

5747840-2 Product Details

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5747840-2

TE Internal Number: 5747840-2

 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
- Without Mating Connector Lock

[View all Features](#)

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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 \(STEP, Version D\)](#)

[List all Documents](#)

Additional Information:

- [Product Line Information](#)

Related Products:

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

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 = Without
- 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]

Dimensions:

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

Body Features:

- Shell Material = Steel
- Shell Plating = Tin
- Eyelet Plating = Tin over Copper Flash

Contact Features:

- Contact Plating, Mating Area, Material = Gold (30)
- Solder Tail Contact Plating = Tin over Nickel
- Contact Shape = Round
- Contact Base Material = Brass

Housing Features:

- Connector Style = Plug

- Mounting Hole Diameter (mm [in]) = 3.18 [.125]
- Eyelet Material = Brass

Mechanical Attachment:

- [Panel Mount Retention](#) = Without
- Boardlock Material = Copper Alloy
- Boardlock Plating = Tin over Nickel

Termination Features:

- [Grounding Clips](#) = Without
- [Termination Post Length \(mm \[in\]\)](#) = 3.18 [0.125]

- 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

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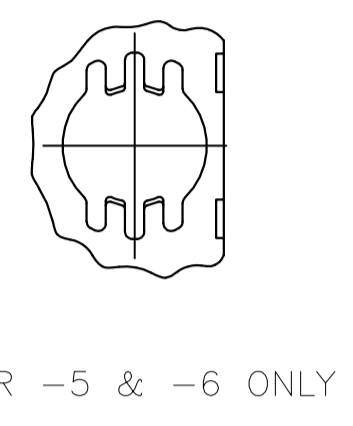
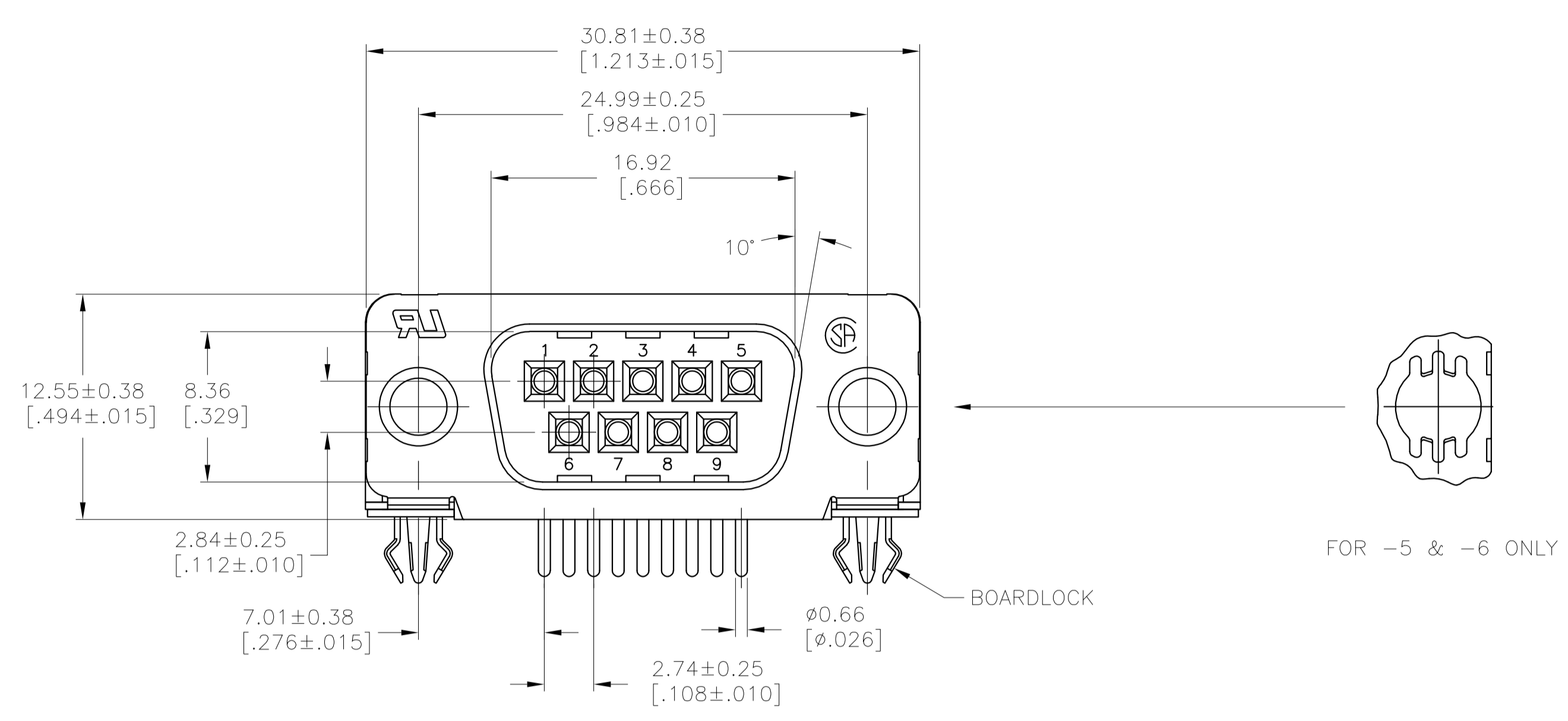
- [Distributor Inventory](#)
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Customer Support

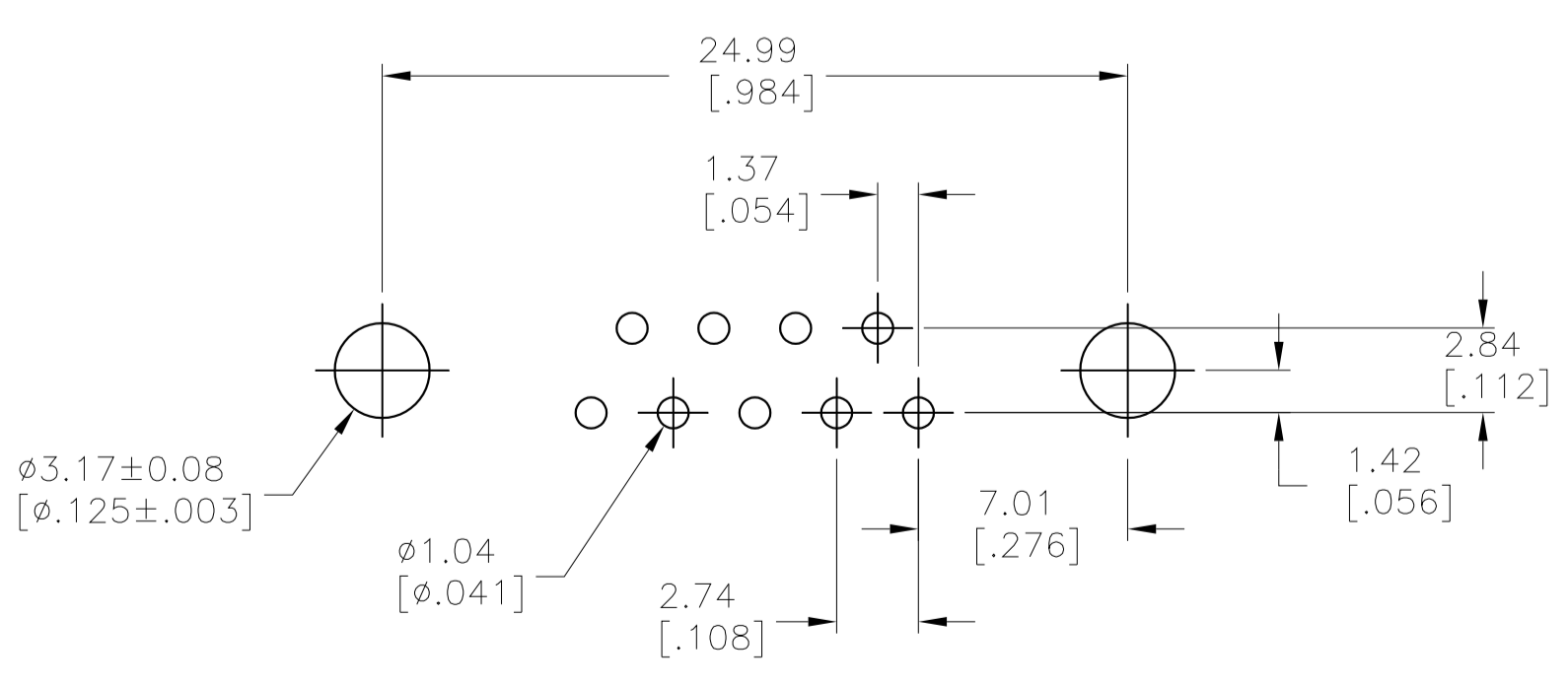
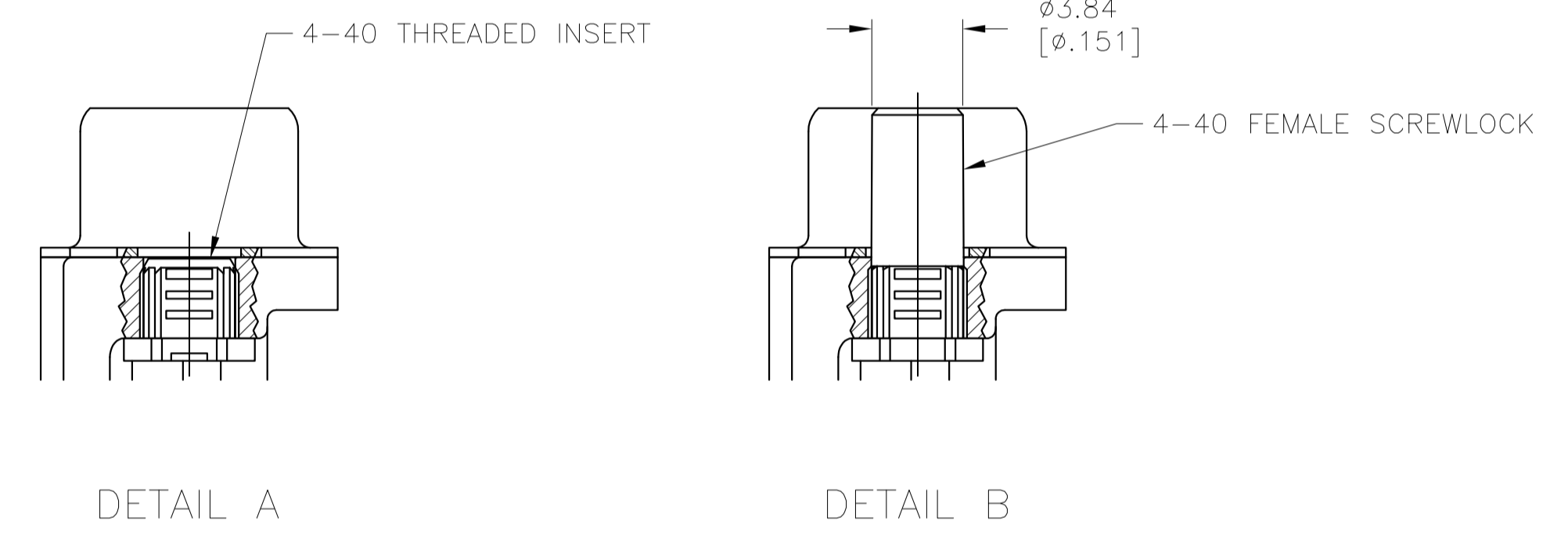
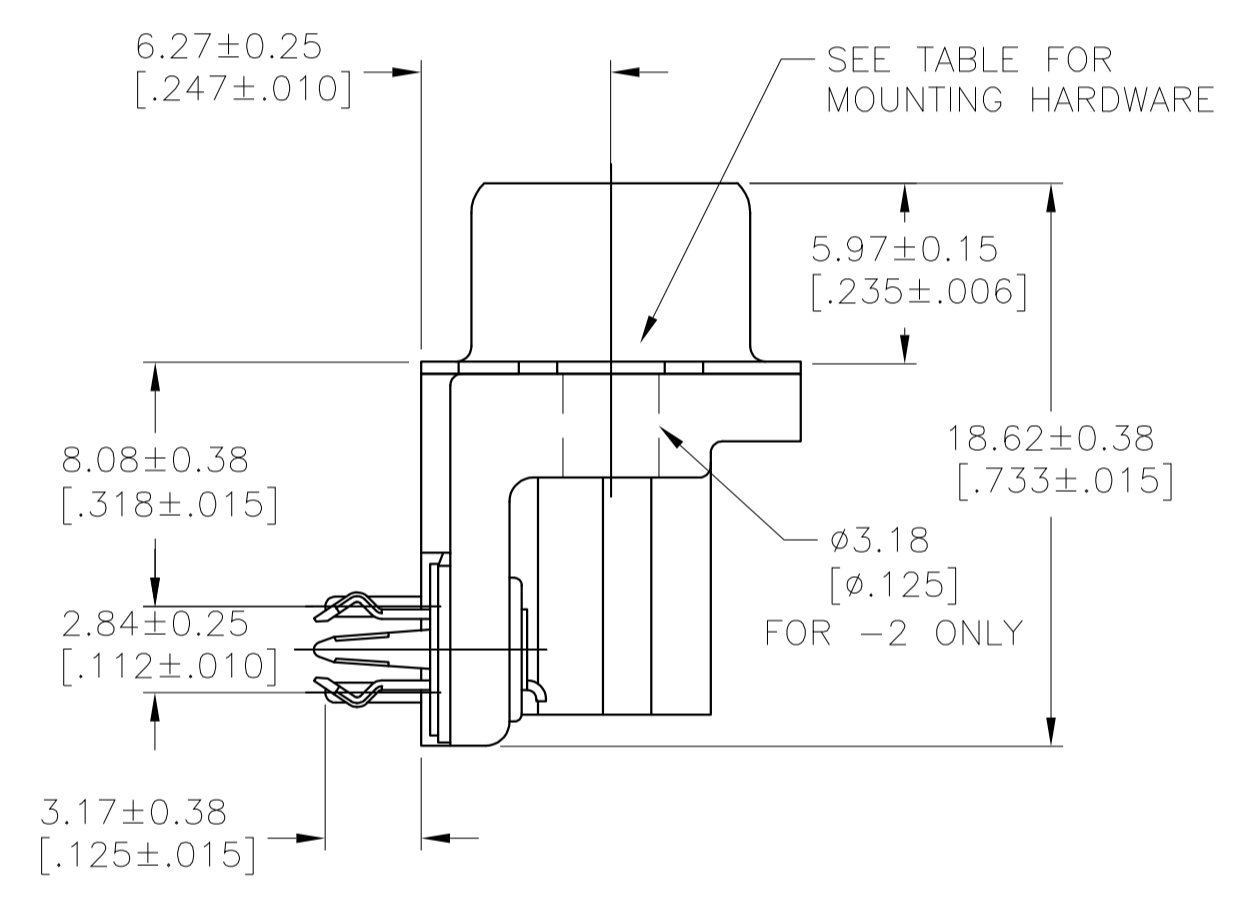
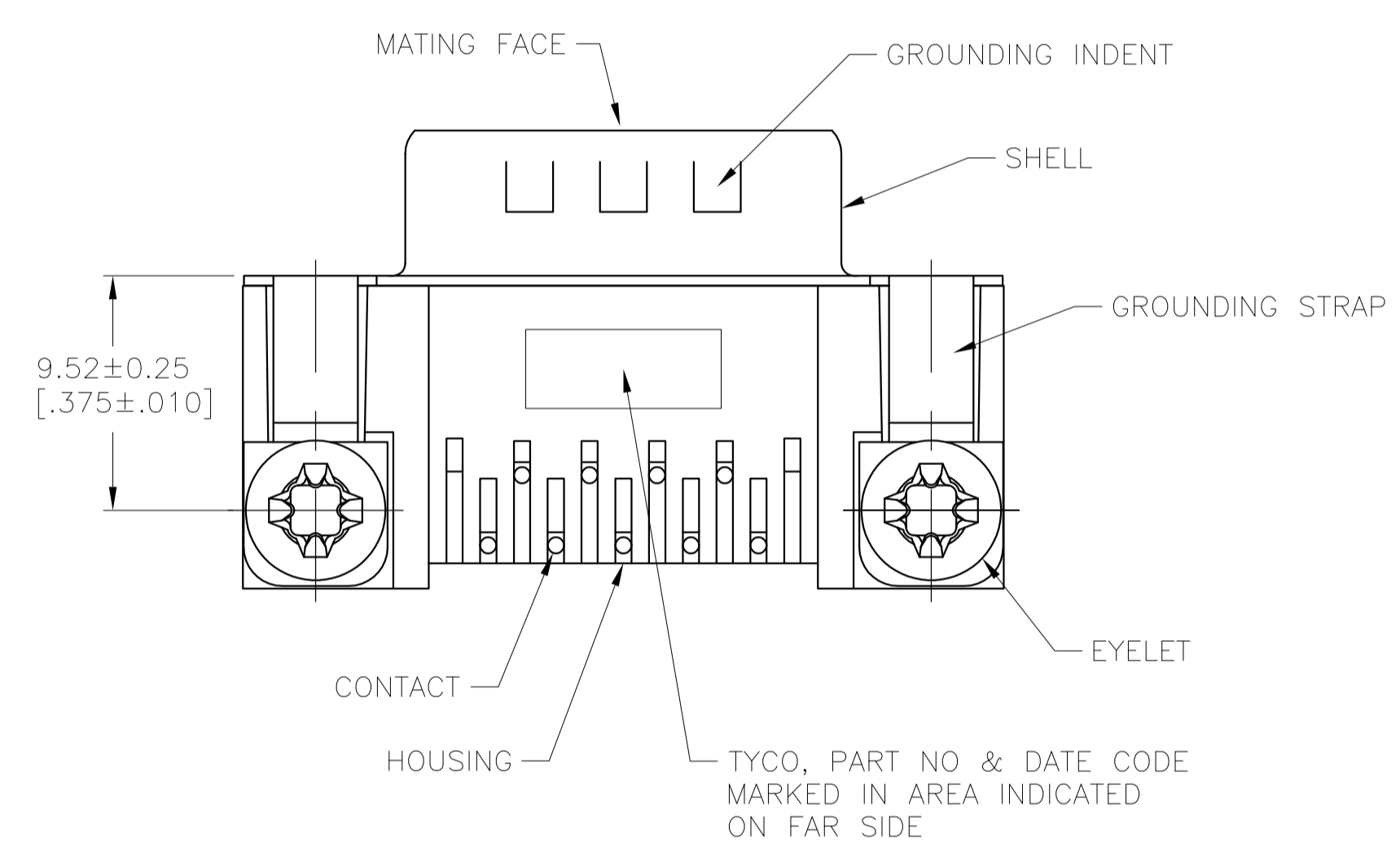
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- 1 HOUSING: NYLON OR POLYESTER, FLAME RETARDANT, 94V-0 RATED, COLOR BLACK.
SHELL: CARBON STEEL.
CONTACTS: BRASS.
EYELETS: BRASS.
BOARDLOCKS: COPPER ALLOY.
INSERTS: ZINC.
SCREWLOCKS: ZINC.
- 2 SHELL: .00254μm[.000100] MIN TIN OVER .00127μm[.000050] 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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1	SEE DETAIL B	5747840-6
2	SEE DETAIL B	5747840-5
3	SEE DETAIL A	5747840-4
4	SEE DETAIL A	5747840-3
	NONE	5747840-2
	CONTACT FINISH	MOUNTING HARDWARE
		PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009		DIN J.GERACE 07FEB05	TE Connectivity	
		CIK S.BOLASH 07FEB05		
DIMENSIONS: INCHES		APVD M.WALMSLEY 07FEB05	NAME	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC	PLUG ASSEMBLY, SIZE 1, 9 POS, RIGHT ANGLE, FRONT METAL SHELL, 8.08[.318] SERIES, AMPLIMITE HD-20	
0 PLC ± -	1 PLC ± -	APPLICATION SPEC	108-40025	
2 PLC ± -	3 PLC ± 0.13(.005)	SIZE	114-40010	
4 PLC ± -	ANGLES ± ±	WEIGHT	A1 00779 C=5747840	
MATERIAL	FINISH	CUSTOMER DRAWING	SCALE 4:1	SHEET 1 OF 1