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## 5747840-4 Product Details

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5747840-4

TE Internal Number: 5747840-4

Active

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### Standard Board Mount Connectors



Always EU RoHS/ELV Compliant (Statement of Compliance)

#### Product Highlights:

- 9 Positions
- Connector Style = Plug
- PCB Mounting Orientation = Right Angle
- Product Series = HD 20
- With Mating Connector Lock

[View all Features](#)

### Quick Links

- [Pricing & Availability](#)
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### Documentation & Additional Information

#### Product Drawings:

- [PLUG ASSEMBLY, SIZE 1, 9 POS, RIGHT ANGLE, FRONT MET...](#) (PDF, English)

#### Catalog Pages/Data Sheets:

- [AMPLIMITE Subminiature D Connectors - Right-Angle Po...](#) (PDF, English)

#### Product Specifications:

- None Available

#### Application Specifications:

- None Available

#### Instruction Sheets:

- None Available

#### CAD Files: (CAD Format & Compression Information)

- [2D Drawing](#) (DXF, Version D)
- [3D Model](#) (IGES, Version D)
- [3D Model](#) (STEP, Version D)

#### Additional Information:

- [Product Line Information](#)

#### Related Products:

- [Tooling](#)
- [Mating Products \(18\)](#)

[List all Documents](#)

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

#### Product Type Features:

- [PCB Mounting Orientation](#) = Right Angle
- [Product Series](#) = HD 20
- [Mating Connector Lock](#) = With
- [Mating Connector Lock Type](#) = Threaded Insert, 4-40 UNC
- [PCB Mount Retention](#) = With
- [PCB Mount Retention Type](#) = Boardlock(s)
- [Shell Type](#) = Front Metal Shell
- [Shell Size](#) = 1
- [Footprint \(mm \[in\]\)](#) = 8.08 [.318]
- [Grounding Indents](#) = With
- [Grounding Straps](#) = With
- [PCB Mount Style](#) = Through Hole
- [Color Code](#) = None
- [Sealed](#) = No
- [Profile](#) = Standard
- [Post Size \(mm \[in\]\)](#) = 0.66 [.026]
- [Mounting Hole Diameter \(mm \[in\]\)](#) = 3.18 [.125]
- [Shell Material](#) = Steel
- [Threaded Insert Material](#) = Zinc
- [Eyelet Material](#) = Brass

#### Dimensions:

- [PCB Thickness, Recommended \(in \[mm\]\)](#) = 0.062 [1.57]

#### Body Features:

- [Shell Plating](#) = Tin
- [Threaded Insert Plating](#) = Clear Chromate
- [Eyelet Plating](#) = Tin over Copper Flash

#### Contact Features:

- [Contact Plating, Mating Area, Material](#) = Gold (30)
- [Contact Shape](#) = Round
- [Contact Base Material](#) = Brass

#### Housing Features:

- [Connector Style](#) = Plug
- [UL Flammability Rating](#) = UL 94V-0
- [Housing Material](#) = Thermoplastic - GF

#### Configuration Features:

- [Number of Positions](#) = 9

#### Industry Standards:

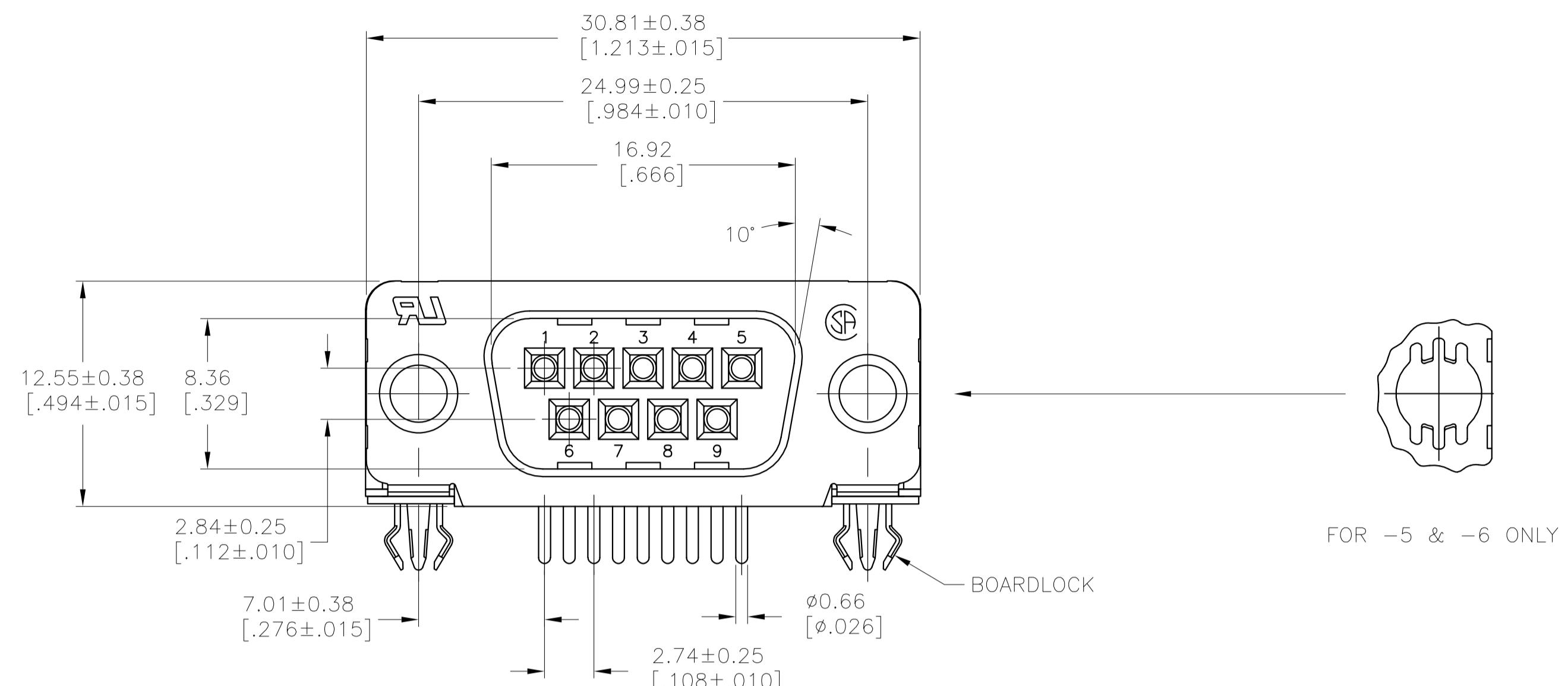
- [RoHS/ELV Compliance](#) = RoHS compliant, ELV compliant
- [Lead Free Solder Processes](#) = Wave solder capable to 260°C, Wave solder capable to 240°C, Wave solder capable to 265°C
- [RoHS/ELV Compliance History](#) = Always was RoHS compliant

#### Other:

- [Brand](#) = AMP
- [Comment](#) = Plugs are preloaded with size 20 DF posted pin contacts

#### Termination Features:

- [Grounding Clips](#) = Without
- [Termination Post Length \(mm \[in\]\)](#) = 3.18 [0.125]
- [Solder Tail Contact Plating](#) = Tin over Nickel

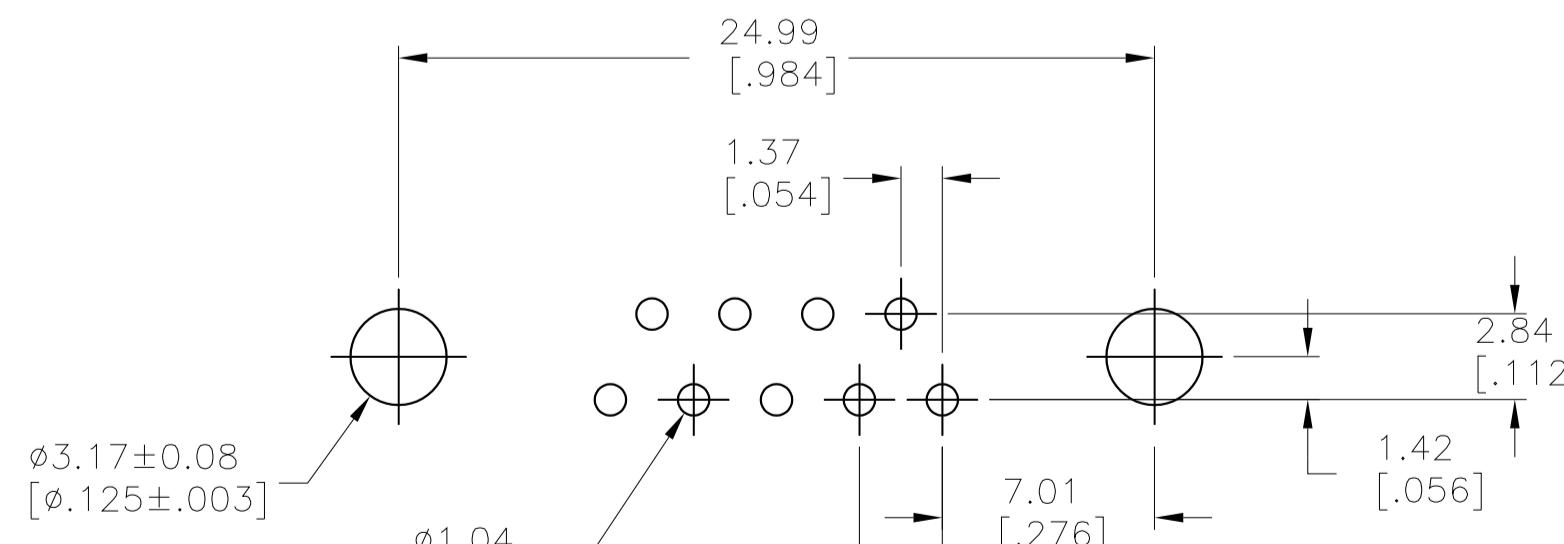
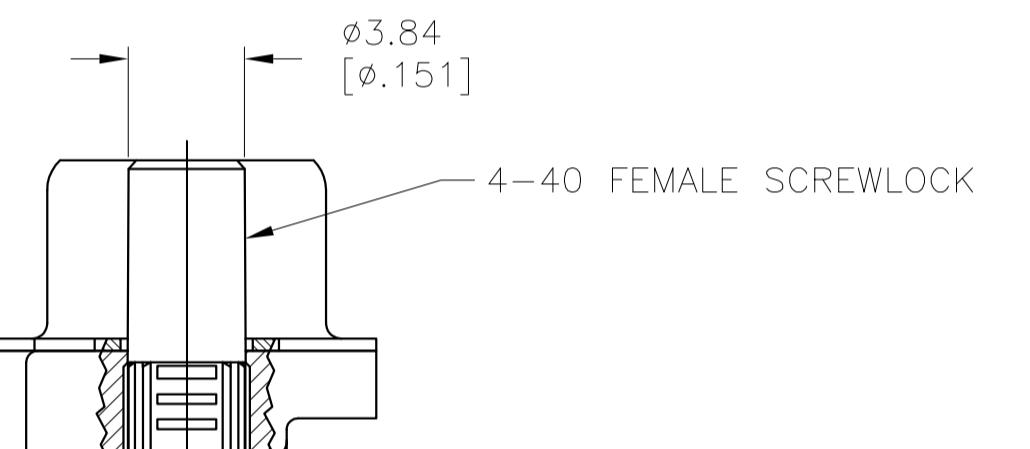
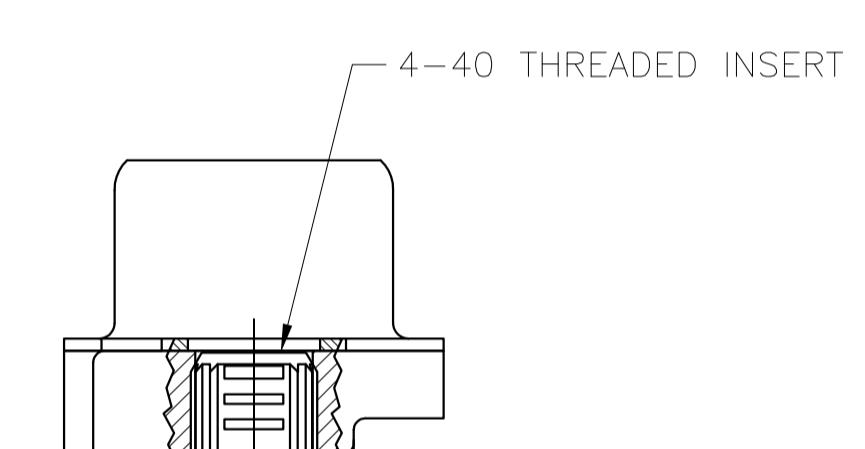
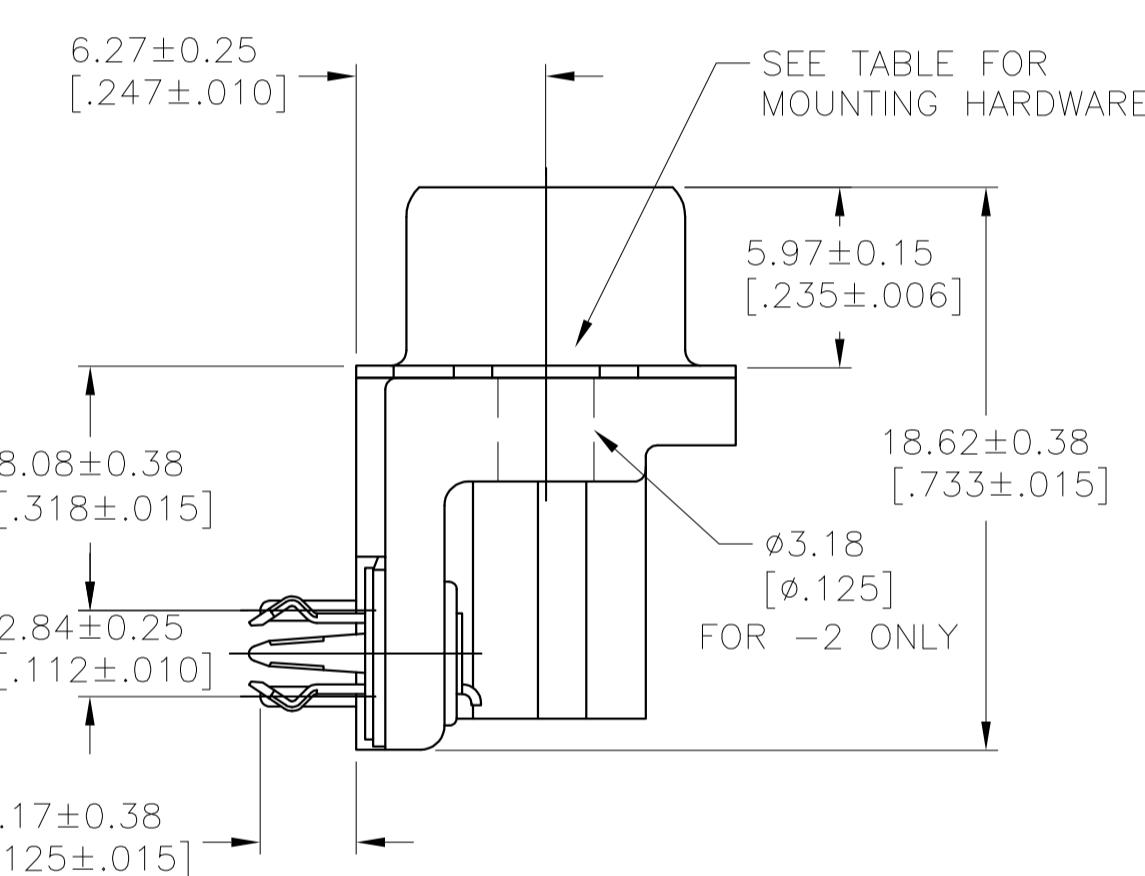
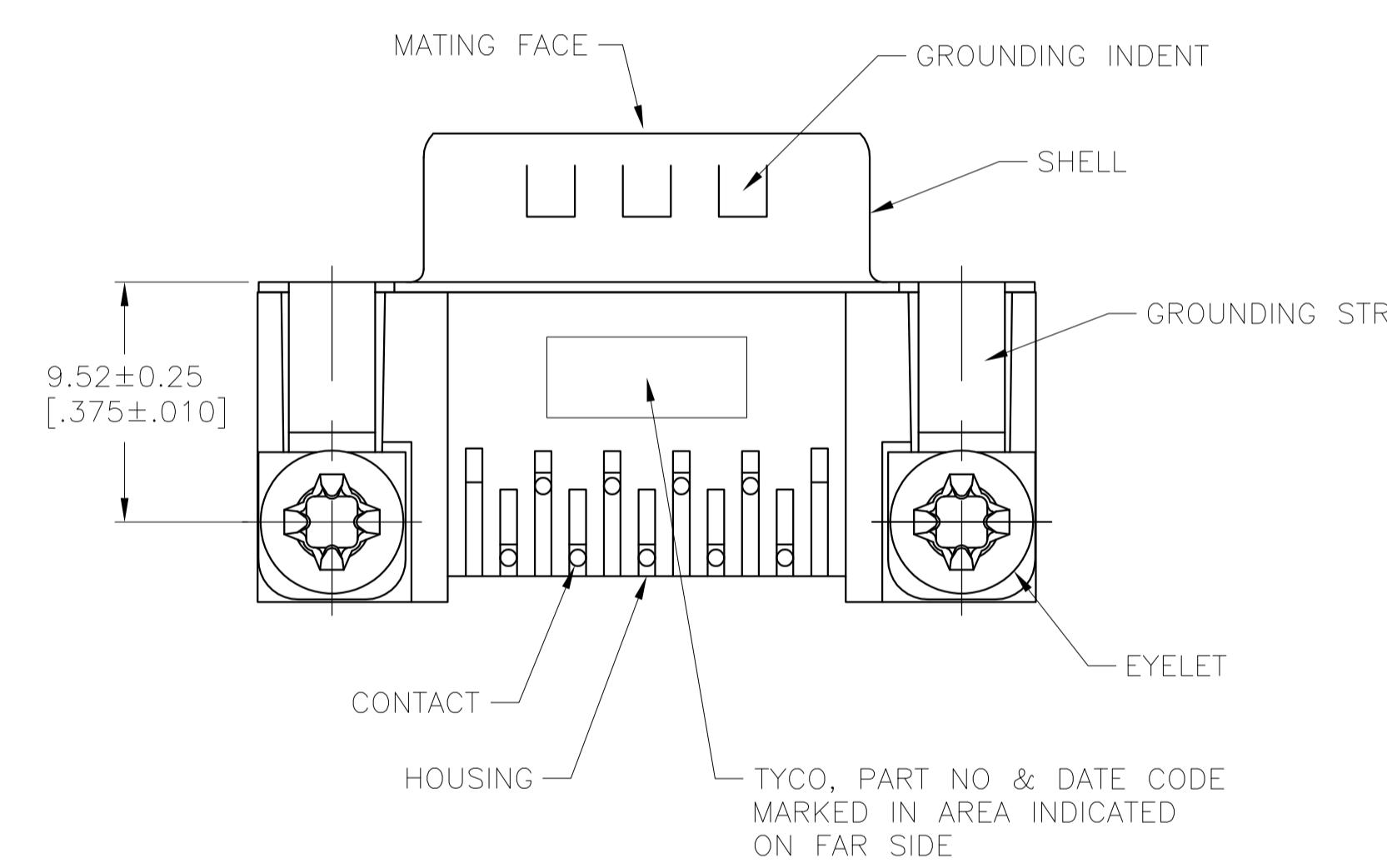


1 HOUSING: NYLON OR POLYESTER, FLAME RETARDANT, 94V-0 RATED, COLOR BLACK.  
SHELL: CARBON STEEL.  
CONTACTS: BRASS.  
EYELETS: BRASS.  
BOARDLOCKS: COPPER ALLOY.  
INSERTS: ZINC.  
SCREWLOCKS: ZINC.

2 SHELL: .00254μm[.000100] MIN TIN OVER .00127μm[.000050] MIN COPPER.  
CONTACTS: SEE TABLE.  
EYELETS: .00508μm[.000200] MIN TIN OVER COPPER FLASH.  
BOARDLOCKS: .00508μm[.000200] MIN TIN OVER .00127μm[.000050] MIN NICKEL.  
INSERTS: CLEAR CHROMATE.  
SCREWLOCKS: CLEAR CHROMATE.

3 0.76μm[.000030] MIN GOLD PLATE ON THE MATING SURFACES, 2.54μm[.000100] MIN TIN PLATE ON THE SOLDER END, 1.27μm[.000050] MIN NICKEL UNDERPLATE ON THE ENTIRE CONTACT  
-OR-  
GOLD FLASH OVER PALLADIUM-NICKEL PLATE, 0.76μm[.000030] MIN TOTAL ON THE MATING SURFACES, 2.54μm[.000100] MIN TIN PLATE ON THE SOLDER END, 1.27μm[.000050] MIN NICKEL UNDERPLATE ON THE ENTIRE CONTACT.

4 GOLD FLASH ON MATING END, .00254μm[.000100] MIN TIN ON SOLDER END, ALL OVER .00127μm[.000050] MIN NICKEL.



RECOMMENDED PC BOARD LAYOUT  
1.57[.062] PC BOARD  
(VIEWED FROM CONNECTOR SIDE)

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THIS DRAWING IS A CONTROLLED DOCUMENT. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009		07FEB05	07FEB05	TE Connectivity	
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED		NAME	
		APVD	S. BOLASH		
0 PLC	± -			M. WALMSLEY	PLUG ASSEMBLY, SIZE 1, 9 POS, RIGHT ANGLE, FRONT METAL SHELL, 8.08[.318] SERIES, AMPLIMITE HD-20
2 PLC	± -			108-40025	
3 PLC	± -			APPLICATION SPEC	
4 PLC	± 0.13[.005]			114-40010	
MATERIAL		FINISH	± 2°	SIZE	CAGE CODE DRAWING NO
A1				A1	00779 C 5747840
CUSTOMER DRAWING		WEIGHT	-	RESTRICTED TO	
SCALE 4:1 SHEET 1 OF 1 REV D					