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787170-7 Product Details

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787170-7

TE Internal Number: 787170-7

Active

View 3D PDF

.050 Series Board Mount Connectors

5 of 6 EU RoHS/ELV Compliant (Find RoHS
 Compliant Alternates/Statement of Compliance)

Product Highlights:

- Connector
- Connector Style = Receptacle
- 68 Positions
- PCB Mounting Orientation = Right Angle
- Termination Method to PC Board = Through Hole - Solder

[View all Features](#)

Quick Links

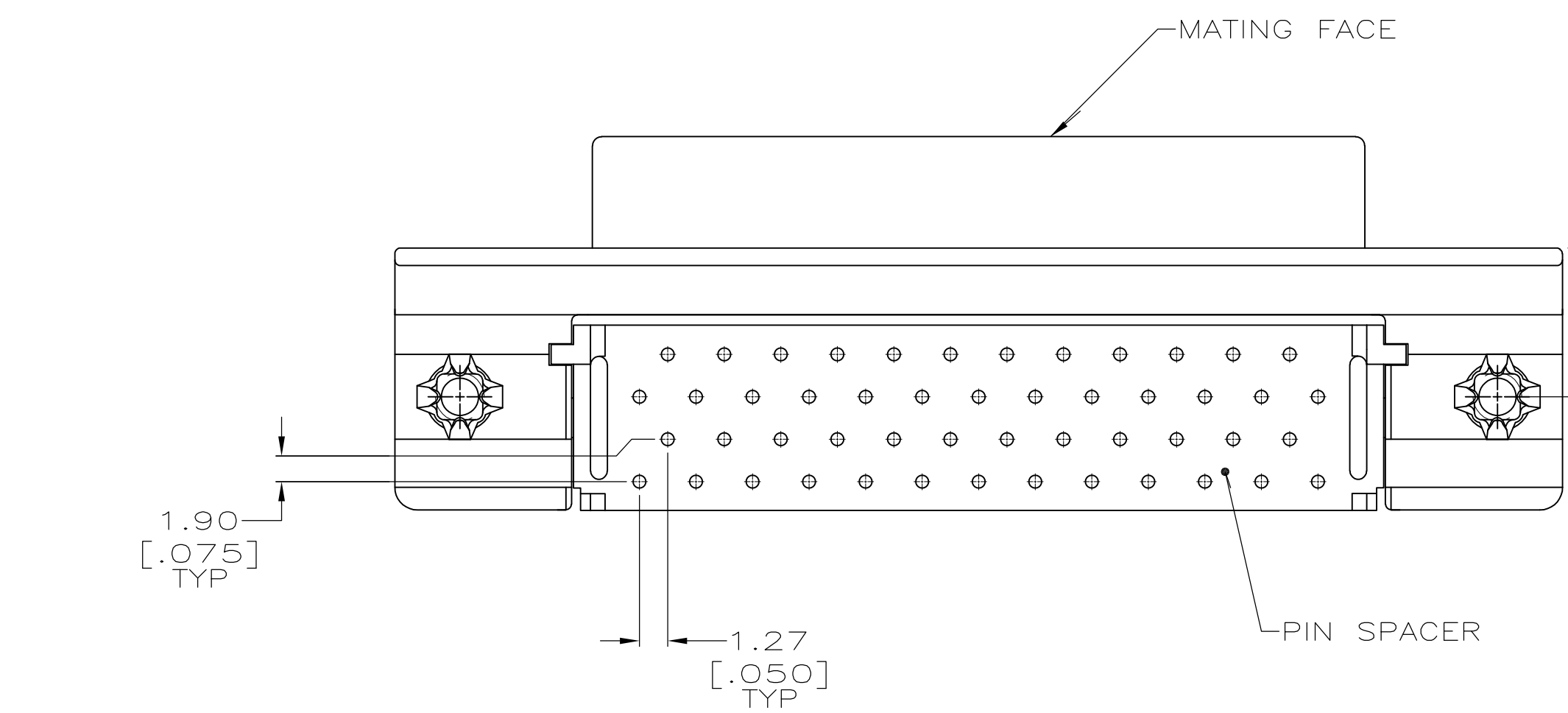
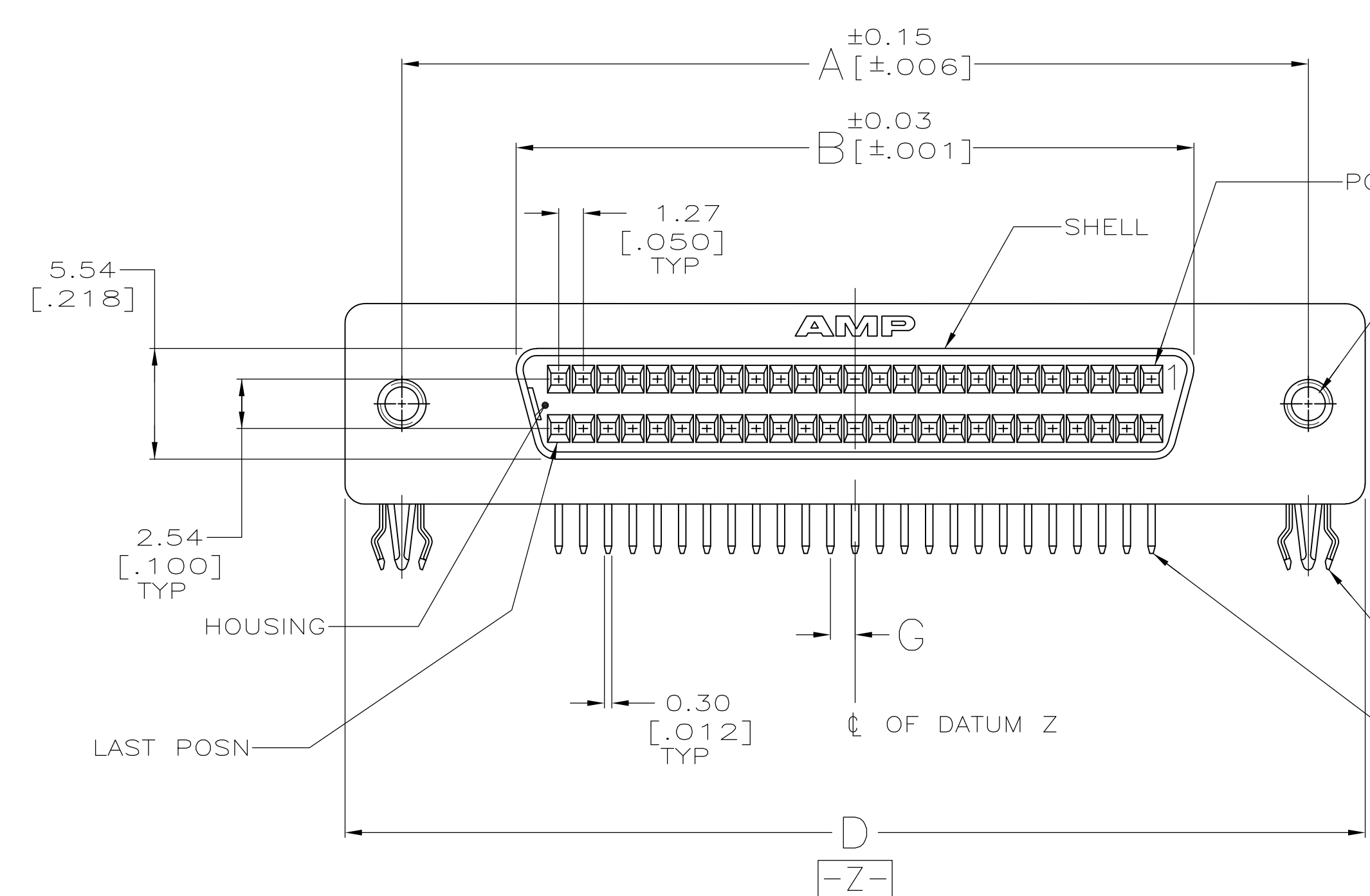
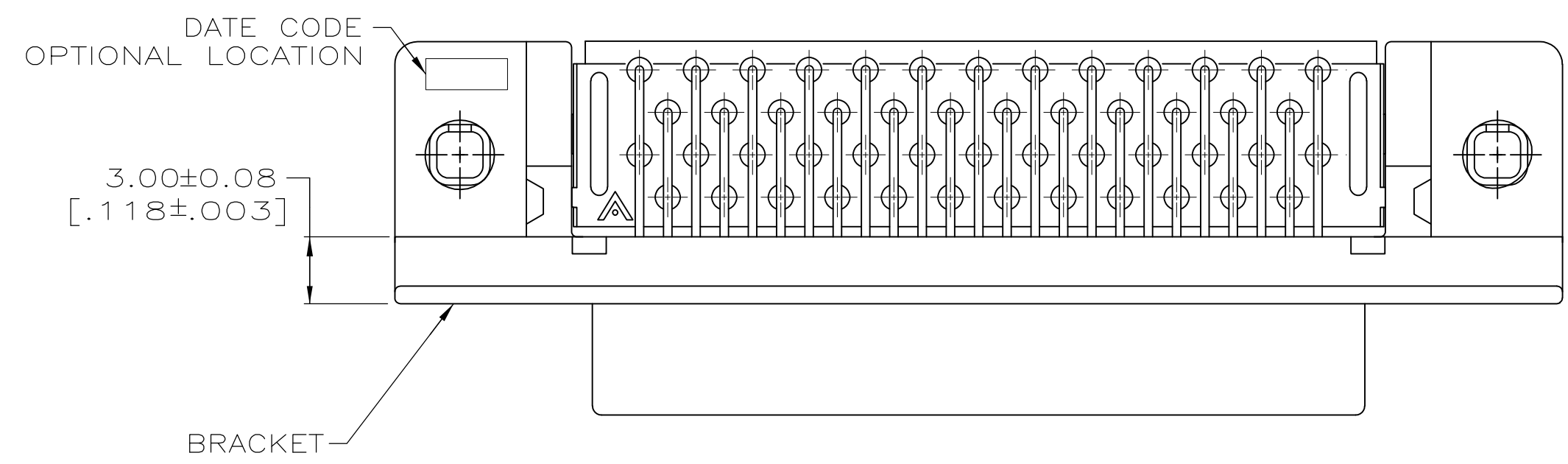
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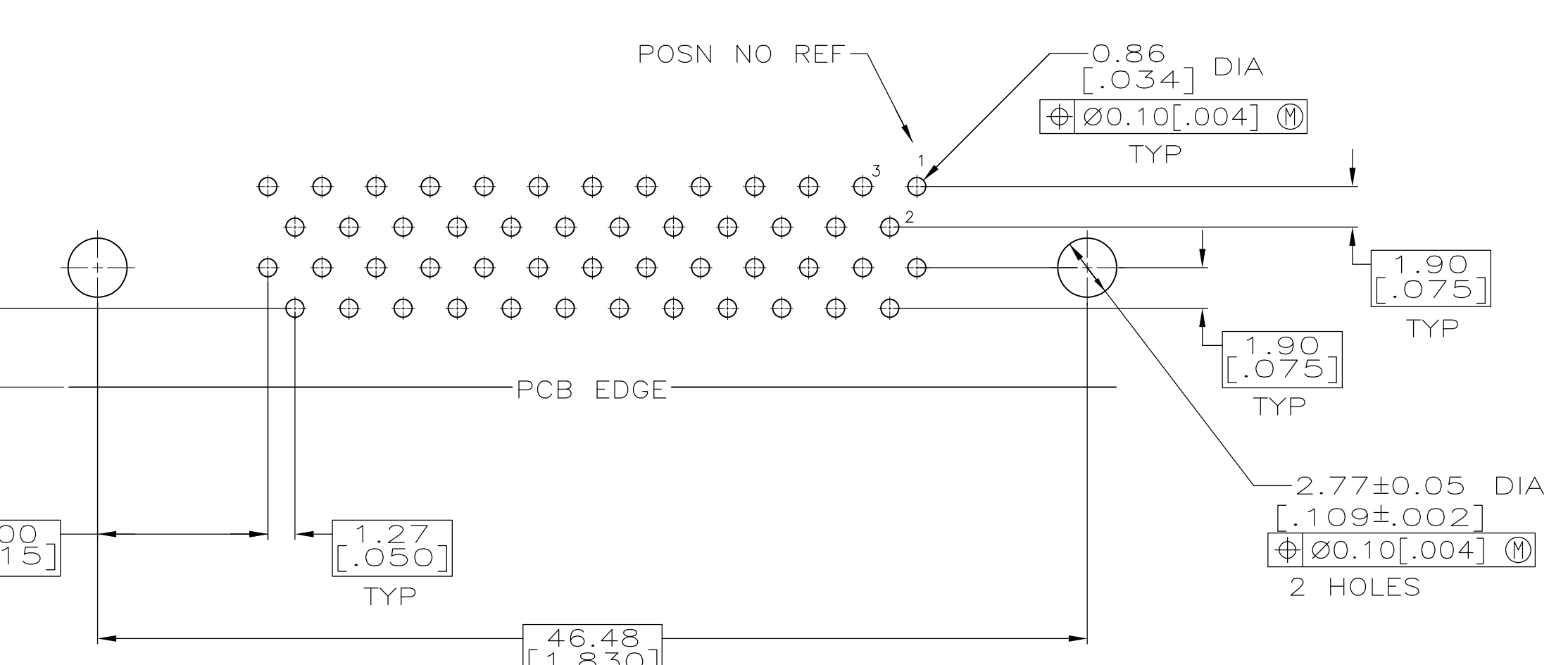
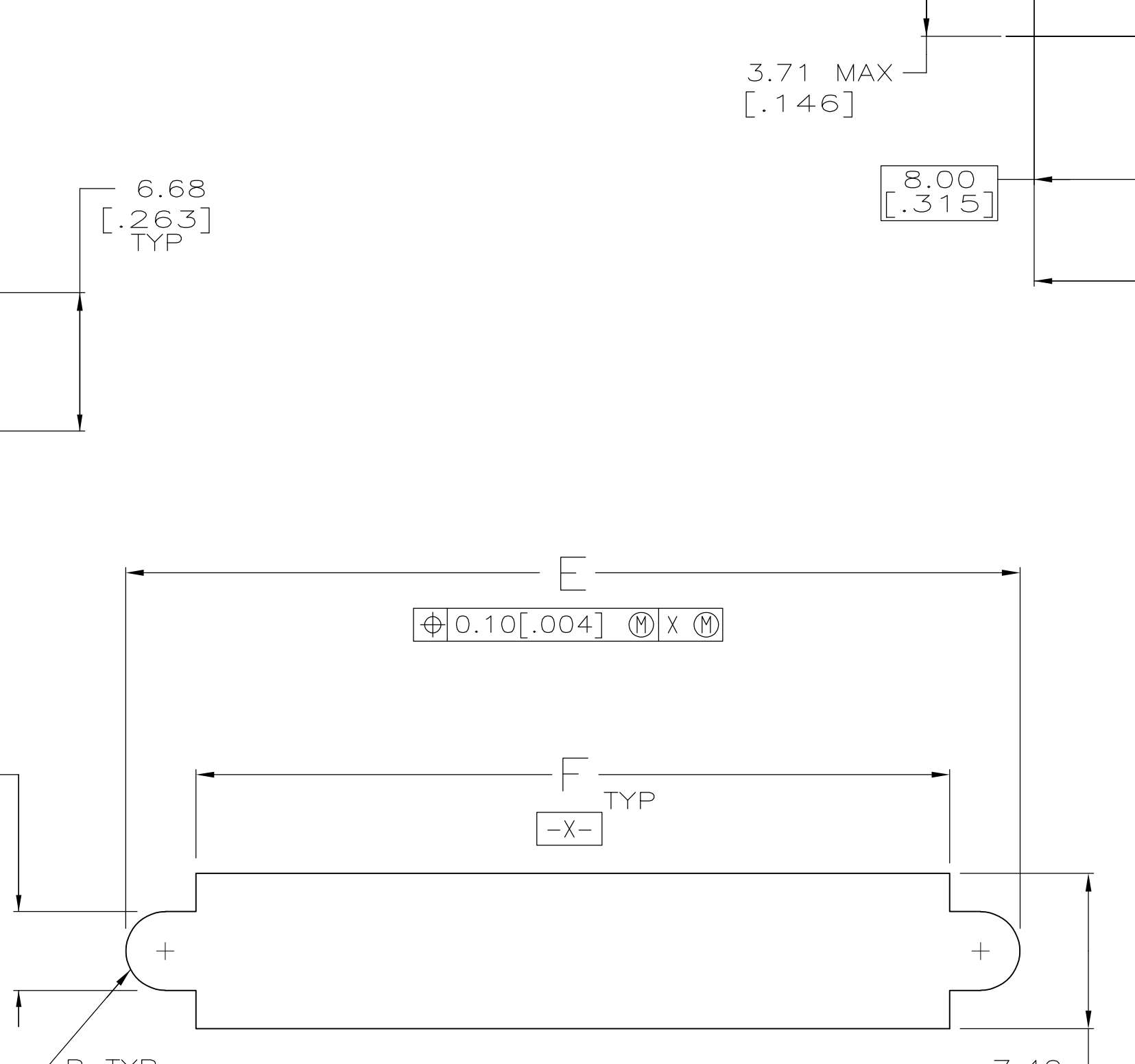
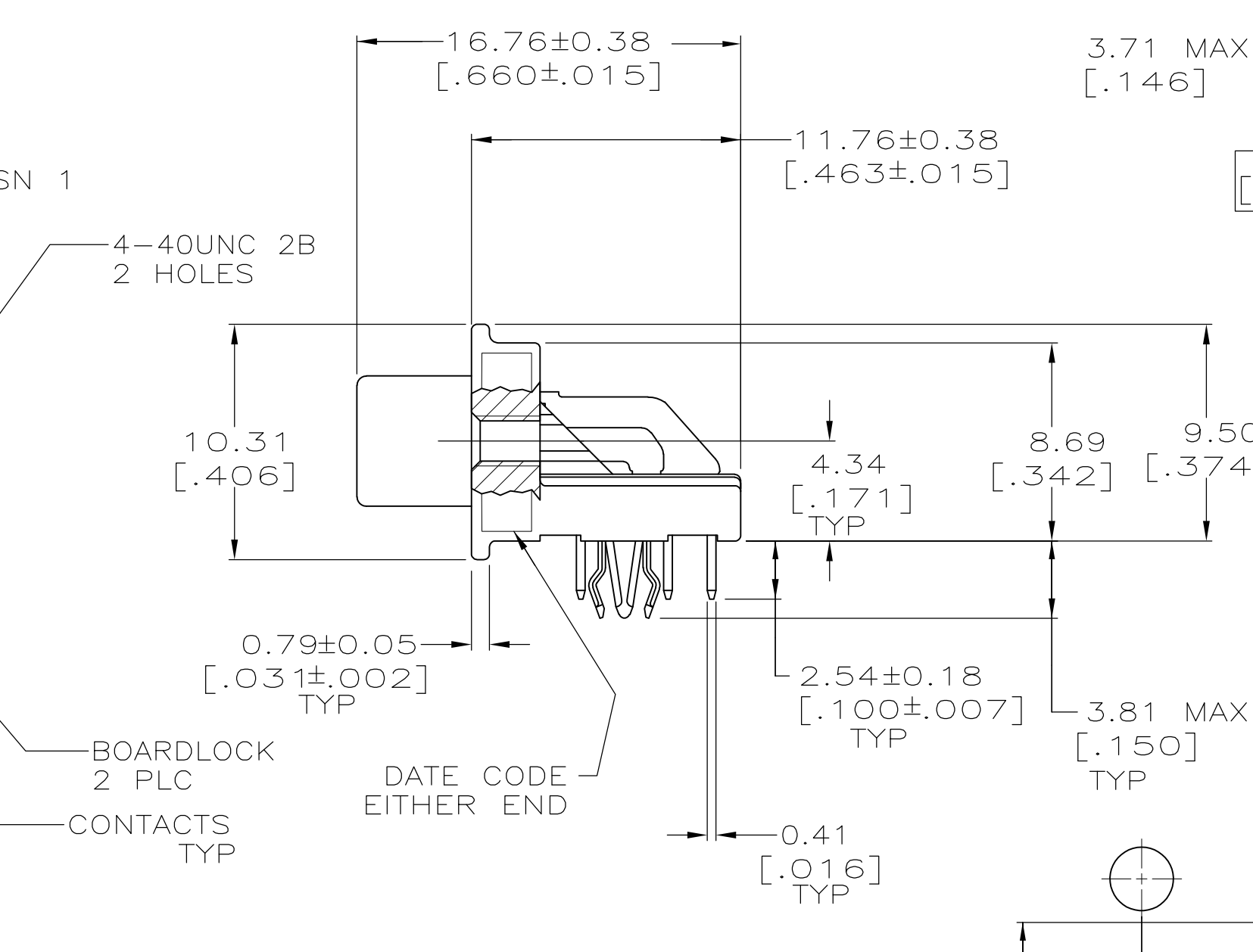
| Documentation & Additional Information | |
|---|--|
| <p>Product Drawings:</p> <ul style="list-style-type: none"> • RECEPTACLE ASSEMBLY, SHIELDED, RIGHT ANGLE, .050 SER... (PDF, English) <p>Catalog Pages/Data Sheets:</p> <ul style="list-style-type: none"> • None Available <p>Product Specifications:</p> <ul style="list-style-type: none"> • Connector, AMPLIMITE, Shielded, .050 Series (PDF, English) <p>Application Specifications:</p> <ul style="list-style-type: none"> • AMPLIMITE .050 Series Cable End Insulation Displacem... (PDF, English) <p>Instruction Sheets:</p> <ul style="list-style-type: none"> • None Available <p>CAD Files: (CAD Format & Compression Information)</p> <ul style="list-style-type: none"> • 2D Drawing (DXF, Version V) • 3D Model (IGES, Version V) • 3D Model (STEP, Version V) | <p>Additional Information:</p> <ul style="list-style-type: none"> • Product Line Information <p>Related Products:</p> <ul style="list-style-type: none"> • Tooling |

[List all Documents](#)

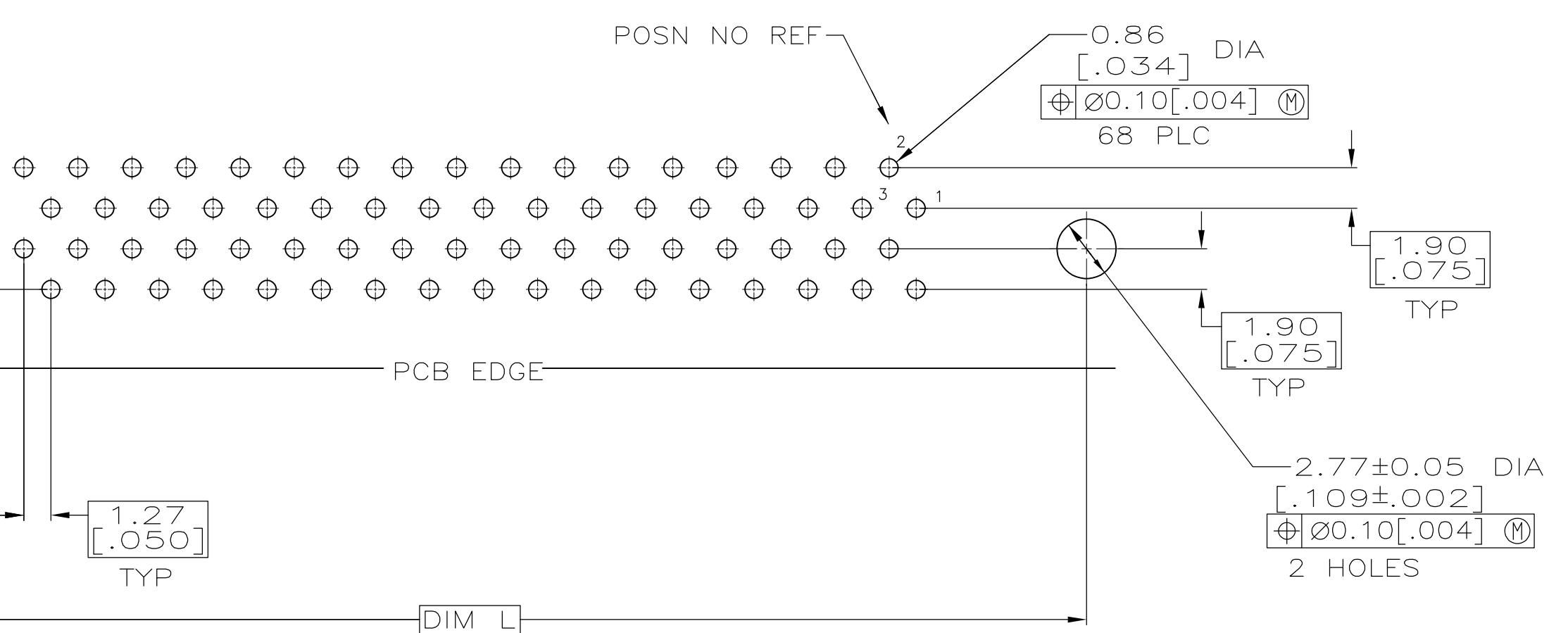
| Product Features (Please use the Product Drawing for all design activity) | |
|---|--|
| <p>Product Type Features:</p> <ul style="list-style-type: none"> • Product Type = Connector • PCB Mounting Orientation = Right Angle • PCB Mount Retention = With • PCB Mount Retention Type = Boardlock(s) • PCB Mount Alignment = Without • Shell Type = Full Metal • Product Series = Series III <p>Mechanical Attachment:</p> <ul style="list-style-type: none"> • Boardlock Material = Copper Alloy • Boardlock Plating = Tin-Lead over Nickel <p>Termination Features:</p> <ul style="list-style-type: none"> • Termination Method to PC Board = Through Hole - Solder • Termination Post Length (mm [in]) = 2.54 [0.100] <p>Dimensions:</p> <ul style="list-style-type: none"> • PCB Thickness, Recommended (mm [in]) = 1.57 [0.062] <p>Body Features:</p> <ul style="list-style-type: none"> • Mating Retention = Without • Post Plating = Tin Lead over Nickel • Shell Material = Steel • Shell Plating = Bright Tin • Bracket Material = Zinc | <p>Contact Features:</p> <ul style="list-style-type: none"> • Contact Plating, Mating Area, Material = Gold (30), Gold Flash over Palladium Nickel • Contact Base Material = Phosphor Bronze <p>Housing Features:</p> <ul style="list-style-type: none"> • Connector Style = Receptacle • Mating Alignment = Without • Centerline (mm [in]) = 1.27 [0.050] • Housing Material = Thermoplastic - GF • Housing Color = Black <p>Configuration Features:</p> <ul style="list-style-type: none"> • Number of Positions = 68 • Shielded = Yes <p>Industry Standards:</p> <ul style="list-style-type: none"> • RoHS/ELV Compliance = ELV compliant, 5 of 6 Compliant • Lead Free Solder Processes = Not suitable for lead free processing • UL Flammability Rating = UL 94V-0 <p>Other:</p> <ul style="list-style-type: none"> • Brand = AMP • Comment = Female screwlocks must be used to mate with cable assemblies with male jackscrew hardware. |



- MATERIAL**
 CONTACTS: PHOSPHOR BRONZE
 HOUSING & PIN SPACER: UL 94V-0 RATED, THERMOPLASTIC, BLACK
 BRACKET: ZINC
 SHELL: CARBON STEEL
 BOARDLOCKS: COPPER ALLOY.
- FINISH**
 CONTACTS: EITHER 0.76µm [.000030] MIN GOLD PLATE FOR A LENGTH OF 0.64 [.025] MAX, 0.13 [.005] MIN FROM MATING END OR GOLD FLASH OVER PALLADIUM NICKEL PLATE, 0.76µm [.000030] MIN TOTAL FOR A LENGTH OF 0.64 [.025] MAX, 0.13 [.005] MIN FROM MATING END. 3.81µm [.000150] MIN TIN-LEAD ON OPPOSITE END FOR A LENGTH OF 2.72 [.107] MIN, BOTH OVER 1.27µm [.000050] MIN NICKEL.
 SHELL: 5.08µm [.000200] MIN NICKEL OVER 1.27µm [.000050] MIN COPPER.
 BRACKET: 2.54µm [.000100] MIN NICKEL OVER 5.08µm [.000200] COPPER.
- 5** 5.08µm [.000200] MIN TIN-LEAD OVER 1.27µm [.000050] MIN NICKEL.
4 3.00µm [.000118] MIN TIN OVER 1.27µm [.000050] MIN NICKEL.
3 OBSOLETE PARTS: OBSOLETE CIS STREAMLINING PER D.RENAUD/D.SINISI



P.C. BOARD MOUNTING DIMENSIONS
 CONNECTOR SIDE
 P.C. BOARD THICKNESS 1.57±0.20 [.062±.008]
 PC BOARD PATTERN S



P.C. BOARD MOUNTING DIMENSIONS
 CONNECTOR SIDE
 P.C. BOARD THICKNESS 1.57±0.20 [.062±.008]
 PC BOARD PATTERN T

| PC BOARD PATTERN | BOARDLOCK FINISH | L | G | F | E | D | B | A | NO OF POSN | PART NUMBER |
|------------------|------------------|---------------|-------------|---------------|---------------|---------------|---------------|---------------|------------|-------------|
| T | 4 | 57.91 [2.280] | 0.64 [.025] | 49.12 [1.934] | 61.72 [2.430] | 63.88 [2.515] | 46.13 [1.816] | 57.91 [2.280] | 68 | 1-787170-0 |
| T | 3 | 78.23 [3.080] | 0.64 [.025] | 69.44 [2.734] | 82.04 [3.230] | 84.20 [3.315] | 66.45 [2.616] | 78.23 [3.080] | 100 | 787170-9 |
| T | 3 | 57.91 [2.280] | 0.64 [.025] | 49.12 [1.934] | 61.72 [2.430] | 63.88 [2.515] | 46.13 [1.816] | 57.91 [2.280] | 68 | 787170-7 |
| S | 3 | - | 1.27 [.050] | 37.69 [1.484] | 50.29 [1.980] | 52.45 [2.065] | 34.70 [1.366] | 46.48 [1.830] | 50 | 787170-5 |
| T | 3 | 40.13 [1.580] | 0.64 [.025] | 36.78 [1.448] | 43.56 [1.715] | 46.10 [1.815] | 28.35 [1.116] | 40.13 [1.580] | 40 | 787170-4 |

THIS DRAWING IS A CONTROLLED DOCUMENT. DIN B MCMASTER 26FEB04
 CJK S. SHUEY 26FEB04
 APVD M. WALMSLEY 26FEB04 NAME
 PRODUCT SPEC 108-1228
 APPLICATION SPEC 114-40029
 WEIGHT -
 CUSTOMER DRAWING

STE TE Connectivity
 RECEPTACLE ASSEMBLY, SHIELDED, RIGHT ANGLE, .050 SERIES, AMPLIMATE

SIZE: A1 CAGE CODE: 00779 DRAWING NO: 787170
 SCALE: 4:1 SHEET: 1 OF 1 REV: V2