TE connectivity

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1375795-1 Product Details

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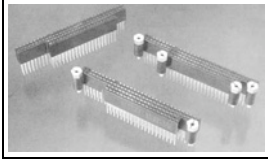
1375795-1

TE Internal Number: 1375795-1

✔ Active

📄 **View 3D PDF**

PC/104 and PC/104 Plus

🍃 Always EU RoHS/ELV Compliant (Statement of Compliance)

Product Highlights:
- Connector
- 104 Positions
- 102 Loaded Positions
- Contact Configuration = Stackthrough
- 2.54 mm Centerline

View all Features

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Documentation & Additional Information

Product Drawings:
- ASSEMBLY, PC/104, STACKTHROUGH CONTACTS, PRESS FIT (PDF, English)

Catalog Pages/Data Sheets:
- AMPMODU_INTERCONNECTION_SYSTEM_SECTION1AND2 (PDF, English)

Product Specifications:
- PC/104 and PC/104-Plus Connector Systems (PDF, English)

Application Specifications:
- PC/104 and PC/104-Plus Connectors (PDF, English)

Instruction Sheets:
- None Available

CAD Files: (CAD Format & Compression Information)
- 2D Drawing (DXF, Version H)
- 3D Model (IGES, Version H)
- 3D Model (STEP, Version H)

Additional Information:
- Product Line Information

Related Products:
- Tooling

List all Documents

Product Features (Please use the Product Drawing for all design activity)

Product Type Features:
- Product Type = Connector
- Keyed = Yes
- PCB Mount Style = Through Hole Press Fit
- PCB Mount Retention Type = Action/Compliant Tail
- Board Standoff = Without
- Gender = Receptacle

Electrical Characteristics:
- Signal Contact Current (A) = 3
- Insulation Resistance (MΩ) = 1,000
- Dielectric Withstanding Voltage (V) = 500

Termination Features:
- Termination Post Length (mm [in]) = 12.27 [0.483]

Contact Features:
- Contact Configuration = Stackthrough
- Contact Base Material = Phosphor Bronze
- Contact Plating, Mating Area, Material = Gold

Housing Features:
- Centerline (mm [in]) = 2.54 [0.100]
- Housing Material = Nylon
- Housing Color = Black
- UL Flammability Rating = UL 94V-0

Configuration Features:
- Number of Positions = 104
- Number of Loaded Positions = 102

Industry Standards:
- RoHS/ELV Compliance = RoHS compliant, ELV compliant
- Lead Free Solder Processes = Not relevant for lead free process
- RoHS/ELV Compliance History = Always was RoHS compliant

Identification Marking:
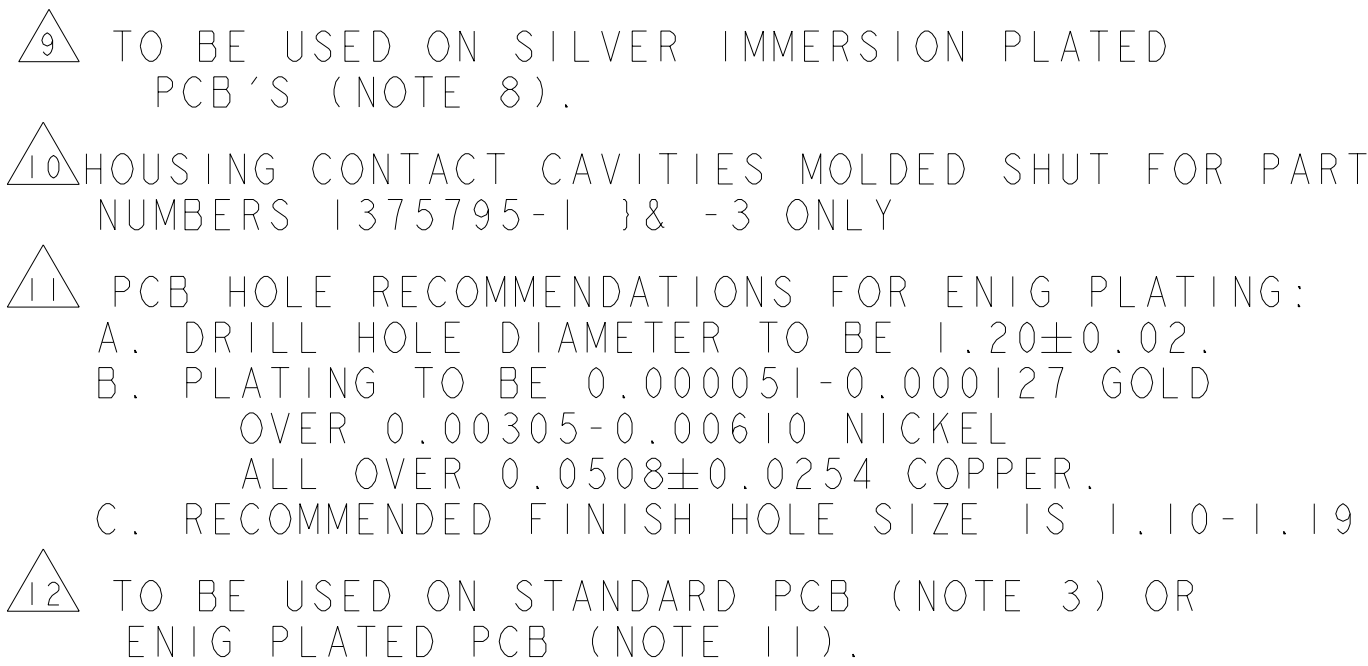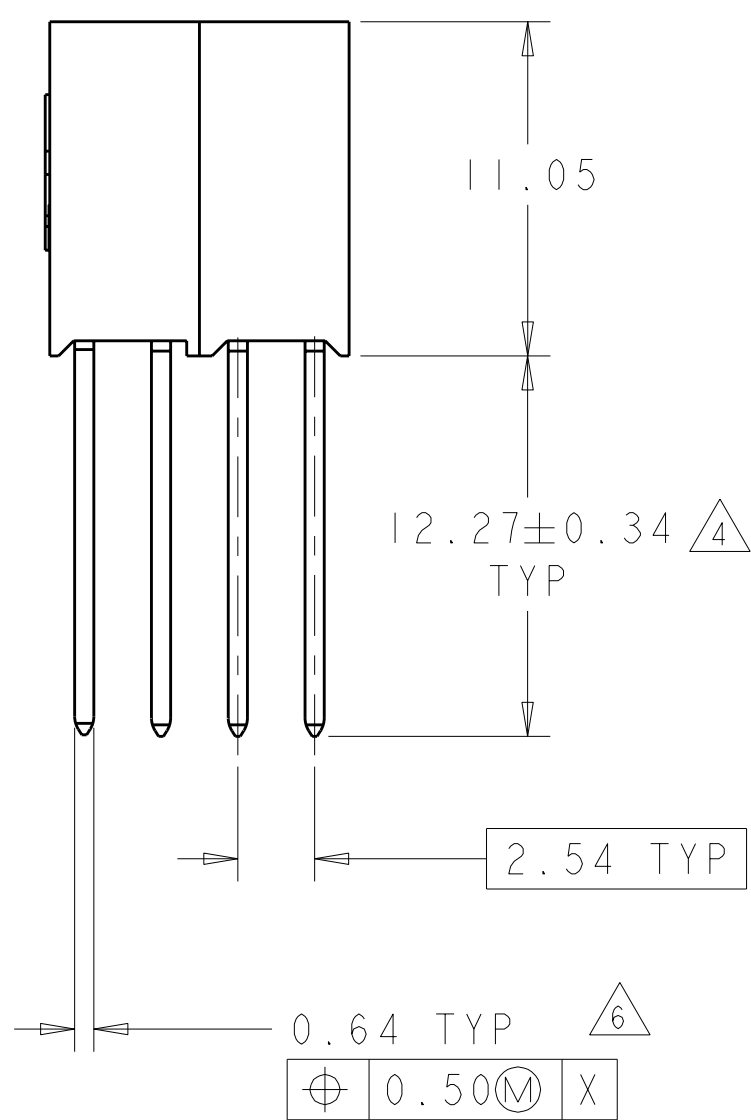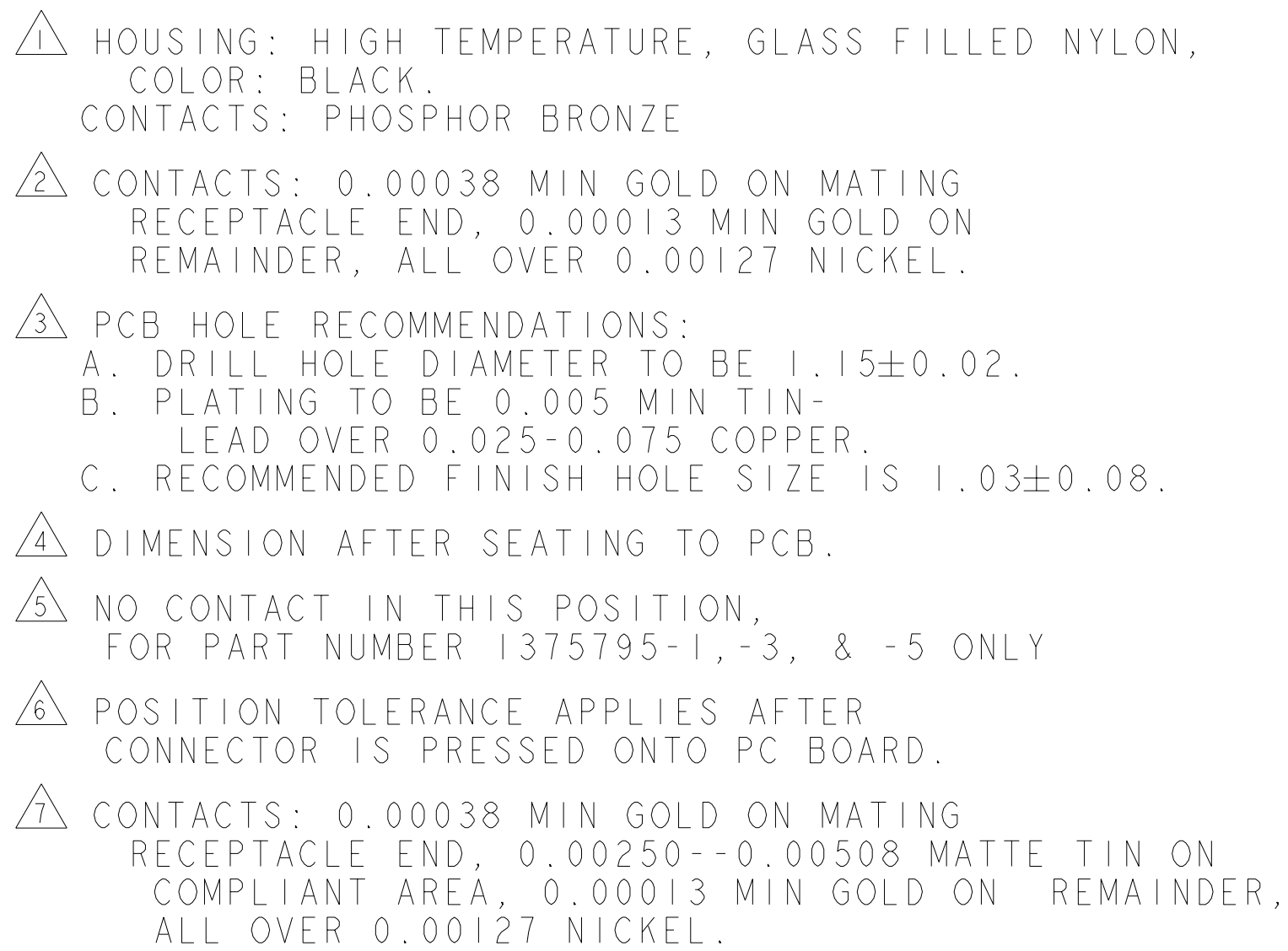- Keyed Position = B-10, C-19

Conditions for Usage:
- Temperature Range (°C) = -55 – +105

Other:
- Brand = AMP
- Comment = See Specific Info Link for information on a PC/104 Extraction Tool.; "Flat-rock" insertable

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81.60

51.11

4.95 TYP

9.90

5 / 10

5 / 10

HOUSING

⚠ HOUSING: HIGH TEMPERATURE, GLASS FILLED NYLON,
   COLOR: BLACK.
   CONTACTS: PHOSPHOR BRONZE

⚠2 CONTACTS: 0.00038 MIN GOLD ON MATING
   RECEPTACLE END, 0.00013 MIN GOLD ON
   REMAINDER, ALL OVER 0.00127 NICKEL.

⚠3 PCB HOLE RECOMMENDATIONS:
   A. DRILL HOLE DIAMETER TO BE 1.15±0.02.
   B. PLATING TO BE 0.005 MIN TIN-
      LEAD OVER 0.025-0.075 COPPER.
   C. RECOMMENDED FINISH HOLE SIZE IS 1.03±0.08.

⚠4 DIMENSION AFTER SEATING TO PCB.

⚠5 NO CONTACT IN THIS POSITION,
   FOR PART NUMBER 1375795-1,-3, & -5 ONLY

⚠6 POSITION TOLERANCE APPLIES AFTER
   CONNECTOR IS PRESSED ONTO PC BOARD.

⚠7 CONTACTS: 0.00038 MIN GOLD ON MATING
   RECEPTACLE END, 0.00250--0.00508 MATTE TIN ON
   COMPLIANT AREA, 0.00013 MIN GOLD ON REMAINDER,
   ALL OVER 0.00127 NICKEL.

⚠8 PCB HOLE RECOMMENDATIONS FOR SILVER
   IMMERSION PLATING:
   A. DRILL HOLE DIAMETER TO BE 1.20±0.02.
   B. PLATING TO BE 0.0001524-0.0004064 SILVER
      OVER 0.0508±0.0254 COPPER.
   C. RECOMMENDED FINISH HOLE SIZE IS 1.10-1.19.

⚠9 TO BE USED ON SILVER IMMERSION PLATED
   PCB'S (NOTE 8).

⚠10 HOUSING CONTACT CAVITIES MOLDED SHUT FOR PART
   NUMBERS 1375795-1 1& -3 ONLY

⚠11 PCB HOLE RECOMMENDATIONS FOR ENIG PLATING:
   A. DRILL HOLE DIAMETER TO BE 1.20±0.02.
   B. PLATING TO BE 0.000051-0.000127 GOLD
      OVER 0.00305-0.00610 NICKEL
      ALL OVER 0.0508±0.0254 COPPER.
   C. RECOMMENDED FINISH HOLE SIZE IS 1.10-1.19.

⚠12 TO BE USED ON STANDARD PCB (NOTE 3) OR
   ENIG PLATED PCB (NOTE 11).

-X-

cRUs   AMP
>PPA-GF30<

CONTACT TYP

11.05

12.27±0.34 ⚠4 TYP

2.54 TYP

0.64 SQ TYP ⚠6
⊕ | 0.50 Ⓜ | X

2.54 TYP

0.64 TYP ⚠6
⊕ | 0.50 Ⓜ | X

RECOMMENDED PCB LAYOUT
FOR 1375795-1 & -3

31 SPACES AT 2.54 = 78.74

3 SPACES AT
2.54 = 7.62

⚠3 ⚠8 ⚠11 HOLE DIA
⊕ | ∅0.10 Ⓜ |
102 PLC

RECOMMENDED PCB LAYOUT
FOR 1375795-2 ,-4 & -5

31 SPACES AT 2.54 = 78.74

3 SPACES AT
2.54 = 7.62

⚠3 ⚠8 ⚠11 HOLE DIA
⊕ | ∅0.10 Ⓜ |
104 PLC

4805 (3/11)
Pro/ENGINEER DRAWING