

**Introducing**  
Hermaphroditic Blade and  
Receptacle Connector  
**Wire-to-Board, Board-to-Board and Dust Cover**

 **Tyco Electronics**  
Our commitment. Your advantage.

# Hermaphroditic Blade and Receptacle Connector : Wire-to-Board

## KEY FEATURES

- Available in 2, 4, and 6 positions
- Connector mates to new Hermaphroditic Blade and Receptacle Board-to-Board part numbers
- Positive Latching
- Connector accepts crimp snap contacts
- Contacts accept 18 – 22 AWG stranded wire
- Contacts packaged on 24 inch reels for high speed lead termination
- Housings are bulk packaged
- RoHS compliant

## DESCRIPTIONS

The Wire-to-Board connector is a new plug connector that mates to the new part number series of the surface mount Hermaphroditic Blade and Receptacle board to board connectors. The connector provides power to the first LED printed circuit board in a string of rigid printed circuit board light strips.

## APPLICATIONS

LED Lighting Controls

LED Lighting Strips

Channel Lettering

## ELECTRICAL

Operating Current : 6 AMPS

Operating Voltage : 125VAC/125VDC

Dielectric Withstanding Voltage : 1500VAC

## MECHANICAL

Operating Temperature : -40°C to +105°C

Mating cycles : 10

## MATERIALS

Housings : UL 94 V-0

Contacts : Tin plated brass

## STANDARDS AND SPECIFICATIONS

**114-13252** : Wire-to-Board Application Specification

**108-2387** : Wire-to-Board Product Specification

## APPLICATION TOOLING

**2063778-1** : PRO-CRIMPER III Hand Tool (includes die set)

**2063778-2** : Die Set for Hand Tool

**1852817-1** : Leadmaker Applicator

**1852817-2** : AMP-O-LECTRIC "K" Press Applicator

**1852817-3** : AMP-O-LECTRIC "G" Press Applicator

For more information visit : <http://tooling.tycoelectronics.com>

# Hermaphroditic Blade and Receptacle Connector Wire-to-Board

## PRODUCT OFFERING AND DIMENSIONS



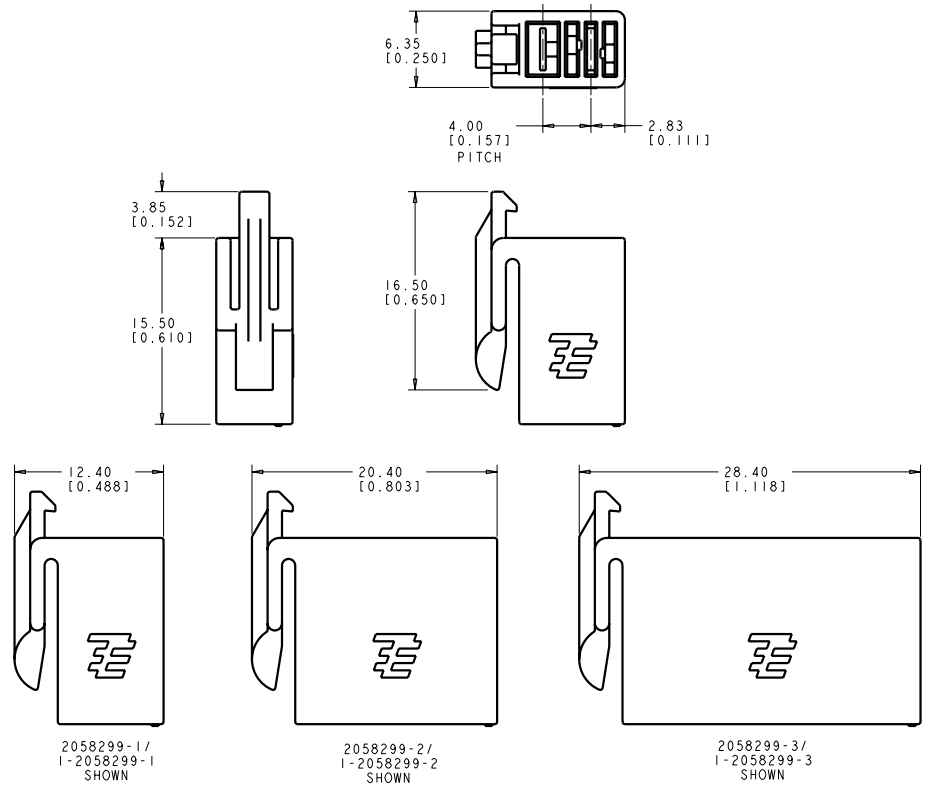
### Wire-to-Board

#### Housings

Part Number	POSITION	COLOR
2058299-1	2	Natural
2058299-2	4	Natural
2058299-3	6	Natural
1-2058299-1	2	Black
1-2058299-2	4	Black
1-2058299-3	6	Black

#### Contacts

2058301-1	Blade Contact
2058301-2	Blade Contact - Loose Piece
2058302-1	Socket Contact
2058302-2	Socket Contact - Loose Piece



# Hermaphroditic Blade and Receptacle Connector : Board-to-Board

## KEY FEATURES

- Available in 2, 4, and 6 positions
- Connector mates to itself
- Single part to be stocked and placed onto pcb per position
- Connector mates and unmates horizontally and vertically
- Connector can be articulated from 90° to 180°
- Tape and reel packed for high speed SMT processes
- Low profile flat surface is compatible with SMT and reflow processing
- Rounded corners to minimize shadowing
- Redundant SMT pads
- Solder pad footprint compatible with Tyco Electronics SMT Poke-In LED connector
- Optional 2, 4 and 6 position dust cover available
- RoHS compliant

## DESCRIPTIONS

The hermaphroditic blade and receptacle connector is a new SMT connector and is intended for use with in-line board-to-board applications.

## APPLICATIONS

LED Lighting Controls, LED Lighting Strips, Channel Lettering

## ELECTRICAL

Operating Current : 6 AMPS

Operating Voltage : 125VAC/125VDC

Dielectric Withstanding Voltage : 1500VAC

## MECHANICAL

Operating Temperature : -40°C to +105°C

## MATERIALS

Housings : UL 94V-0 high temperature resistant thermoplastic

Contacts : Copper Alloy, tin over nickel plated

Dust Cover : PBT

## STANDARDS AND SPECIFICATIONS

**114-13225** : Board-to-Board Application Specification

**108-2342** : Board-to-Board Design Objectives

UL and cUL Recognized, File No. E28476

## PRODUCT OFFERING

### Blade and Receptacle SMT Connectors

Part Number	POSITION	COLOR
<b>2058703-1</b>	2	White
<b>2058703-2</b>	4	White
<b>2058703-3</b>	6	White
<b>1-2058703-1</b>	2	Black
<b>1-2058703-2</b>	4	Black
<b>1-2058703-3</b>	6	Black

### Dust Cover

Part Number	POSITION	COLOR
<b>2058128-1</b>	2	Natural
<b>2058128-2</b>	4	Natural
<b>2058128-3</b>	6	Natural

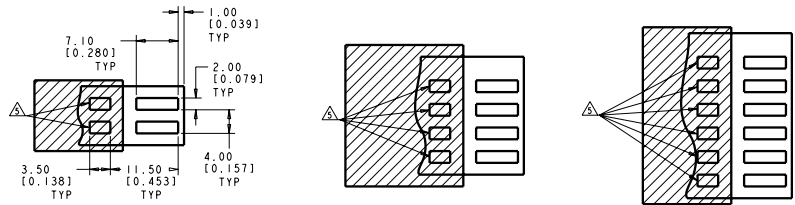


# Hermaphroditic Blade and Receptacle Connector Board-to-Board

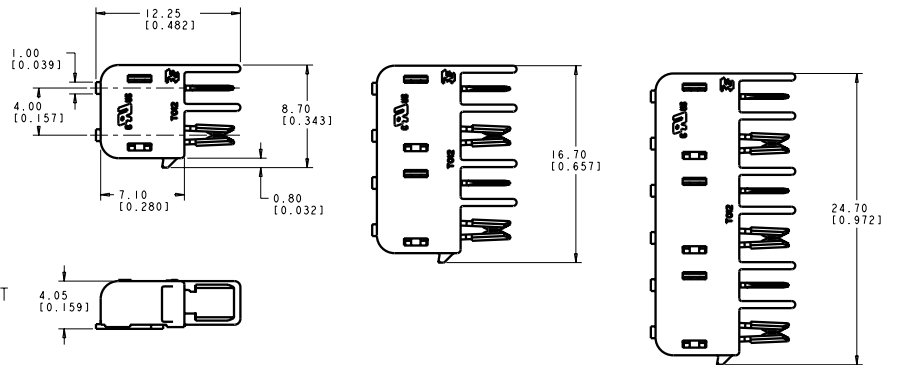
## PRODUCT DIMENSIONS



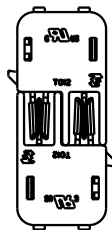
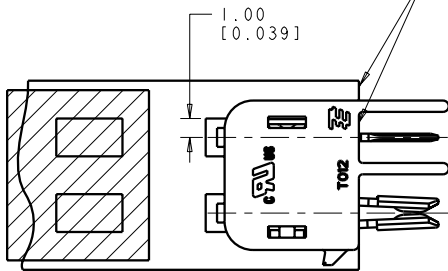
### Board-to-Board



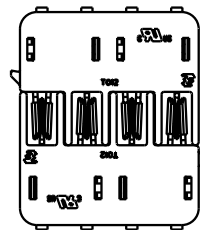
\* Optional pads for SMT poke-in connector for P/N 1954097-1



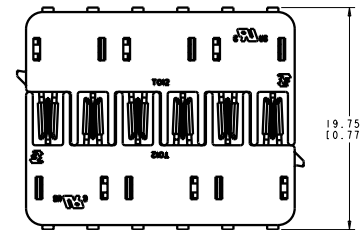
0.13 [0.005] MAX PERMISSIBLE MISALIGNMENT BETWEEN BOARD EDGE AND CONNECTOR FACE



2058703-1/  
1-2058703-1



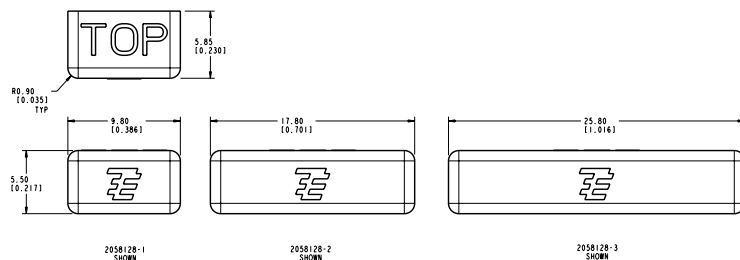
2058703-2/  
1-2058703-2



2058703-3/  
1-2058703-3

R

### Dust Cover



2058128-1  
SHOWN

2058128-2  
SHOWN

2058128-3  
SHOWN

## FOR MORE INFORMATION

[www.tycoelectronics.com/lighting](http://www.tycoelectronics.com/lighting)

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