

70-9159



AVX's latest approach is to not even have a connector! LED's run down the center of the board looking to minimize pitch densities to maximize light output. Connectors interrupt this requirement at each Board-to-Board interface. By design and construction, providing a single contact connector is not economical. However, removing the cost of the connector without removing the functionality provides both a technical and cost effective solution. By removing the insulator and allowing contacts to be placed individually, the PCB can be designed with the LED's in the center of the PCB and the contacts on the outer edges. This optimizes the design for functionality and assembly at the best cost possible. More specifically, the contacts are packaged in T&R for automatic placement, absorb significant x and y assembly tolerances and provide a reliable gold-to-gold active contact interface. Application notes are available to outline all of the contact configurations to support both BTB and WTB applications.

- Linear LED strip lighting
- Commercial/Industrial co-planar or extended card applications
- Reference Product Specification 201-01-149

- Gold plated horizontal contact system maximizes lateral PCB alignment and mating tolerances with a proven 2-pc connector solution
- Contact height has been minimized to 1.2mm above the PCB to prevent any shadowing effect
- Contacts can be individually spaced to support any voltage rating with a full 5 Amp current rating
- Individual contacts can support BTB and WTB applications

- Current Rating: 5.0 Amps
- Voltage Rating: UL 300V

Based on placement distance

- Operating Temperature: -40°C to +125°C

- Contact Material: Copper Alloy
- Plug Plating: Gold in mating area, tin on tails
- Socket Contact; Gold all over
- Durability 5 Cycles

70 **9159** **001**
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Prefix **Series** **Number of Ways**
 001 = 1

Contact Description
401 = Plug - SMT
402 = Socket - SMT
411 = Plug - SMT - Locking

Packaging Options

006 = Gold in Contact Area

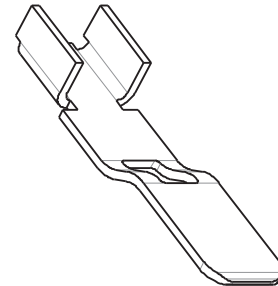
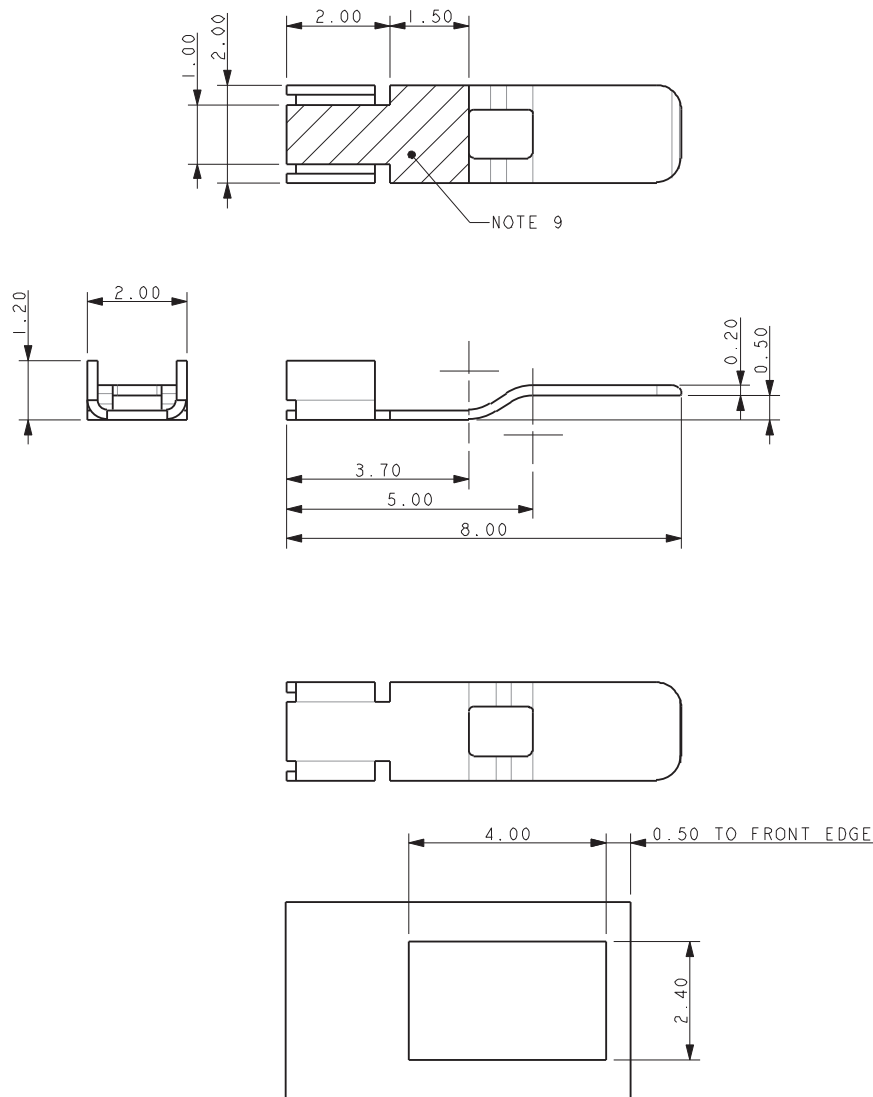


AVX

Single 2 Piece Contacts: BTB

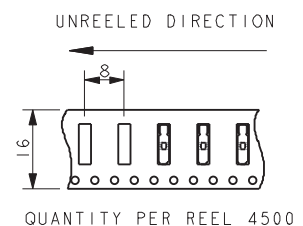
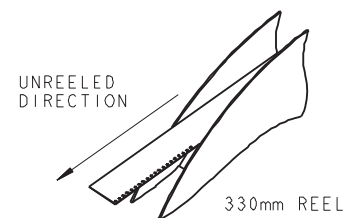
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70-9159-001-401-006



SUGGESTED PCB LAYOUT

PACKING DETAILS



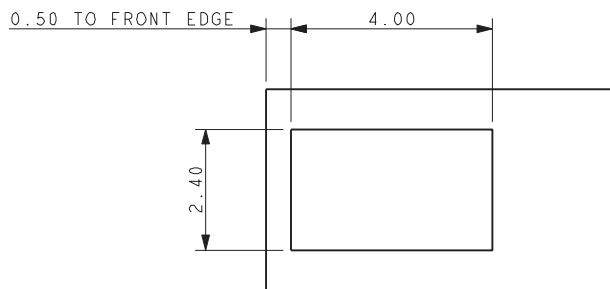
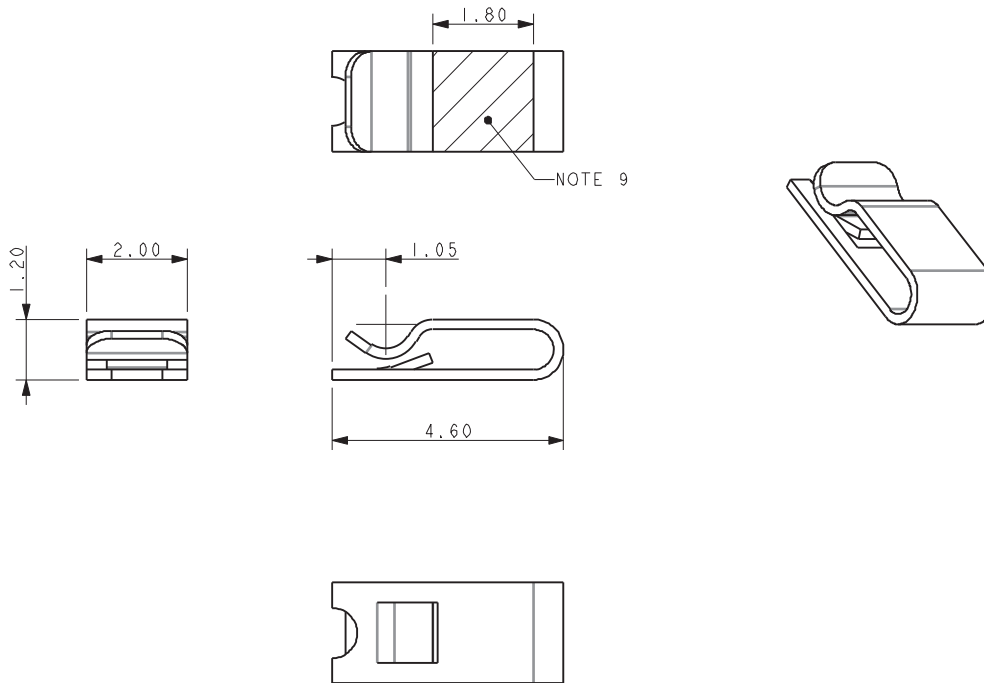
NOTES:

1. 9159 SINGLE CONTACT, SMT MOUNT, PLUG CONTACT.
2. TO MATE WITH 70-9159-001-402-006 SOCKET CONTACT, REFER TO PAGE 67.
3. TYPICAL APPLICATIONS SEE PAGES 69 AND 70.
4. FOR FURTHER INFORMATION REFER TO SPECIFICATION 201-01-148 AND APPLICATION NOTES 201-01-149.
5. COPPER ALLOY, NICKEL UNDERCOAT, GOLD IN CONTACT AREA. TIN ON SOLDER TAIL.
6. GENERAL TOLERANCE ± 0.20 UNLESS SPECIFIED.
7. PACKAGING IN TAPE AND REEL, QUANTITY PER REEL 4500.
8. UL REFERENCE E90723 (US AND CANADA).
9. AREA AVAILABLE FOR PICK AND PLACE.

Single 2 Piece Contacts: BTB

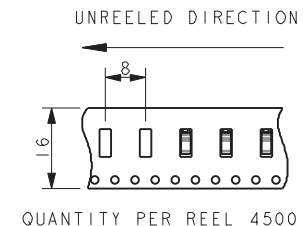
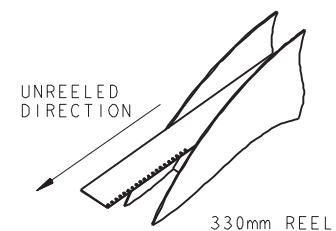
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70-9159-001-402-006



SUGGESTED PCB LAYOUT

PACKING DETAILS



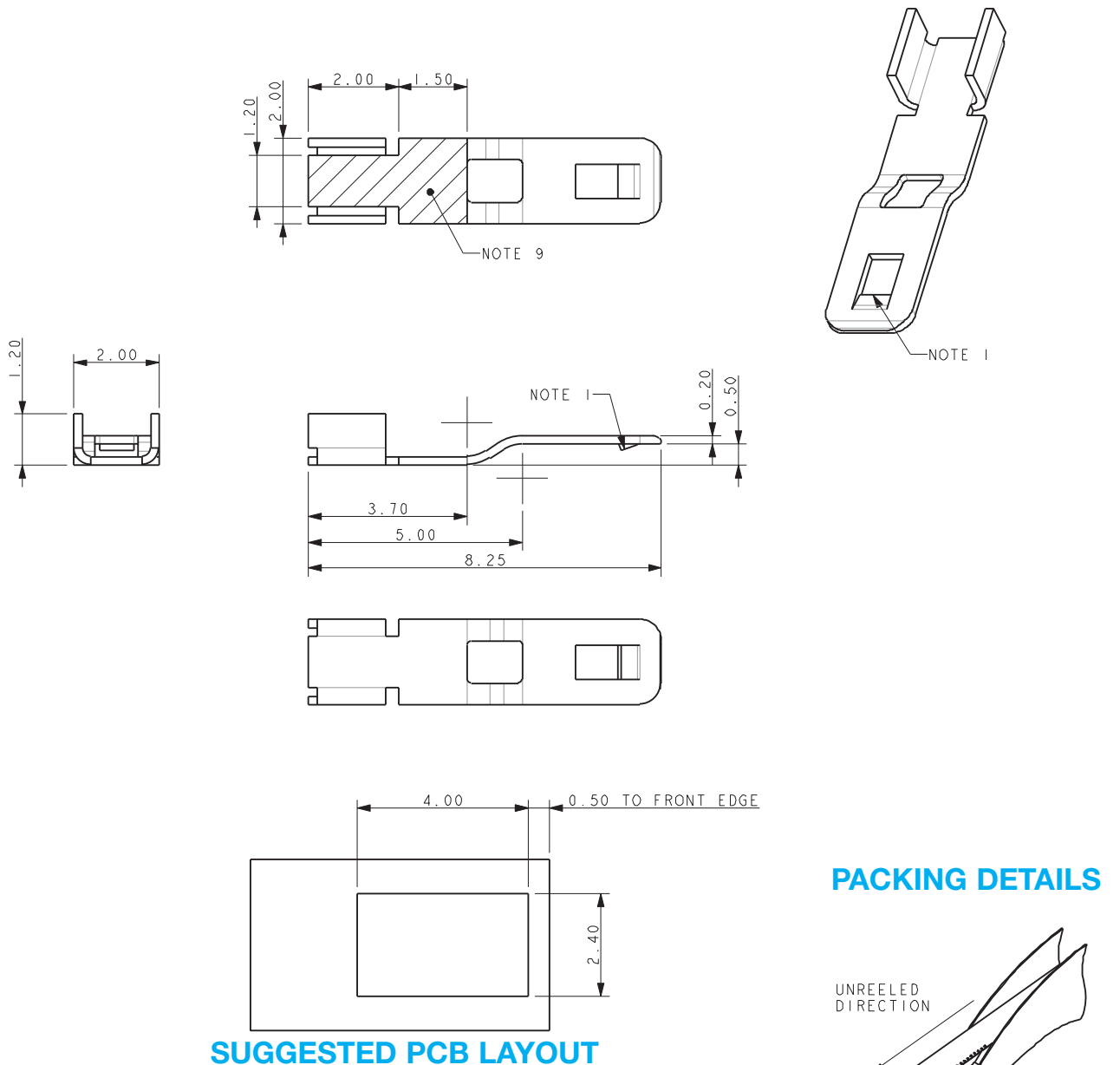
NOTES:

1. 9159 SINGLE CONTACT, SMT MOUNT, SOCKET CONTACT.
2. TO MATE WITH 70-9159-001-401-006 PLUG CONTACT, REFER TO PAGE 66 AND LOCKING PLUG CONTACT 70-9159-001-411-006 PAGE 68.
3. TYPICAL APPLICATIONS SEE PAGES 69 AND 70.
4. FOR FURTHER INFORMATION REFER TO SPECIFICATION 201-01-148 AND APPLICATION NOTES 201-01-149.
5. COPPER ALLOY, NICKEL UNDERCOAT, GOLD PLATED.
6. GENERAL TOLERANCE ± 0.20 UNLESS SPECIFIED.
7. PACKAGING IN TAPE AND REEL, QUANTITY PER REEL 4500.
8. UL REFERENCE E90723 (US AND CANADA).
9. AREA AVAILABLE FOR PICK AND PLACE.

Single 2 Piece Contacts: BTB

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70-9159-001-411-006 LOCKING PLUG CONTACT



NOTES:

1. 9159 SINGLE CONTACT, SMT MOUNT, PLUG CONTACT. LOCKING FEATURE WILL ASSIST IN MAINTAINING THE POSITION.
2. TO MATE WITH 70-9159-001-402-006 SOCKET CONTACT, REFER TO PAGE 67.
3. TYPICAL APPLICATIONS SEE PAGES 69 AND 70.
4. FOR FURTHER INFORMATION REFER TO SPECIFICATION 201-01-148 AND APPLICATION NOTES 201-01-149.
5. COPPER ALLOY, NICKEL UNDERCOAT, GOLD IN CONTACT AREA. TIN ON SOLDER TAIL.
6. GENERAL TOLERANCE ± 0.20 UNLESS SPECIFIED.
7. PACKAGING IN TAPE AND REEL, QUANTITY PER REEL 4500.
8. THIS VERSION OF CONTACT IS NOT CURRENTLY UL APPROVED.
9. AREA AVAILABLE FOR PICK AND PLACE.

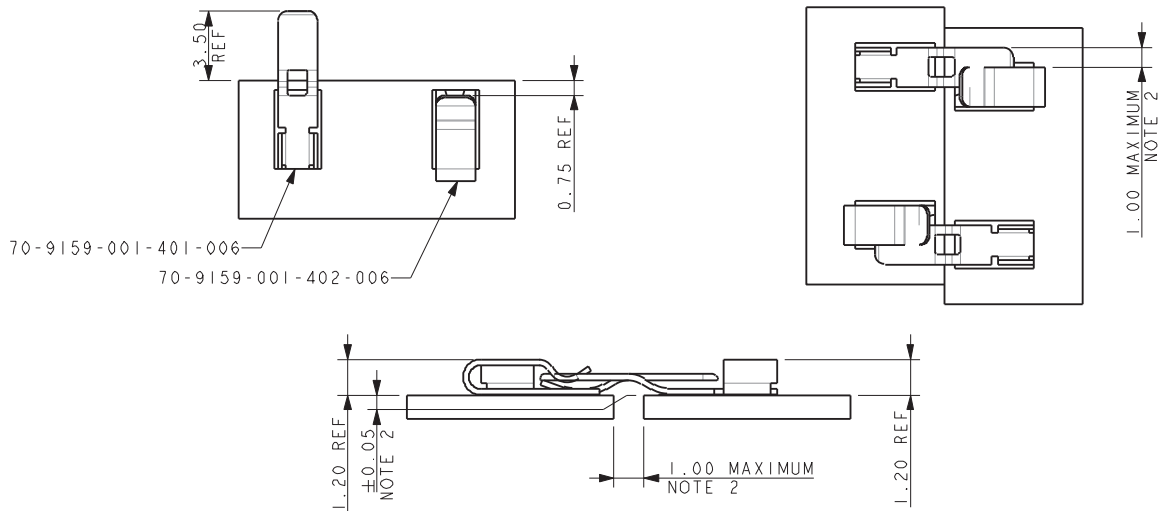
Single 2 Piece Contacts: BTB

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70-9159-001-4XX-006 – CONTACT SOLDER TOLERANCE

STANDARD CONTACT

70-9159-001-401-006 Plus 70-9159-001-402-006

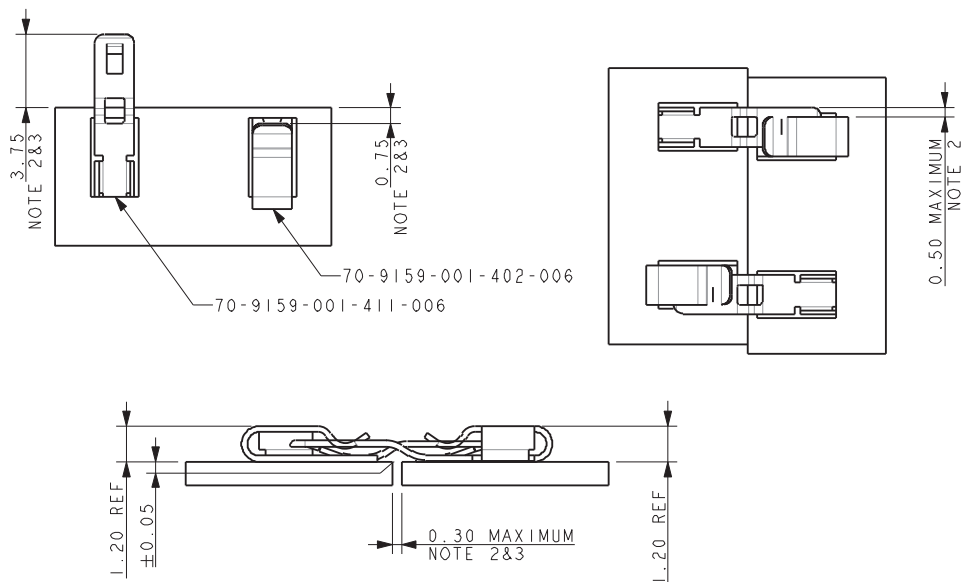


NOTES:

1. SIMPLE BOARD TO BOARD ASSEMBLY.
2. CONTACTS (70-9159-001-401-006) WILL COPE WITH A GAP BETWEEN BOARDS UP TO 1.00MM AND/OR A SIDWAYS MISALIGNMENT OF UP TO 1.00MM WITHOUT LOSS OF PERFORMANCE. VERTICAL MISALIGNMENT MUST HOWEVER BE KEPT TO WITHIN ± 0.05 .

LOCKING CONTACT

70-9159-001-411-006 Plus 70-9159-001-402-006



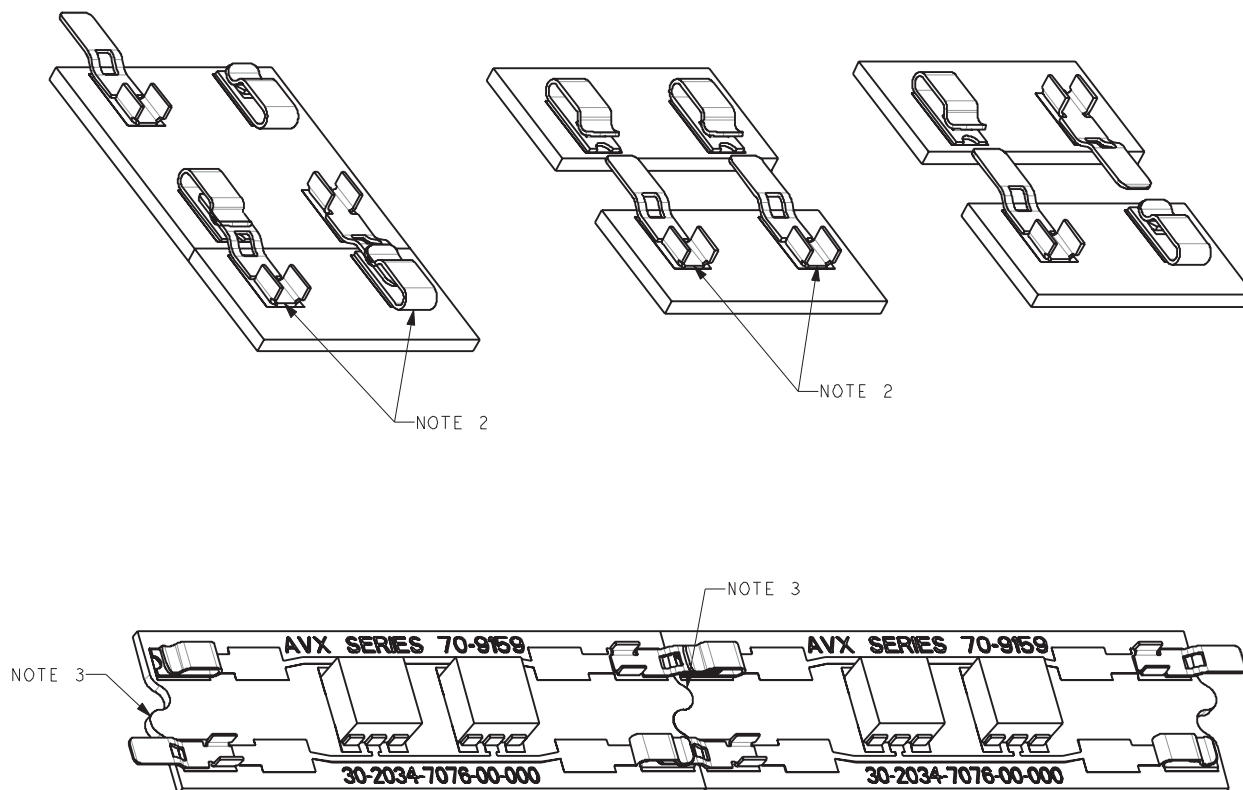
NOTES:

1. LOCKING BOARD TO BOARD ASSEMBLY.
2. CONTACT LOCKING (70-9159-001-411-006) WILL COPE WITH A GAP BETWEEN BOARDS UP TO 0.30MM WITH THE CONTACTS SOLDERED IN POSITIONS SHOWN THE SIDEWAYS MISALIGNMENT CAN BE UP TO 0.50MM WITHOUT LOSS OF PERFORMANCE. VERTICAL MISALIGNMENT MUST HOWEVER BE KEPT TO WITHIN ± 0.05 .
3. IF FOR EXAMPLE THE CONTACT PORTIONS ARE CHANGED TO 3.60MM AND 0.90MM RESPECTIVELY.

Single 2 Piece Contacts: BTB

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70-9159-001-40X-006 BOARD TO BOARD ASSEMBLY



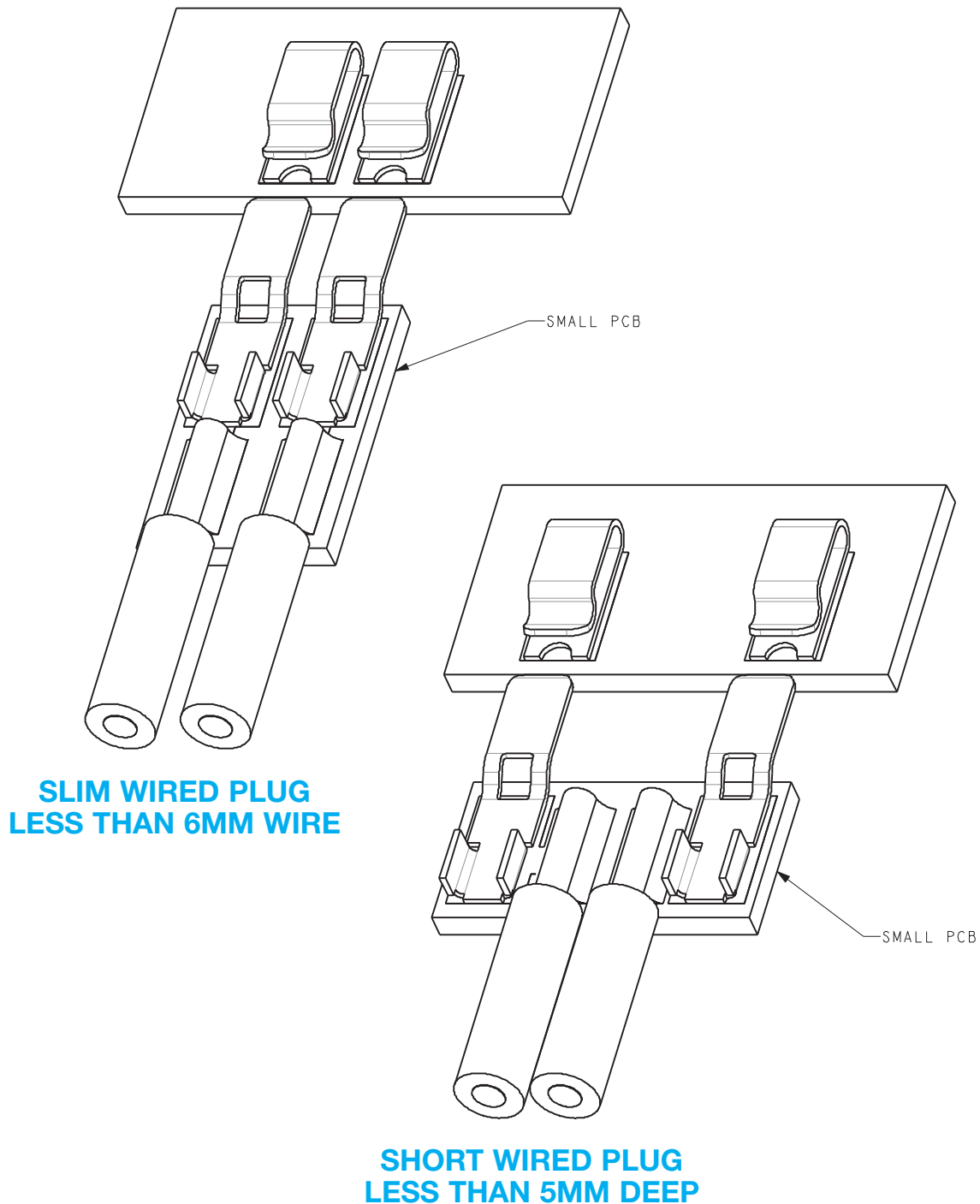
NOTES:

1. SIMPLE BOARD TO BOARD LINK.
2. ALL MATING COMBINATIONS PERMISSIBLE. FOR EXAMPLE BY USING ONE PLUG AND ONE SOCKET CONTACT THE BOARD ENDS ARE REVEALABLE.
3. FEATURES CAN BE ADDED TO BOARD ENDS TO RESIST SIDEWAYS MOVEMENT.

Single 2 Piece Contacts: BTB

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70-9159-001-40X-006 SIMPLE COMPACT WIRED PLUG ASSEMBLIES



NOTES:

1. SIMPLE BUILT UP ASSEMBLY
2. CONTACTS CAN BE USED WITH A SUITABLE PCB DESIGN FOR CUSTOMER BUILT SMALL CABLE ASSEMBLIES.
3. TWO WAY PLUG CONNECTIONS SHOWN BUT ANY COMBINATION POSSIBLE.



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