



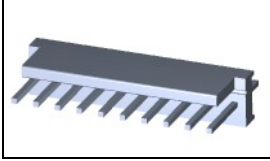
**Have a Question?**  
Chat with a Product Information Specialist

What can we help you find?

[Products](#) [Industries](#) [Resources](#) [About TE](#) [My Account](#) [Innovation](#) [Support Center](#)

**1-640454-0 Product Details**

Share Print Email



**1-640454-0**

TE Internal Number: 1-640454-0

Active

View 3D PDF

**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

[View all Features](#)

**Quick Links**

- ▶ [Pricing & Availability](#)
- ▶ [Search for Tooling](#)
- ▶ [View Mating Products \(52\)](#)
- ▶ [Product Feature Selector](#)
- ▶ [Contact Us About This Product](#)

[Add to My Part List](#) [Request Sample](#) [Find Similar Products](#) [Buy Product](#)

**Documentation & Additional Information**

**Product Drawings:**

- [MTA-.100 HEADER ASSEMBLY, POLARIZED, NOTCHED, .025 S...](#) (PDF, English)

**Catalog Pages/Data Sheets:**

- [MTA, CST-100 II, SL-156 and AMP Economy Power \(EP\) C...](#) (PDF, English)

**Product Specifications:**

- None Available

**Application Specifications:**

- None Available

**Instruction Sheets:**

- None Available

**CAD Files:** ([CAD Format & Compression Information](#))

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

[List all Documents](#)

**Additional Information:**

- [Product Line Information](#)

**Related Products:**

- [Tooling](#)
- [Mating Products \(52\)](#)

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

**Product Type Features:**

- [Product Line](#) = MTA-100
- Product Type = Connector
- Connector Type = Header
- Post Size (mm [in]) = 0.64 [.025]
- [PCB Mounting Orientation](#) = Vertical
- PCB Mount Retention = Without
- PCB Mount Alignment = Without
- Sealed = No
- CSA File Number = LR7189

**Mechanical Attachment:**

- Contact Retention = Without
- [Panel Mount Retention](#) = Without

**Electrical Characteristics:**

- Contact - Rated Current (A) = 5
- Operating Voltage Reference = AC
- Operating Voltage (VAC) = 250

**Termination Features:**

- Termination Method to Wire/Cable = Solder
- Termination Method to PC Board = Through Hole - Solder

**Dimensions:**

- Mating Post Length (mm [in]) = 7.49 [0.295]
- Tail Length (mm [in]) = 3.56 [0.14]

**Housing Features:**

- Connector Style = Plug
- Centerline (mm [in]) = 2.54 [0.100]
- Housing Style = Polarized
- Housing Material = Polyester - GF
- Housing Color = Natural
- [Mating Alignment](#) = Without

**Configuration Features:**

- [Number of Positions](#) = 10
- [Backwall/Post Interruption\(s\)](#) = Without
- Strain Relief = Without
- Number of Rows = 1

**Industry Standards:**

- [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
- UL File Number = E28476
- UL Flammability Rating = UL 94V-0

**Environmental:**

<ul style="list-style-type: none"> <li>PCB Thickness, Recommended (mm [in]) = 1.60 [0.063]</li> </ul> <p><b>Body Features:</b></p> <ul style="list-style-type: none"> <li>Header Type = Unshrouded</li> <li>Mating Retention = Without</li> <li>Assembly Integration Feature = Without</li> </ul> <p><b>Contact Features:</b></p> <ul style="list-style-type: none"> <li>Contact Type = Pin</li> <li>Contact Shape = Square</li> <li>Contact Base Material = Copper Alloy</li> <li>Contact Plating, Mating Area, Material = Tin</li> <li>Tail Plating Material = Tin</li> <li>Contact Style = Straight</li> <li>Contact Layout = In-Line</li> <li>Multiple Contact Types = Without</li> <li>Contact Plating, Mating Area, Thickness (<math>\mu\text{m}</math> [<math>\mu\text{in}</math>]) = 3.81 [150]</li> <li>Tail Plating Thickness (<math>\mu\text{m}</math> [<math>\mu\text{in}</math>]) = 3.81 [150]</li> <li>Underplate Material = Nickel</li> <li>Underplate Material Thickness (<math>\mu\text{m}</math> [<math>\mu\text{in}</math>]) = 1.27 [50.000]</li> </ul>	<ul style="list-style-type: none"> <li>Operating Temperature (<math>^{\circ}\text{C}</math> [<math>^{\circ}\text{F}</math>]) = -55 - +105 [-67 - +221]</li> </ul> <p><b>Conditions for Usage:</b></p> <ul style="list-style-type: none"> <li>Applies To = Printed Circuit Board</li> <li>For Use With = MTA .100 Connector Assembly</li> </ul> <p><b>Operation/Application:</b></p> <ul style="list-style-type: none"> <li>Application Use = Wire-to-Board</li> </ul> <p><b>Packaging Features:</b></p> <ul style="list-style-type: none"> <li>Packaging Method = Package</li> <li>Packaging Quantity = 1</li> </ul> <p><b>Other:</b></p> <ul style="list-style-type: none"> <li>Series = MTA</li> <li>Brand = AMP</li> </ul>
--	---

**Corporate Information**

- [About TE](#)
- [Investors](#)
- [News Room](#)
- [Supplier Portal](#)
- [Careers](#)
- [Terms & Conditions](#)
- [Privacy Policy](#)
- [AODA Accessibility Policy](#)
- [AODA Multi-Year Accessibility Plan](#)

**Quick Links**

- [Distributor Inventory](#)
- [Product Cross Reference](#)
- [Documents & Drawings](#)
- [Product Compliance Support Center](#)
- [Site Map](#)

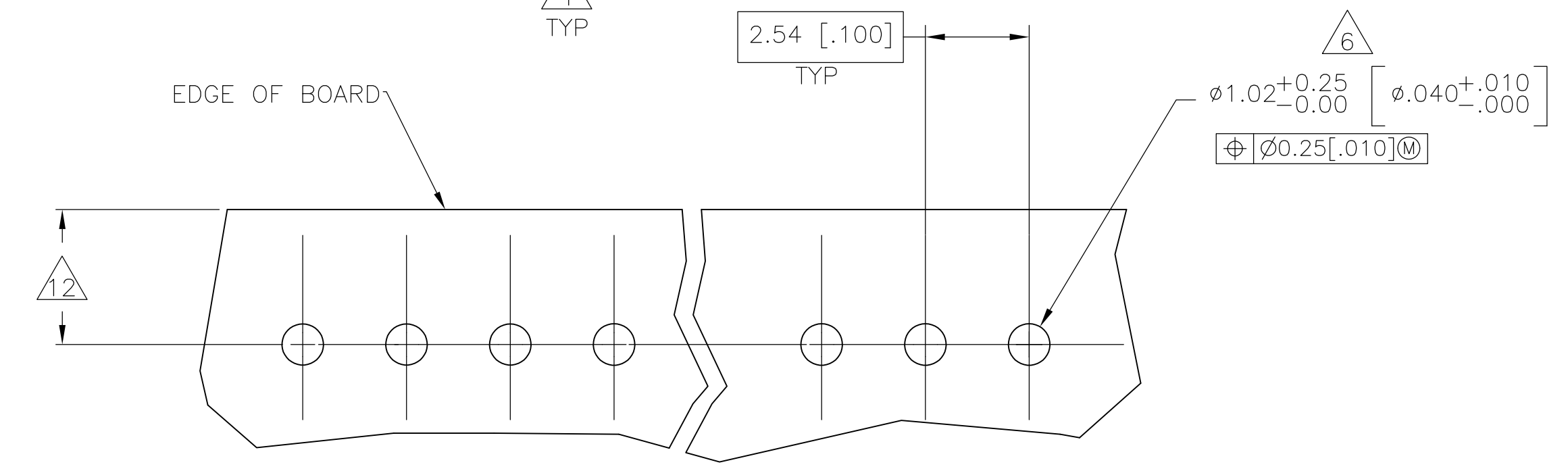
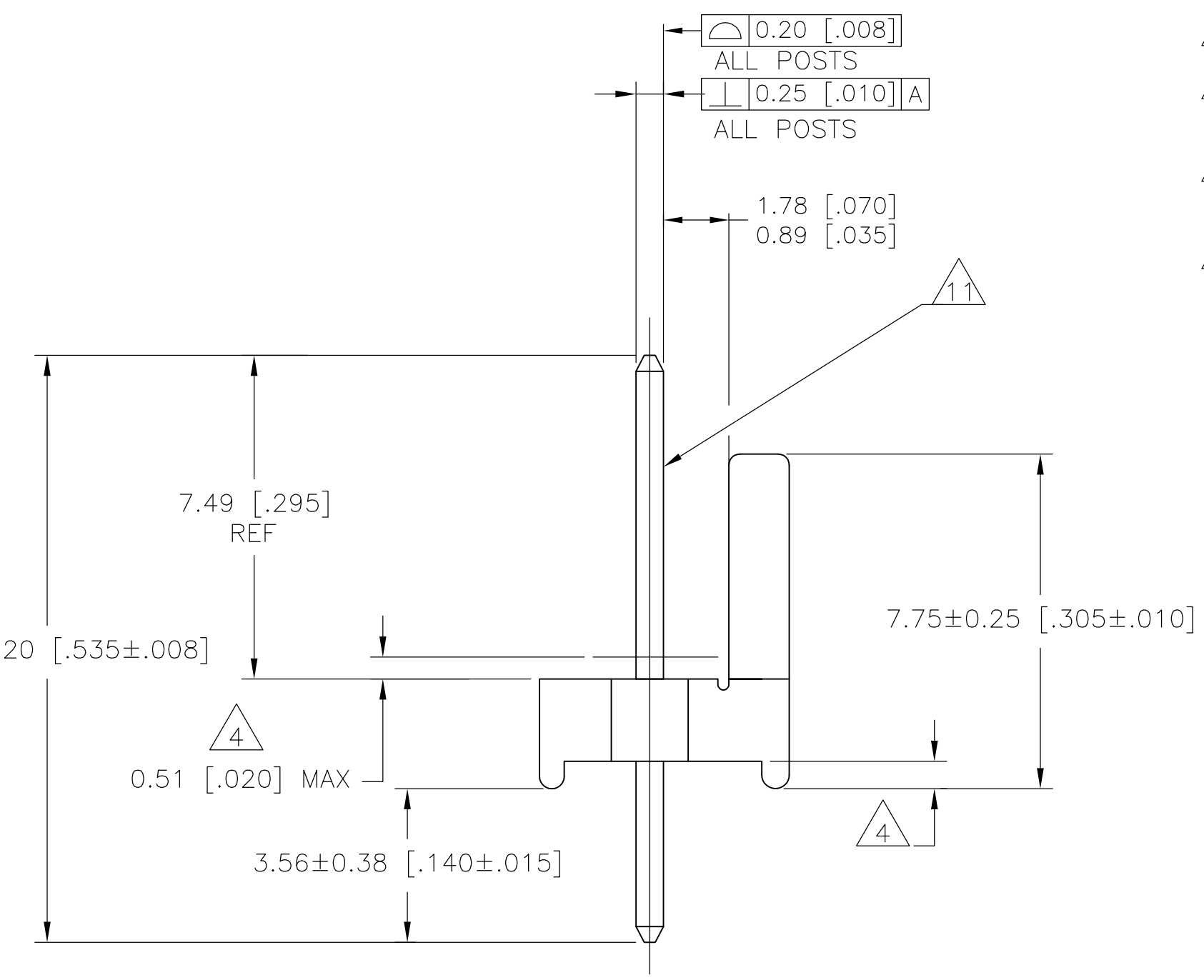
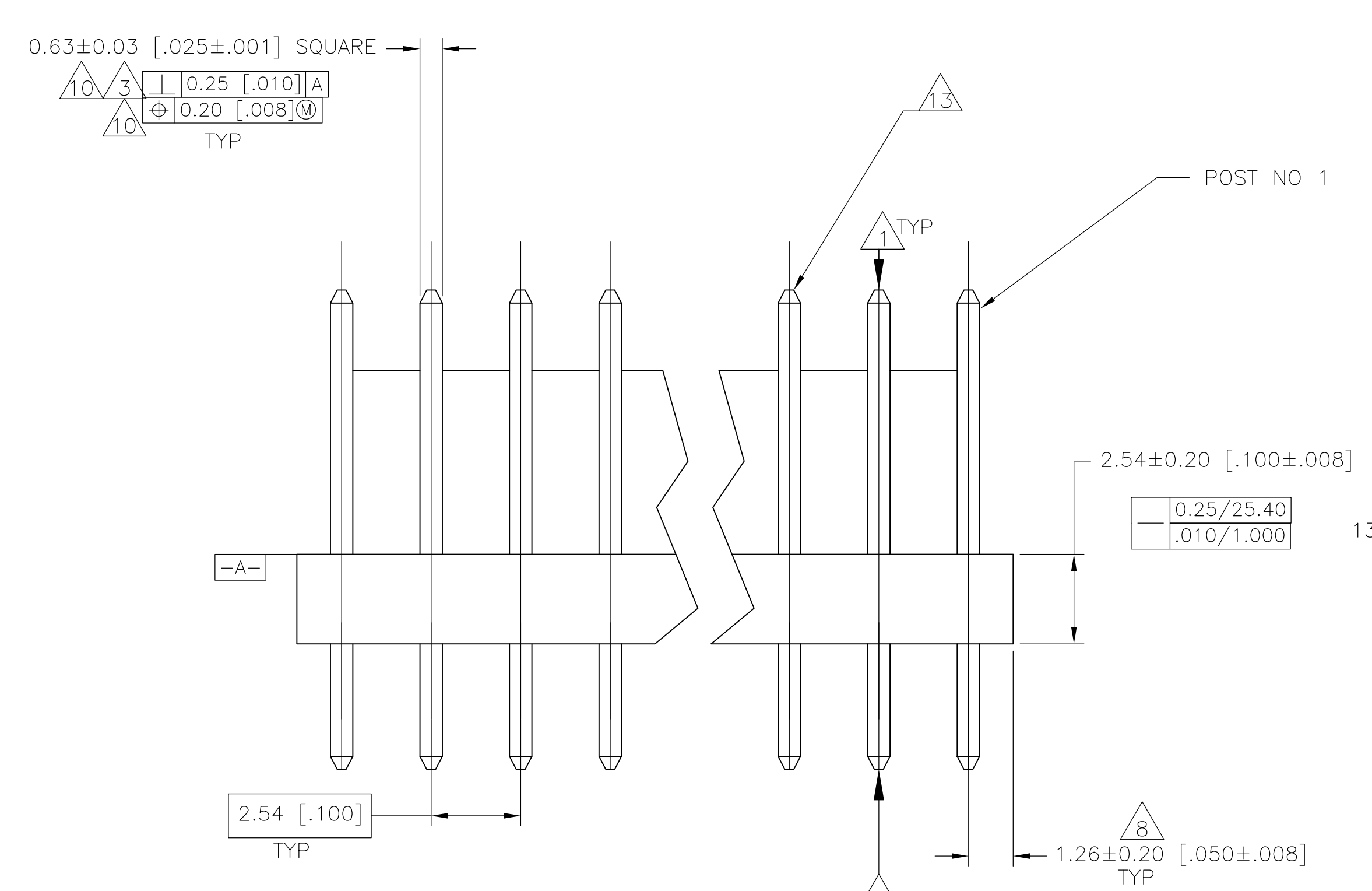
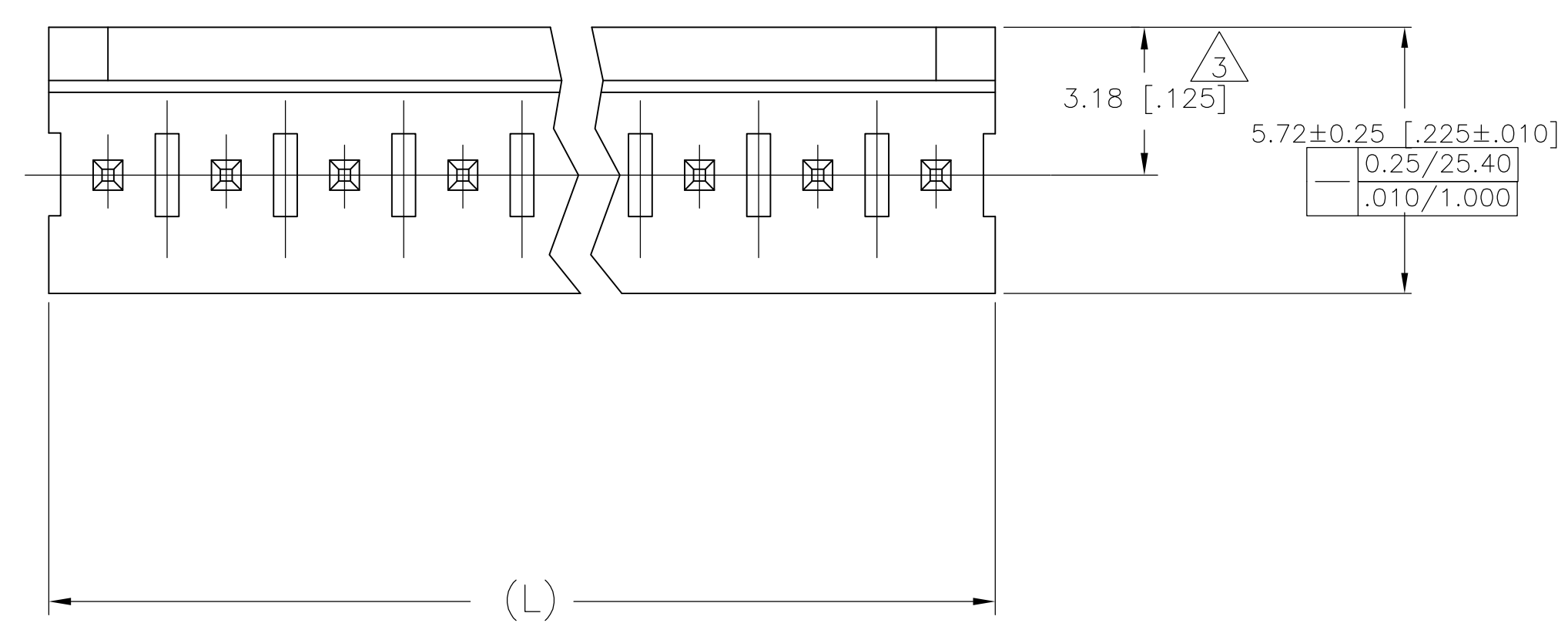
**Customer Support**

- [Email or Chat With Us](#)
- [Find a Phone Number](#)
- [Knowledge Base](#)
- [Manage Your Account](#)

**Keep Me Informed**



LOC		DIST		REVISIONS				
P	LTR	DATE	DESCRIPTION	DATE	DN	APVD		
Y1	REVISED PER	ECO-11-004587		11MAR11	RK	HMR		



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.

MM	[IN]	NO OF POSITIONS	PART NUMBER
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
L			

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm [INCHES]  
 TOLERANCES UNLESS OTHERWISE SPECIFIED:  
 0 PLC ±  
 1 PLC ±  
 2 PLC ±  
 3 PLC ± 0.13 [0.005]  
 4 PLC ±  
 ANGLES ± 0°30'

MATERIAL: 7  
 FINISH: 8

THIS DRAWING IS A CONTROLLED DOCUMENT.  
 DWN: 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  
 APPLICATION SPEC: 640454-8  
 SIZE: A1  
 CASE CODE: 00779  
 DRAWING NO: 640454  
 WEIGHT: -  
 CUSTOMER DRAWING: 8:1  
 SHEET: 1 OF 1  
 REV: Y1

