My Cart | My Part Lists | Sign In/Register | **English** (Change)

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**

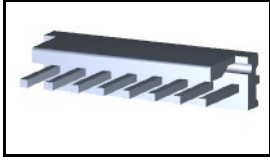# 640445-8 Product Details

Share   Print   Email

640445-8

TE Internal Number: 640445-8

✔ 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-156 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 (94)
▷ 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-156 HEADER ASSEMBLY, FRICTION LOCK, STRAIGHT .04... (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 AL)
- 3D Model (IGES, Version AL)
- 3D Model (STEP, Version AL)

Additional Information:

- Product Information
- Product Line Information

Related Products:

- Tooling
- Mating Products (94)

List all Documents

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

Product Type Features:

- Product Line = MTA-156
- Series = MTA
- Product Type = Connector
- Connector Type = Header
- Termination Method to Wire/Cable = Solder
- Post Size (mm [in]) = 1.14 [.045]
- 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

Housing Features:

- Connector Style = Plug
- Centerline (mm [in]) = 3.96 [0.156]
- Housing Style = Friction Lock
- Housing Material = Polyester PBT GF
- Housing Color = Natural
- Mating Alignment = Without
- UL Flammability Rating = UL 94V-0

Configuration Features:

- Number of Positions = 8
- Post Number(s) Omitted = None
- Backwall/Post Interruption(s) = Without
- Number of Rows = 1

Industry Standards:

Mechanical Attachment:
- Contact Retention = Without
- Mating Retention Type = Friction Lock
- Panel Mount Retention = Without

Electrical Characteristics:
- Contact - Rated Current (A) = 7
- Operating Voltage Reference = AC
- Operating Voltage (VAC) = 600

Termination Features:
- Tail Length (mm [in]) = 3.18 [0.125]

Dimensions:
- Mating Post Length (mm [in]) = 10.16 [0.400]
- PCB Thickness, Recommended (mm [in]) = 1.60 [0.063]

Body Features:
- Header Type = Unshrouded
- Mating Retention = With
- 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]) = 2.54 [100]
- Tail Plating Thickness (µm [µin]) = 2.54 [100]
- Underplate Material = Nickel

- 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

Environmental:
- Operating Temperature (°C [°F]) = -55 – +105 [-67 – +221]

Conditions for Usage:
- Applies To = Printed Circuit Board
- For Use With = MTA .156 Connector Assembly or SL .156 Connector Assembly

Operation/Application:
- Application Use = Wire-to-Board

Packaging Features:
- Packaging Method = Package
- Packaging Quantity = 1

Other:
- Brand = AMP

		REVISIONS			
LOC CM	DIST 00				
P	LTR	DESCRIPTION	DATE	DWN	APVD
	AD1	REVISED PER ECO-13-000775	10JAN13	DZ	YHM

Notes:

1. POST TO WITHSTAND 13 NEWTONS (3LBS.) 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 AMP SOLDERABILITY SPEC. NO. 109-11-2.

6. ONE HOLE MAY BE UNDERSIZED (.065/.060 DIA.) FOR ASSEMBLY RETENTION DURING WAVE SOLDERING.

7. MATERIAL: HEADER-THERMOPLASTIC POLYESTER GLASS-FILLED 94V-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. POST TO BE MEASURED WHEN STRIP IS HELD FLAT.

11. POST MUST WITHSTAND TWO 90° BENDS AGAINST EXTRUSION WITHOUT BREAKING.

12. DIMENSION SHOULD BE .175 MIN WHEN MATING WITH A MTA 156 CONNECTOR ASSEMBLY OR A SL-156 CONNECTOR ASSEMBLY.

13. PIN BURR OF .005 MAX. VERTICAL AND .003 MAX. HORIZONTAL PERMITTED AT POST TIPS ON BOTH ENDS.

14. SPECIAL PACKAGING VARIATION FOR IMPROVED PRODUCT PROTECTION.

Dimensions on drawing:
.180 REF
.300 ±.015
.010/1.000
L REF
.045 ±.001 SQUARE
.008 (M)
.015 A
POST NO. 1
.125 ±.010
.010/1.000
-A-
.078 ±.012 TYP
.156 TYP
.073 ±.010
.010 ALL POSTS
.015 A ALL POSTS
.400 REF
.650 ±.015
.425 ±.010
.030 MAX
.125 ±.015 TYP
EDGE OF BOARD
.156 TYP
Ø.070 +.010 -.000
Ø.010 (M)
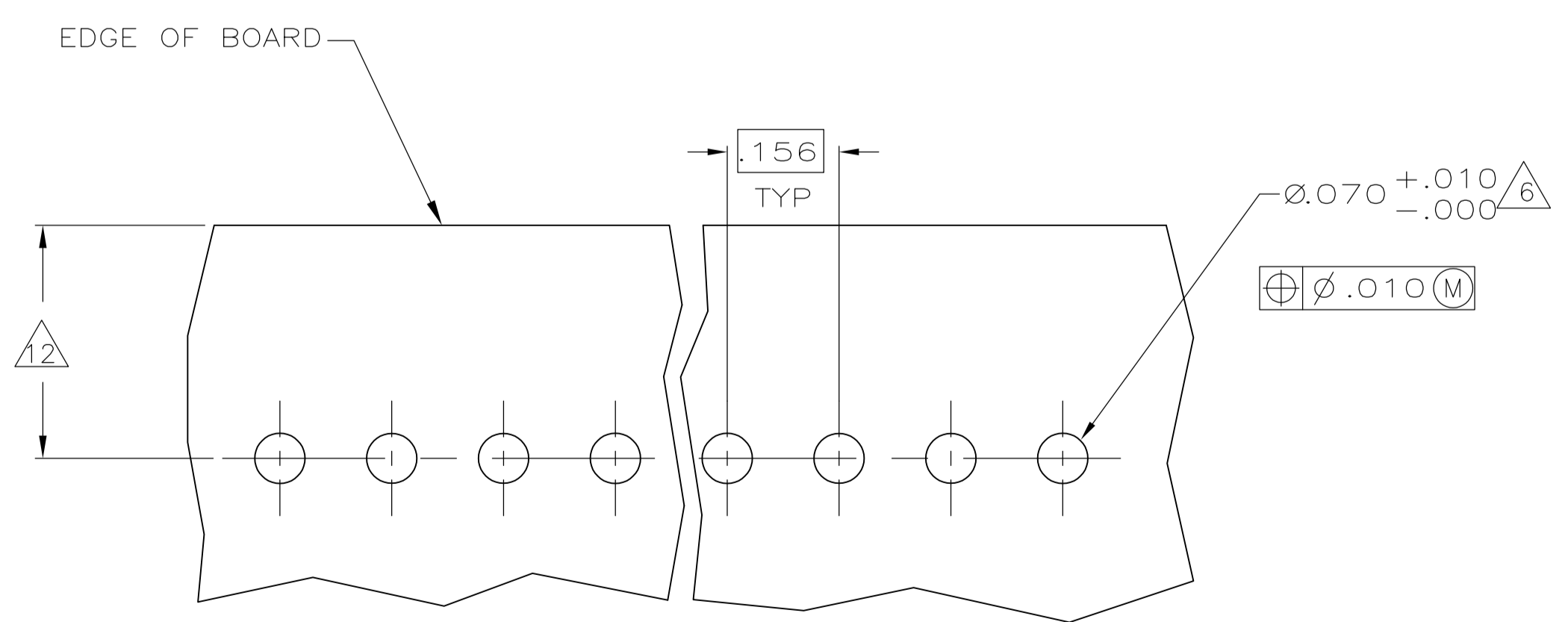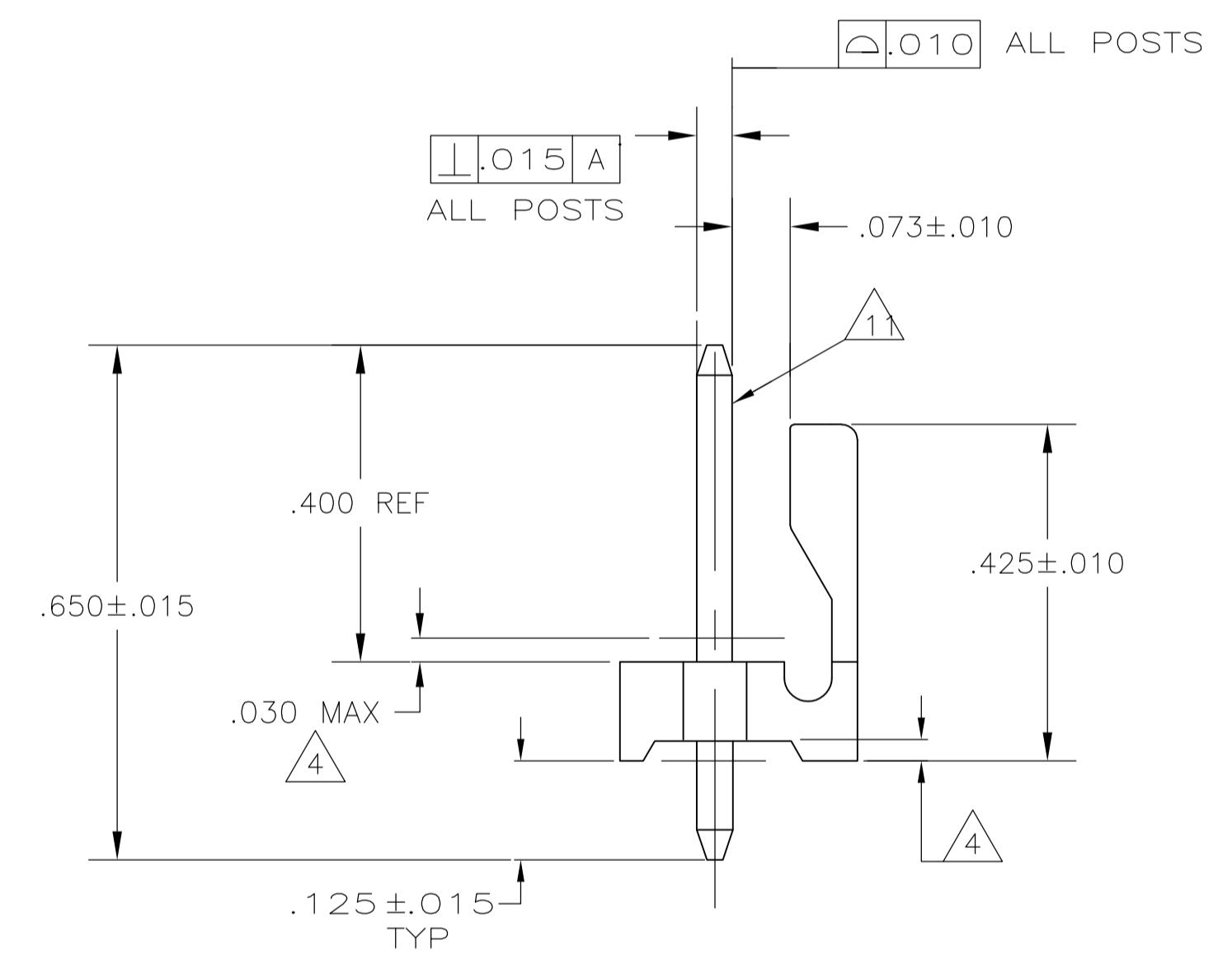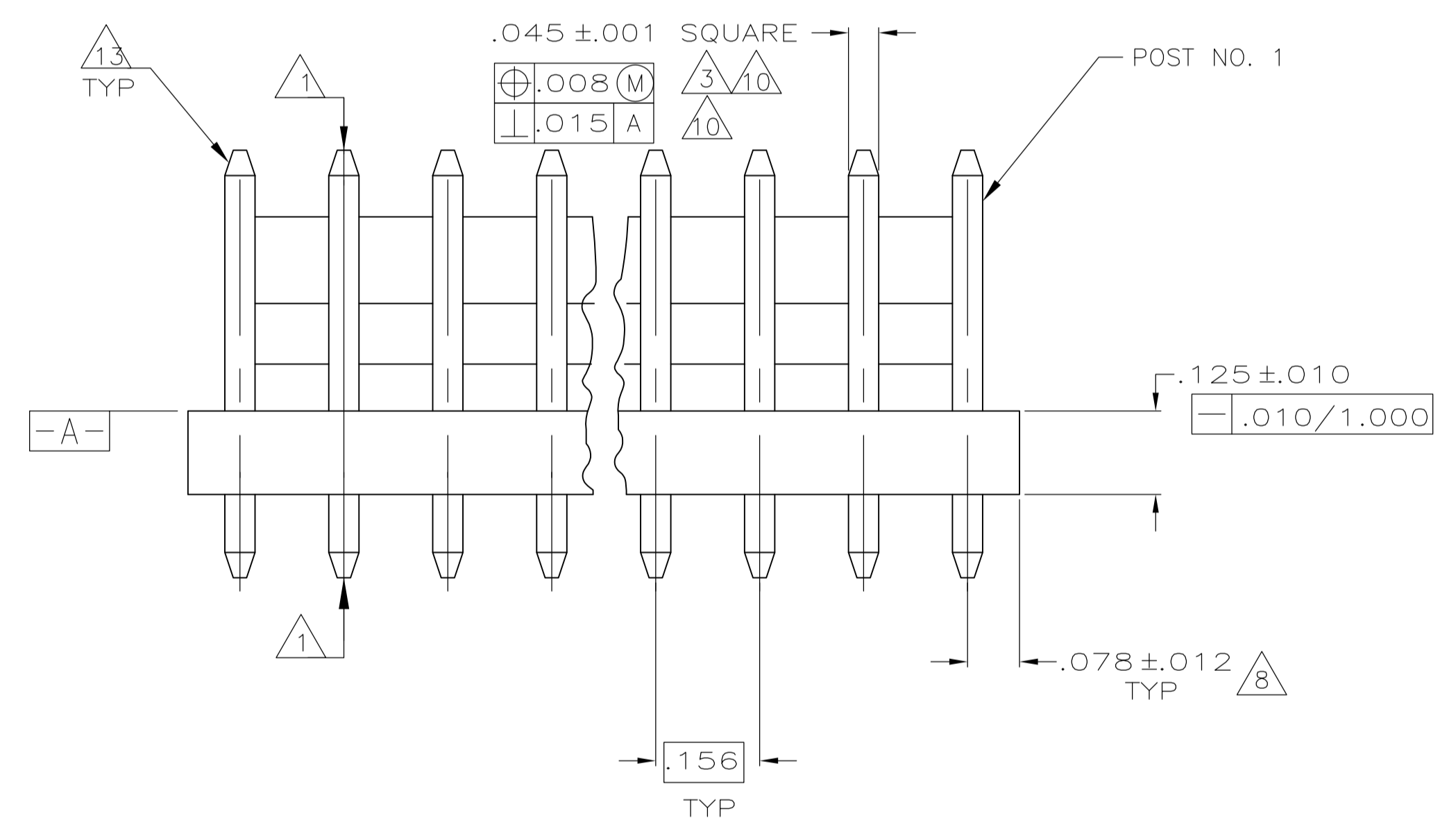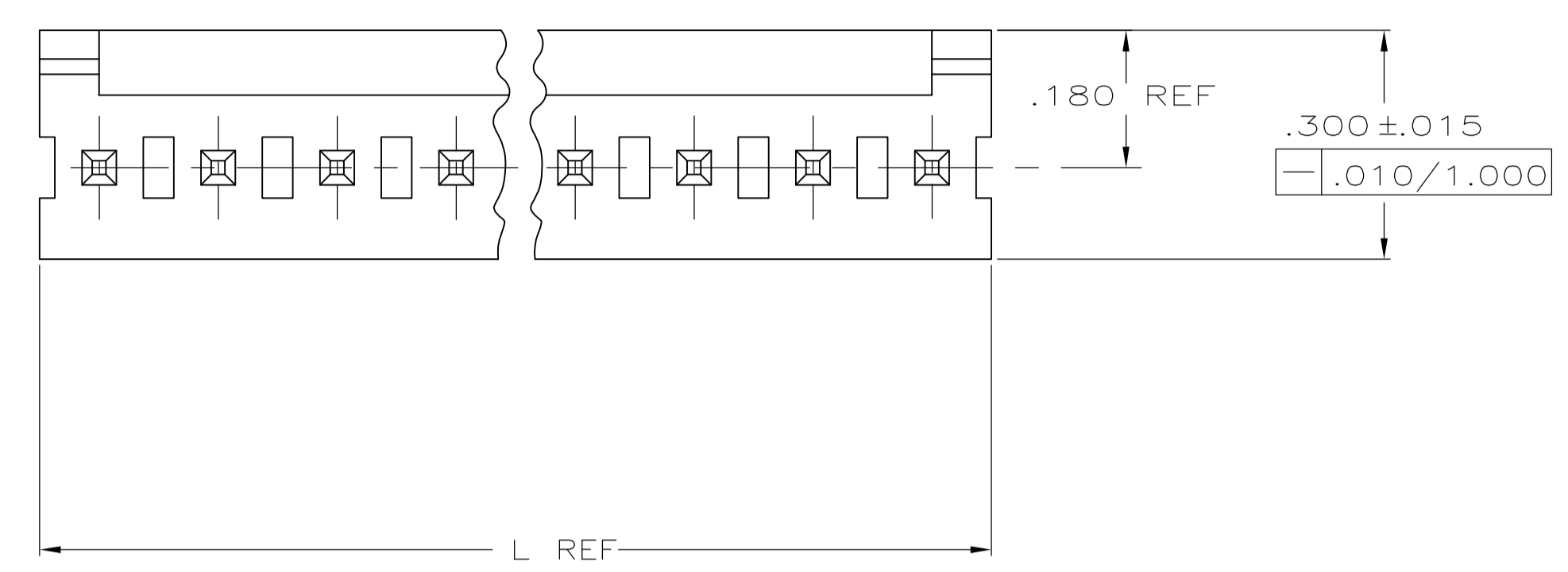
RECOMMENDED MOUNTING HOLE PATTERN
FOR .063 THICK P.C. BOARD

Part Number Table:

MM	[IN] L	NUMBER OF POSITIONS	PART NUMBER
31.70	1.248	8	3-640445-8
95.10	3.744	24	2-640445-4
91.14	3.588	23	2-640445-3
87.17	3.432	22	2-640445-2
83.21	3.276	21	2-640445-1
79.25	3.120	20	2-640445-0
75.29	2.964	19	1-640445-9
71.32	2.808	18	1-640445-8
67.36	2.652	17	1-640445-7
63.40	2.496	16	1-640445-6
59.44	2.340	15	1-640445-5
55.47	2.184	14	1-640445-4
51.51	2.028	13	1-640445-3
47.55	1.872	12	1-640445-2
43.59	1.716	11	1-640445-1
39.62	1.560	10	1-640445-0
35.66	1.404	9	640445-9
31.70	1.248	8	640445-8
27.74	1.092	7	640445-7
23.77	.936	6	640445-6
19.81	.780	5	640445-5
15.85	.624	4	640445-4
11.89	.468	3	640445-3
7.92	.312	2	640445-2

Conversion Table:

.068	1.73	1.000	25.40
.065	1.65	.700	17.78
.063	1.60	.450	11.43
.060	1.52	.425	10.80
.030	0.76	.400	10.16
.015	0.38	.300	7.62
.012	0.30	.180	4.57
.010	0.25	.175	4.45
.008	0.20	.156	3.96
.005	0.13	.125	3.18
.003	0.08	.078	1.98
.001	0.03	.073	1.85
		.070	1.78
[IN]	MM	[IN]	MM

CONVERSION TABLE

Title Block:

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN S. HOOVER	05-NOV-2002
CHK D. BOSSI	05-NOV-2002
APVD D. BOSSI	05-NOV-2002

DIMENSIONS: INCHES
TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±
1 PLC ±
2 PLC ± .005
3 PLC ±
4 PLC ±
ANGLES ±

TE Connectivity

MTA-156 HEADER ASSEMBLY, FRICTION LOCK, STRAIGHT .045 SQUARE POST, TIN PLATED

SIZE A1
CAGE CODE 00779
DRAWING NO C-640445
RESTRICTED TO –

CUSTOMER DRAWING
SCALE 5:1
SHEET 1 OF 1
REV AD1

4805 (3/11)