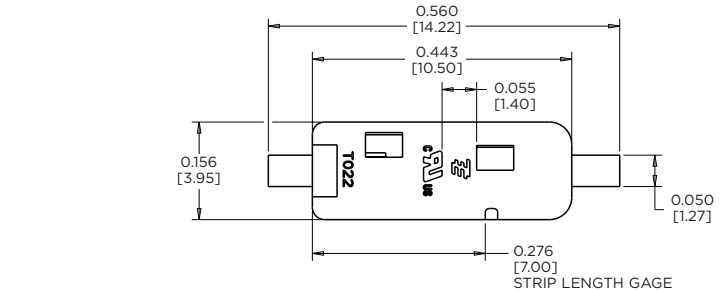
PRODUCT DIMENSIONS

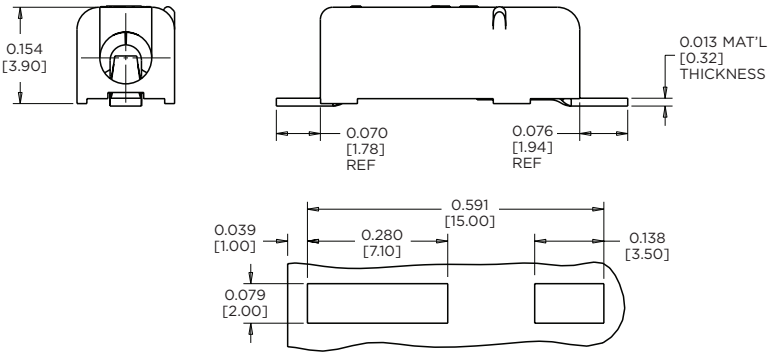
2 Position SMT
Part No. 1954097-1



RECOMMENDED PCB LAYOUT

1 Position SMT
Part No. 2008563-1





RECOMMENDED PCB LAYOUT

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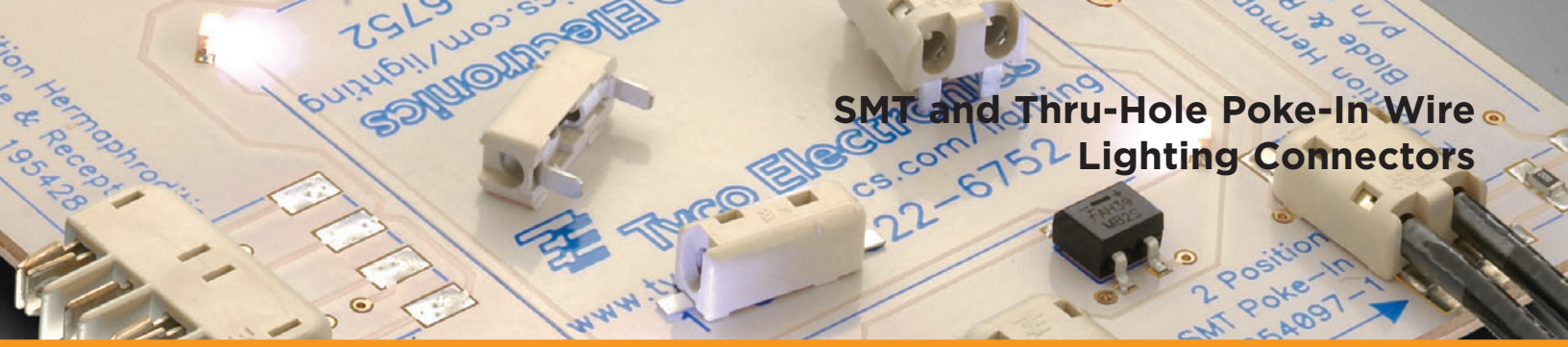
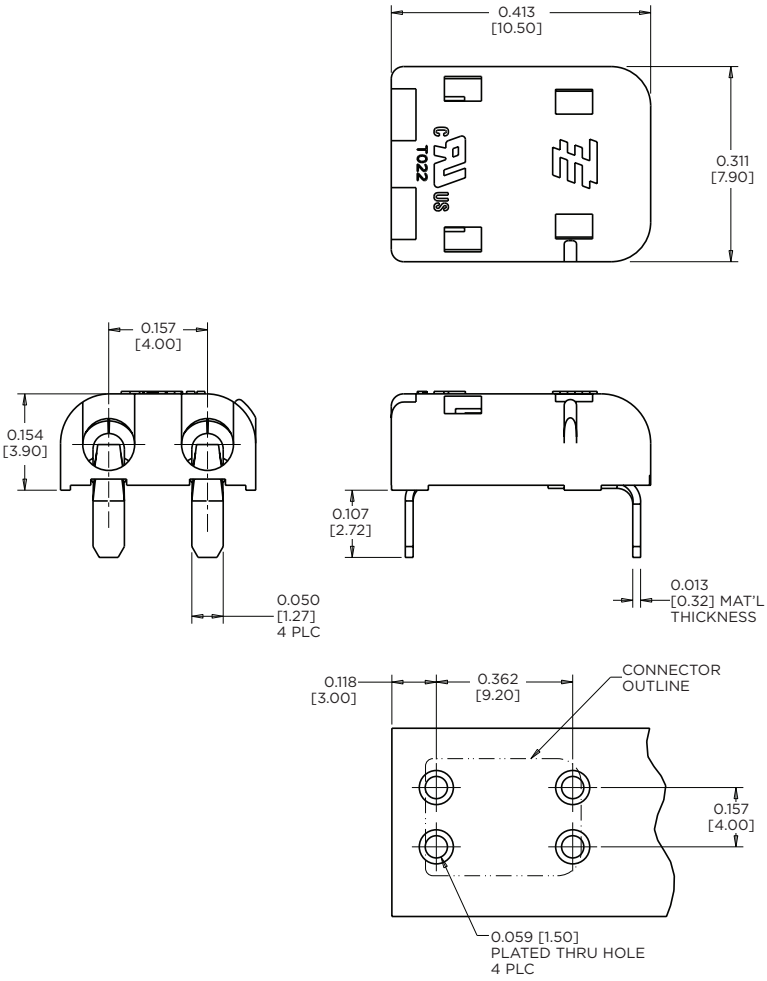


SMT and Thru-Hole Poke-In Wire Lighting Connectors

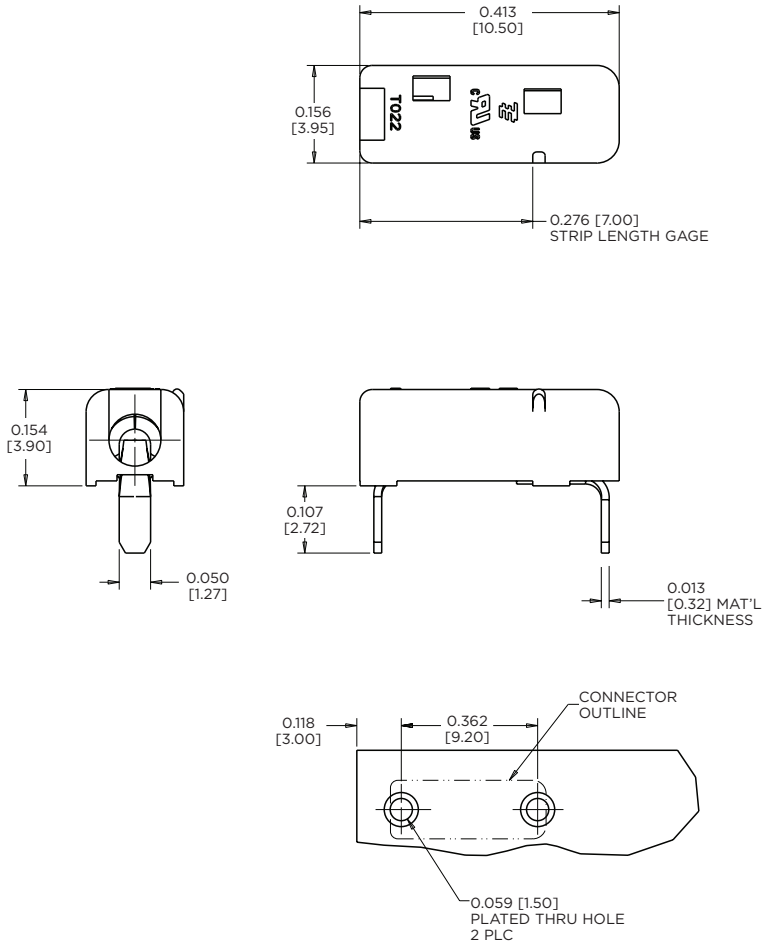
PRODUCT DIMENSIONS

2 Position Thru-Hole
Part No. 2008106-1



RECOMMENDED PCB LAYOUT

1 Position Thru-Hole
Part No. 2008839-1



RECOMMENDED PCB LAYOUT

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FOR MORE INFORMATION

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