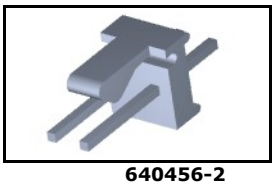
640456-2 Product Details



640456-2

TE Internal Number: 640456-2

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 (76)
- 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 SQ... (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 (76)

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

Product Type Features:

- Product Line = MTA-100
- Series = MTA
- Product Type = Connector
- Connector Type = Header
- Termination Method to Wire/Cable = Solder
- Post Size (mm [in]) = 0.64 [.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

Housing Features:

- Connector Style = Plug
- Centerline (mm [in]) = 2.54 [0.100]
- Housing Style = Friction Lock
- Housing Material = Polyester
- Housing Color = Natural
- Mating Alignment = Without
- UL Flammability Rating = UL 94V-0

Configuration Features:

- Number of Positions = 2
- Post Number(s) Omitted = None
- Backwall/Post Interruption(s) = Without
- Number of Rows = 1

Industry Standards:

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:
- Tail Length (mm [in]) = 3.56 [0.14]

Dimensions:
- Mating Post Length (mm [in]) = 7.49 [0.295]
- PCB Thickness, Recommended (mm [in]) = 1.60 [0.063]

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

- 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 = UL, CSA
- 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 .100 Connector Assembly

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

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

Other:
- Brand = AMP

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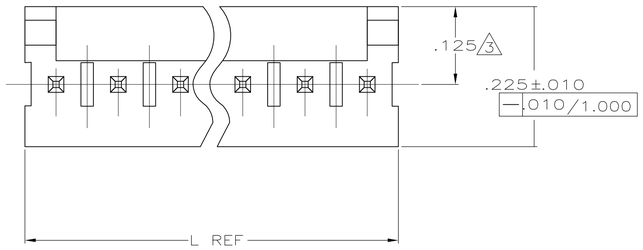
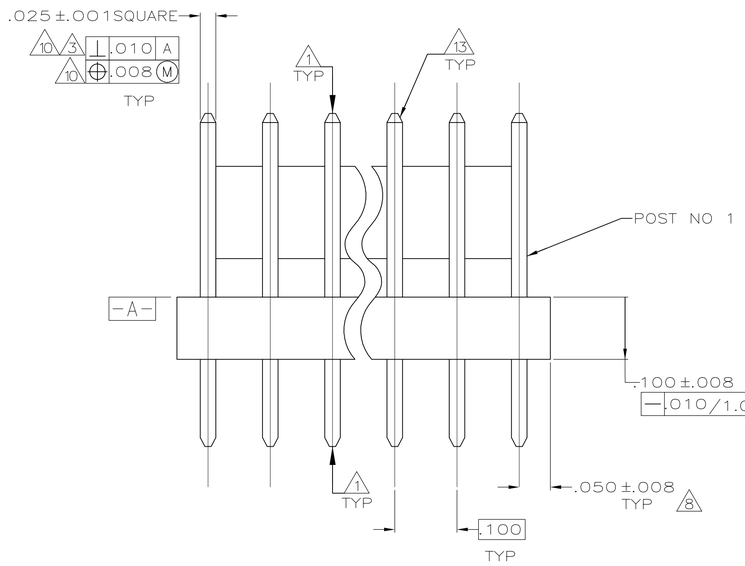
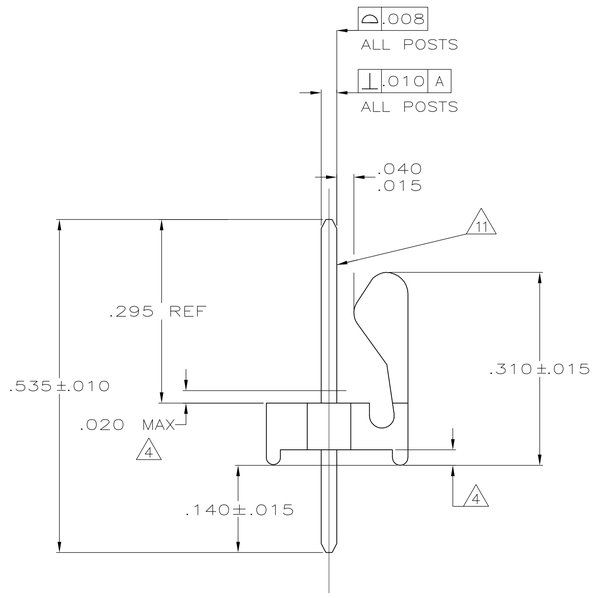
LOC	DIST
CM	00

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	W1	REVISED PER ECO-11-004587	11MAR11	RK	HMR





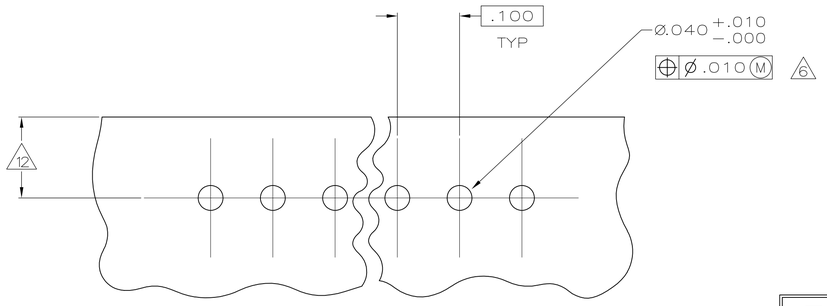


1. POST TO WITHSTAND 13 NEWTONS (3 LBS) MIN. AXIAL FORCE IN BOTH DIRECTIONS SHOWN WITHOUT DISLODGING.
2. TOLERANCES APPLY TO SOLDER SIDE OF BOARD.
3. MEASURED AT SURFACE -A-
4. PLASTIC FLASH PERMITTED IN THIS AREA.
5. PARTS COMPLY WITH AMP SOLDERABILITY SPEC. NO. 109-11-2.
6. ONE HOLE MAY BE UNDERSIZED(.032-.035 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 MUSTS WITHSTAND TWO 90° BENDS AGAINST EXTRUSION WITHOUT BREAKING.
12. DIMENSION SHOULD BE .130 MIN WHEN MATING WITH A MTA 100 CONNECTOR ASSEMBLY OR A CST 100 CONNECTOR.
13. PIN BURR OF .005 MAX. VERTICAL AND .003 MAX. HORIZONTAL PERMITTED AT POST TIPS ON BOTH ENDS.

L IN	L MM	NO OF POSITIONS	PART NUMBER
2.800	71.12	28	2-640456-8
2.700	68.58	27	2-640456-7
2.600	66.04	26	2-640456-6
2.500	63.50	25	2-640456-5
2.400	60.96	24	2-640456-4
2.300	58.42	23	2-640456-3
2.200	55.88	22	2-640456-2
2.100	53.34	21	2-640456-1
2.000	50.80	20	2-640456-0
1.900	48.26	19	1-640456-9
1.800	45.72	18	1-640456-8
1.700	43.18	17	1-640456-7
1.600	40.64	16	1-640456-6
1.500	38.10	15	1-640456-5
1.400	35.56	14	1-640456-4
1.300	33.02	13	1-640456-3
1.200	30.48	12	1-640456-2
1.100	27.94	11	1-640456-1
1.000	25.40	10	1-640456-0
.900	22.86	9	640456-9
.800	20.32	8	640456-8
.700	17.78	7	640456-7
.600	15.24	6	640456-6
.500	12.70	5	640456-5
.400	10.16	4	640456-4
.300	7.62	3	640456-3
.200	5.08	2	640456-2

IN	MM	IN	MM
		1.000	25.40
.035	0.89	.535	13.59
.032	0.81	.310	7.87
.025	0.64	.295	7.49
.020	0.51	.225	5.72
.015	0.38	.140	3.56
.010	0.25	.130	3.30
.008	0.20	.125	3.18
.005	0.13	.100	2.54
.003	0.08	.063	1.60
.001	0.03	.050	1.27
.000	0.00	.040	1.02
IN	MM	IN	MM

CONVERSION TABLE



RECOMMENDED MOUNTING HOLE PATTERN FOR .063 THICK P.C. BOARD 2

METRIC

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ± -
1 PLC ± -
2 PLC ± -
3 PLC ± .005
4 PLC ± -
ANGLES ± 0°30'

MATERIAL 7 FINISH 7

DWN K. WHITAKER 11JUN2004
CHK D. BOSSI 11JUN04
APVD D. BOSSI 11JUN04
PRODUCT SPEC —
APPLICATION SPEC —
WEIGHT —

TE Connectivity

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

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-640456	—

CUSTOMER DRAWING | SCALE 8:1 | SHEET 1 OF 1 | REV W1