



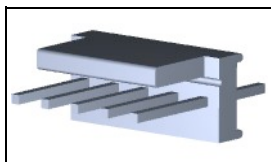
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640454-5 Product Details

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640454-5

TE Internal Number: 640454-5

Active

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MTA, CST-100 II, MT-6 and SL Connectors and Headers

Always EU RoHS/ELV Compliant (Statement of Compliance)

Product Highlights:

- MTA-100 Product Line
- MTA Series
- Wire-to-Board
- Applies To Printed Circuit Board
- Connector

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Documentation & Additional Information	
<p>Product Drawings:</p> <ul style="list-style-type: none"> • MTA-.100 HEADER ASSEMBLY, POLARIZED, NOTCHED, .025 S... (PDF, English) <p>Catalog Pages/Data Sheets:</p> <ul style="list-style-type: none"> • MTA, CST-100 II, SL-156 and AMP Economy Power (EP) C... (PDF, English) <p>Product Specifications:</p> <ul style="list-style-type: none"> • None Available <p>Application Specifications:</p> <ul style="list-style-type: none"> • None Available <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 AA) • 3D Model (IGES, Version AA) • 3D Model (STEP, Version AA) 	<p>Additional Information:</p> <ul style="list-style-type: none"> • Product Line Information <p>Related Products:</p> <ul style="list-style-type: none"> • Tooling • Mating Products (1)

[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 Line = MTA-100 • Series = MTA • Product Type = Connector • Connector Type = Header • Termination Method to Wire/Cable = Solder • Post Size (mm [in]) = 0.64 [0.025] • Termination Method to PC Board = Through Hole - Solder • PCB Mounting Orientation = Vertical • PCB Mount Retention = Without • PCB Mount Alignment = Without • Strain Relief = Without • Sealed = No • UL File Number = E28476 • CSA File Number = LR7189 <p>Mechanical Attachment:</p> <ul style="list-style-type: none"> • Contact Retention = Without • Panel Mount Retention = Without <p>Electrical Characteristics:</p> <ul style="list-style-type: none"> • Contact - Rated Current (A) = 5 • Operating Voltage Reference = AC • Operating Voltage (VAC) = 250 <p>Termination Features:</p> <ul style="list-style-type: none"> • Tail Length (mm [in]) = 3.56 [0.14] <p>Dimensions:</p> <ul style="list-style-type: none"> • Mating Post Length (mm [in]) = 7.49 [0.295] • PCB Thickness, Recommended (mm [in]) = 1.60 [0.063] 	<p>Housing Features:</p> <ul style="list-style-type: none"> • Connector Style = Plug • Centerline (mm [in]) = 2.54 [0.100] • Housing Style = Polarized • Housing Material = Polyester • Housing Color = Natural • Mating Alignment = Without • UL Flammability Rating = UL 94V-0 <p>Configuration Features:</p> <ul style="list-style-type: none"> • Number of Positions = 5 • Post Number(s) Omitted = None • Backwall/Post Interruption(s) = Without • Number of Rows = 1 <p>Industry Standards:</p> <ul style="list-style-type: none"> • RoHS/ELV Compliance = RoHS compliant, ELV compliant • Lead Free Solder Processes = Wave solder capable to 240°C, Wave solder capable to 260°C, Wave solder capable to 265°C • RoHS/ELV Compliance History = Always was RoHS compliant • Agency/Standard = CSA, UL • UL Rating = Recognized • CSA Rating = Certified <p>Environmental:</p> <ul style="list-style-type: none"> • Operating Temperature (°C [°F]) = -55 - +105 [-67 - +221] <p>Conditions for Usage:</p> <ul style="list-style-type: none"> • Applies To = Printed Circuit Board • For Use With = MTA .100 Connector Assembly

Body Features:

- Header Type = Unshrouded
- Mating Retention = Without
- Underplate Material Thickness (μm [μin]) = 1.27 [50.000]
- Assembly Integration Feature = Without

Contact Features:

- Contact Type = Pin
- Contact Shape = Square
- Contact Base Material = Copper Alloy
- Contact Plating, Mating Area, Material = Tin
- Tail Plating Material = Tin
- Contact Style = Straight
- Contact Layout = In-Line
- Multiple Contact Types = Without
- Contact Plating, Mating Area, Thickness (μm [μin]) = 3.81 [150]
- Tail Plating Thickness (μm [μin]) = 3.81 [150]
- Underplate Material = Nickel

Operation/Application:

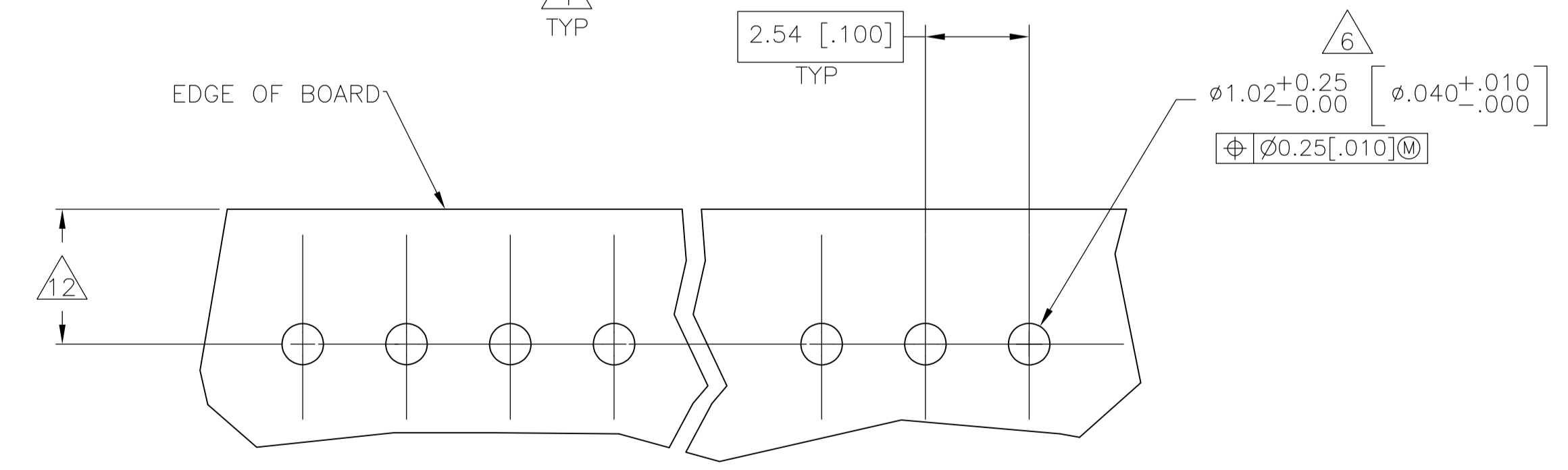
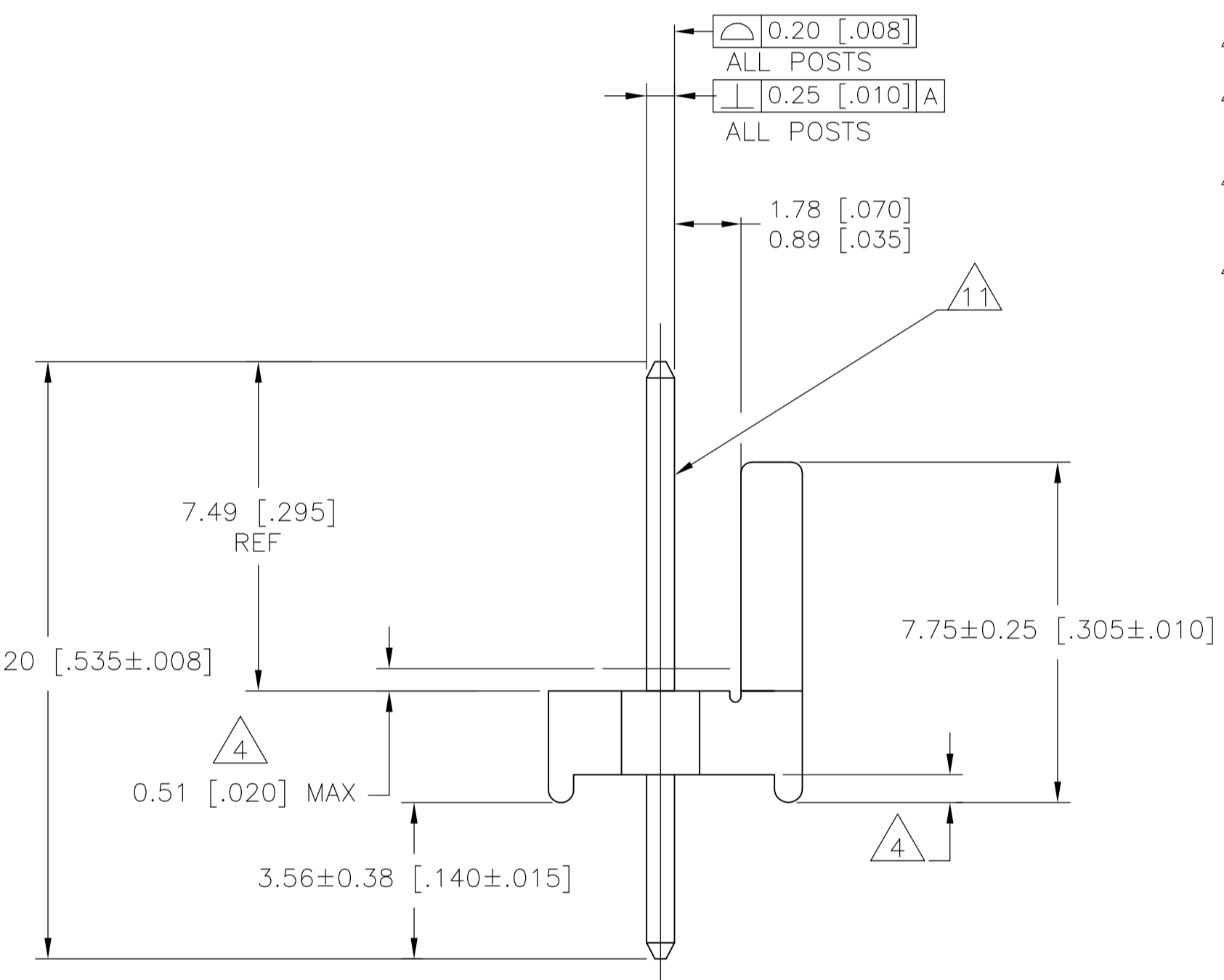
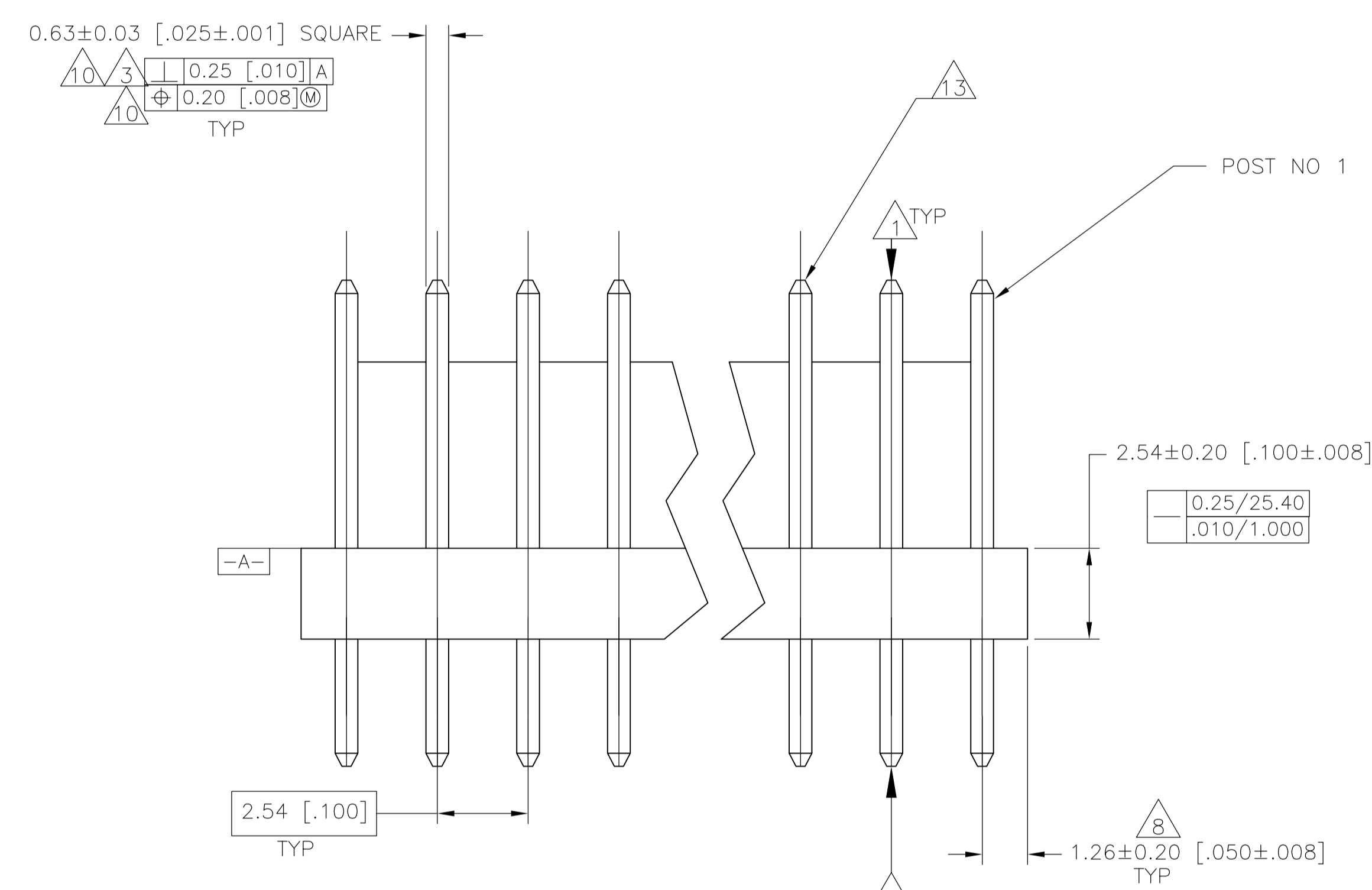
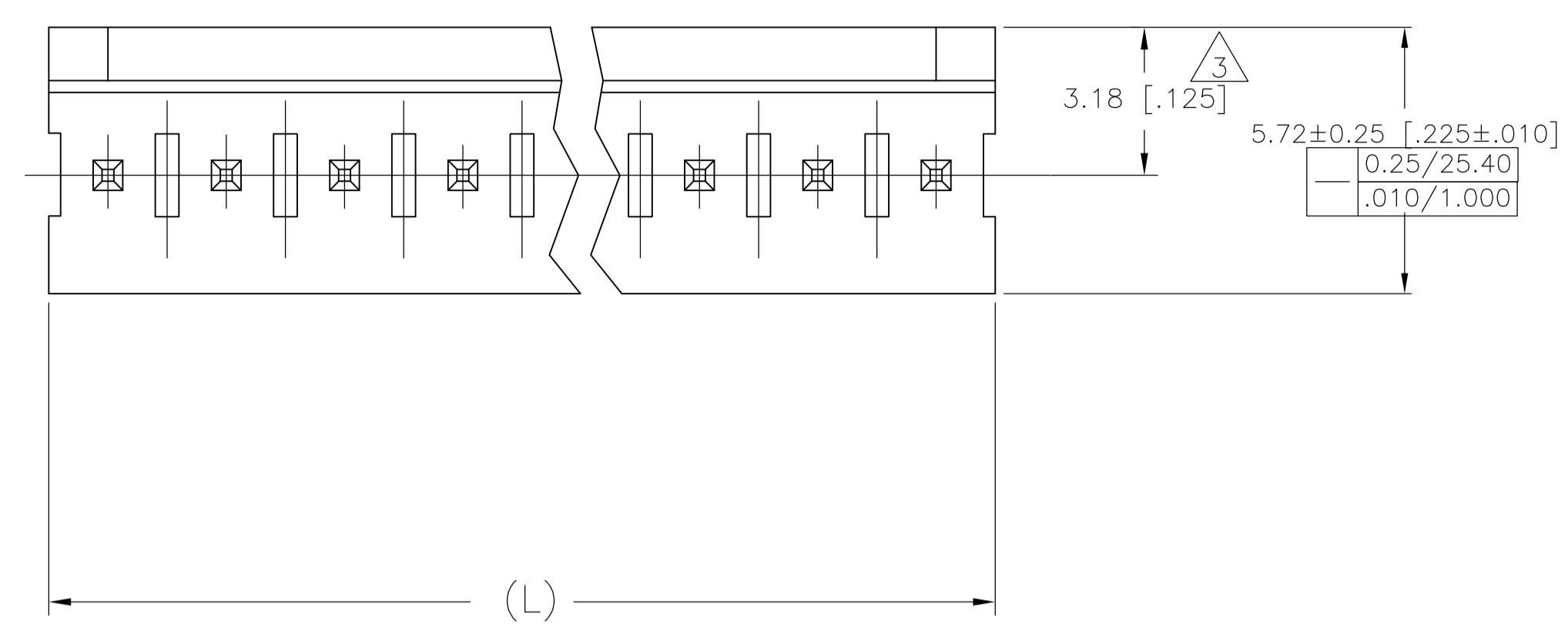
- Application Use = Wire-to-Board

Packaging Features:

- Packaging Method = Package
- Packaging Quantity = 1

Other:

- Brand = AMP



RECOMMENDED MOUNTING HOLE PATTERN FOR 1.60 [0.063] THICK P.C. BOARD

- 1 POST TO WITHSTAND 13 NEWTONS [3 LBS.] MIN. AXIAL FORCE IN BOTH DIRECTIONS SHOWN WITHOUT DISLODGING.
- 2 TOLERANCES APPLY TO SOLDER SIDE OF BOARD.
- 3 MEASURED AT SURFACE -A-
- 4 PLASTIC FLASH PERMITTED IN THIS AREA.
- 5 PARTS COMPLY WITH SOLDERABILITY SPEC. 109-11-2.
- 6 ONE HOLE MAY BE UNDERSIZED 0.81-0.89 [0.032-0.035] DIA. FOR ASSEMBLY RETENTION DURING WAVE SOLDERING.
- 7 MATERIAL: HEADER-THERMOPLASTIC POLYESTER UL94V-0 (NATURAL) POST-COPPER ALLOY (TIN-PLATED)
- 8 COORDINATE DIMENSION APPLIES FROM CENTER OF ACTUAL FEATURE.
- 9 PLASTIC BURRS CAUSED BY CUT-OFF TOOLING ARE PERMITTED WITHIN THE MAXIMUM TOLERANCE ENVELOPE.
- 10 POSTS TO BE MEASURED WHEN STRIP IS HELD FLAT.
- 11 POSTS MUST WITHSTAND TWO 90° BENDS AGAINST EXTRUSION WITHOUT BREAKING.
- 12 DIMENSION SHOULD BE 3.30 [0.130] WHEN MATING WITH A MTA-100 CONNECTOR ASSEMBLY OR A CST-100 CONNECTOR.
- 13 PIN BURR OF 0.13 [0.005] MAX. VERTICAL AND 0.08 [0.003] MAX. HORIZONTAL PERMITTED AT POST TIPS ON BOTH ENDS.

71.12	2.800	28	2-640454-8
68.58	2.700	27	2-640454-7
66.04	2.600	26	2-640454-6
63.50	2.500	25	2-640454-5
60.96	2.400	24	2-640454-4
58.42	2.300	23	2-640454-3
55.88	2.200	22	2-640454-2
53.34	2.100	21	2-640454-1
50.80	2.000	20	2-640454-0
48.26	1.900	19	1-640454-9
45.72	1.800	18	1-640454-8
43.18	1.700	17	1-640454-7
40.64	1.600	16	1-640454-6
38.10	1.500	15	1-640454-5
35.56	1.400	14	1-640454-4
33.02	1.300	13	1-640454-3
30.48	1.200	12	1-640454-2
27.94	1.100	11	1-640454-1
25.40	1.000	10	1-640454-0
22.86	.900	9	640454-9
20.32	.800	8	640454-8
17.78	.700	7	640454-7
15.24	.600	6	640454-6
12.70	.500	5	640454-5
10.16	.400	4	640454-4
7.62	.300	3	640454-3
5.08	.200	2	640454-2
MM	[IN]		
L		NO OF POSITIONS	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.

APPROVED: S. HAMM, 09-NOV-2001
 CHK: D. ROSSI, 09-NOV-2001
 APVD: D. ROSSI, 09-NOV-2001

NAME: MTA-100 HEADER ASSEMBLY, POLARIZED, NOTCHED, .025 SQUARE STRAIGHT POST, TIN PLATED

SIZE: A1, CASE CODE: 00779, DRAWING NO: 640454, RESTRICTED TO: -

WEIGHT: CUSTOMER DRAWING, SCALE: 8:1, SHEET: 1 OF 1, REV: Y1

