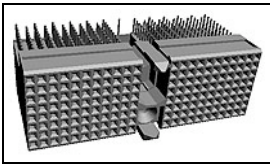


646442-1 Product Details

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646442-1

TE Internal Number: 646442-1

Active

[View 3D PDF](#)

2mm Hard Metric PCB Mount Connectors (Z-PACK 2mm HM)

Not EU RoHS or ELV Compliant (Find RoHS Compliant Alternates)

Product Highlights:

- Connector
- Connector Assembly
- Connector Style = Receptacle
- Type = Type D, 25 Column
- Interface Type = 2mm HM

[View all Features](#)

Quick Links

- ▶ [Pricing & Availability](#)
- ▶ [Search for Tooling](#)
- ▶ [View Mating Products \(2\)](#)
- ▶ [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:

- [R/A RECEPTACLE ASSY, 176 POSN, TTR 8 ROW, TYPE D, Z-...](#) (PDF, English)

Catalog Pages/Data Sheets:

- None Available

Product Specifications:

- [Connector, Z-PACK, 8 Row, 2mm HM](#) (PDF, English)

Application Specifications:

- [Z-PACK 2mm HM Interconnection System for Board-to-Bo...](#) (PDF, English)

Instruction Sheets:

- None Available

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

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

[List all Documents](#)

Additional Information:

- [Product Line Information](#)

Related Products:

- [Tooling](#)
- [Mating Products \(2\)](#)

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

Product Type Features:

- Product Type = Connector
- Connector Type = Connector Assembly
- [PCB Mounting Orientation](#) = Right Angle

Mechanical Attachment:

- [Board Mount](#) = Free Board
- AMP Standard Option Number = 1

Termination Features:

- [Interface Type](#) = 2mm HM
- Termination End Plating = Tin-Lead over Nickel

Dimensions:

- Module Length (mm [in]) = 48.00 [1.891]

Body Features:

- Type = Type D, 25 Column

Contact Features:

- Contact Configuration = ACTION PIN Post, Signal
- [Feedthrough Post Length \(mm \[in\]\)](#) = 3.30 [0.130]
- [CompactPCI](#) = Yes
- [Contact Plating, Mating Area, Material](#) = Gold (30)
- [Grounding Contact](#) = Without
- Contact Base Material = Phosphor Bronze

Housing Features:

- Connector Style = Receptacle
- [Mating Alignment](#) = With
- [Mating Alignment Type](#) = Multi-Purpose Center
- Housing Color = Gray
- Housing Material = Polyester GF
- UL Flammability Rating = UL 94V-0

Configuration Features:

- [Number of Rows](#) = 8
- [Number of Positions](#) = 176
- [Crosstalk Version](#) = Standard
- [Shielded](#) = No
- Rows Loaded = F, E, D, C, B, A, G, H

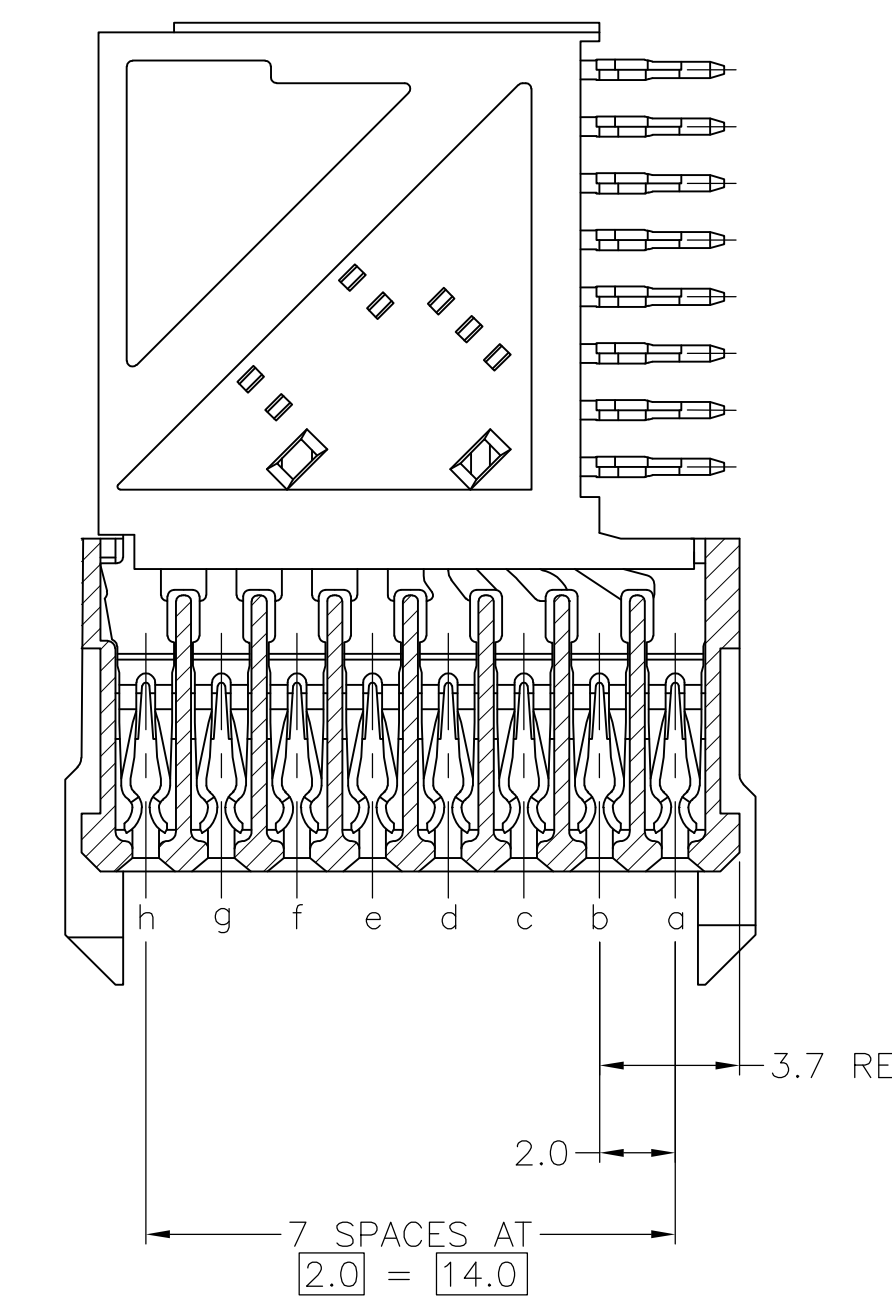
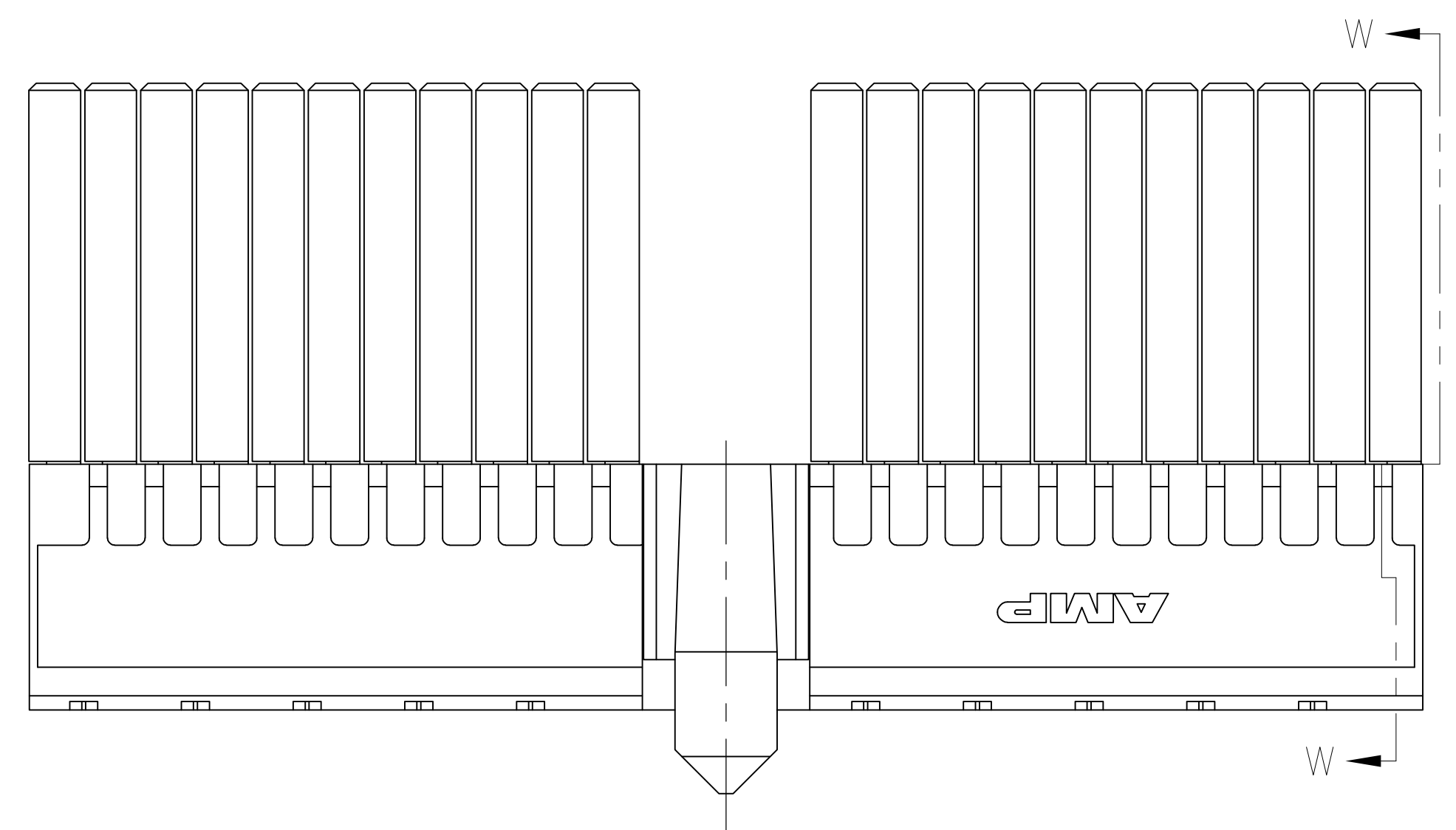
Industry Standards:

- [RoHS/ELV Compliance](#) = Not ELV/RoHS compliant
- [Lead Free Solder Processes](#) = Not relevant for lead free process

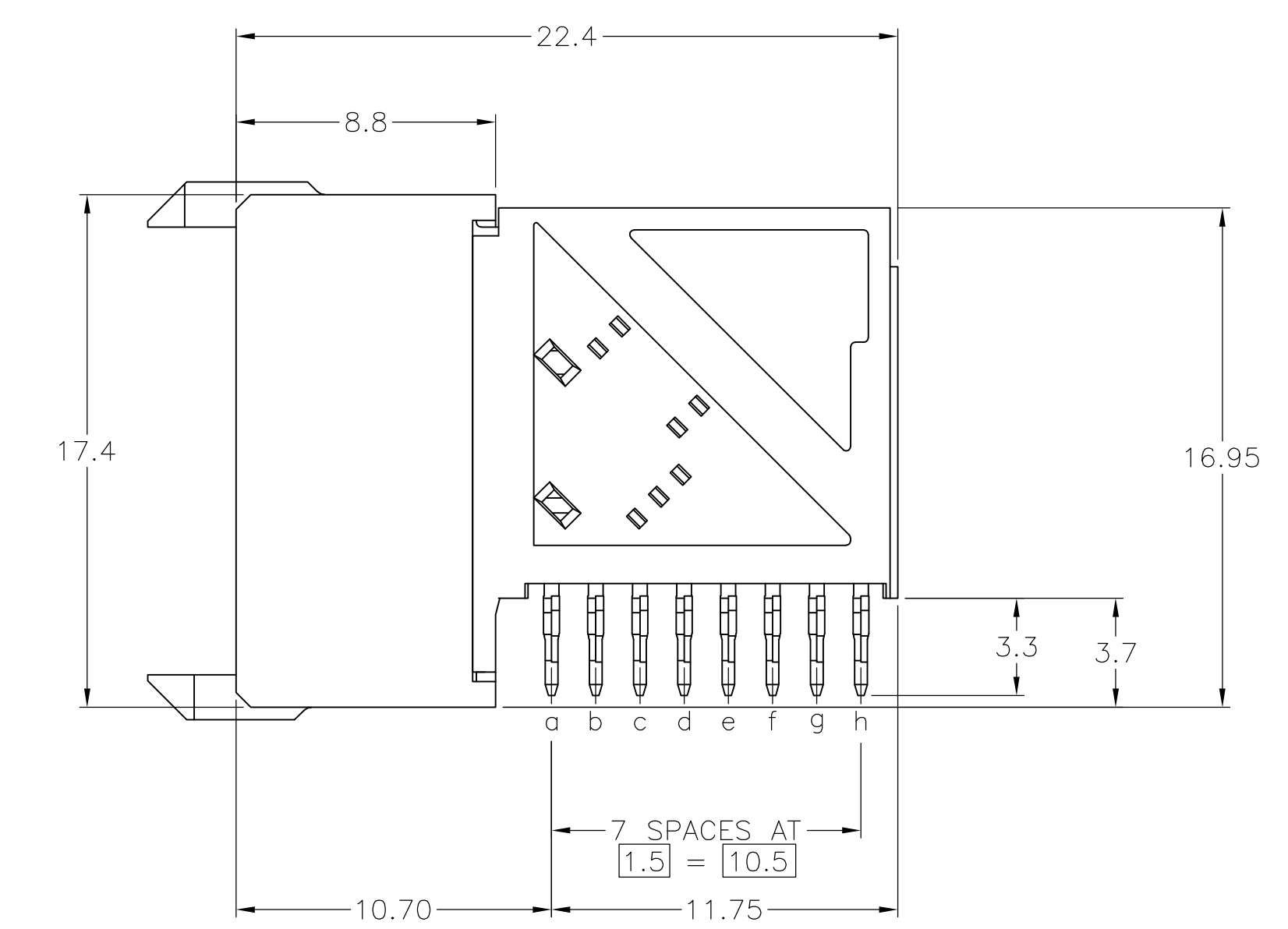
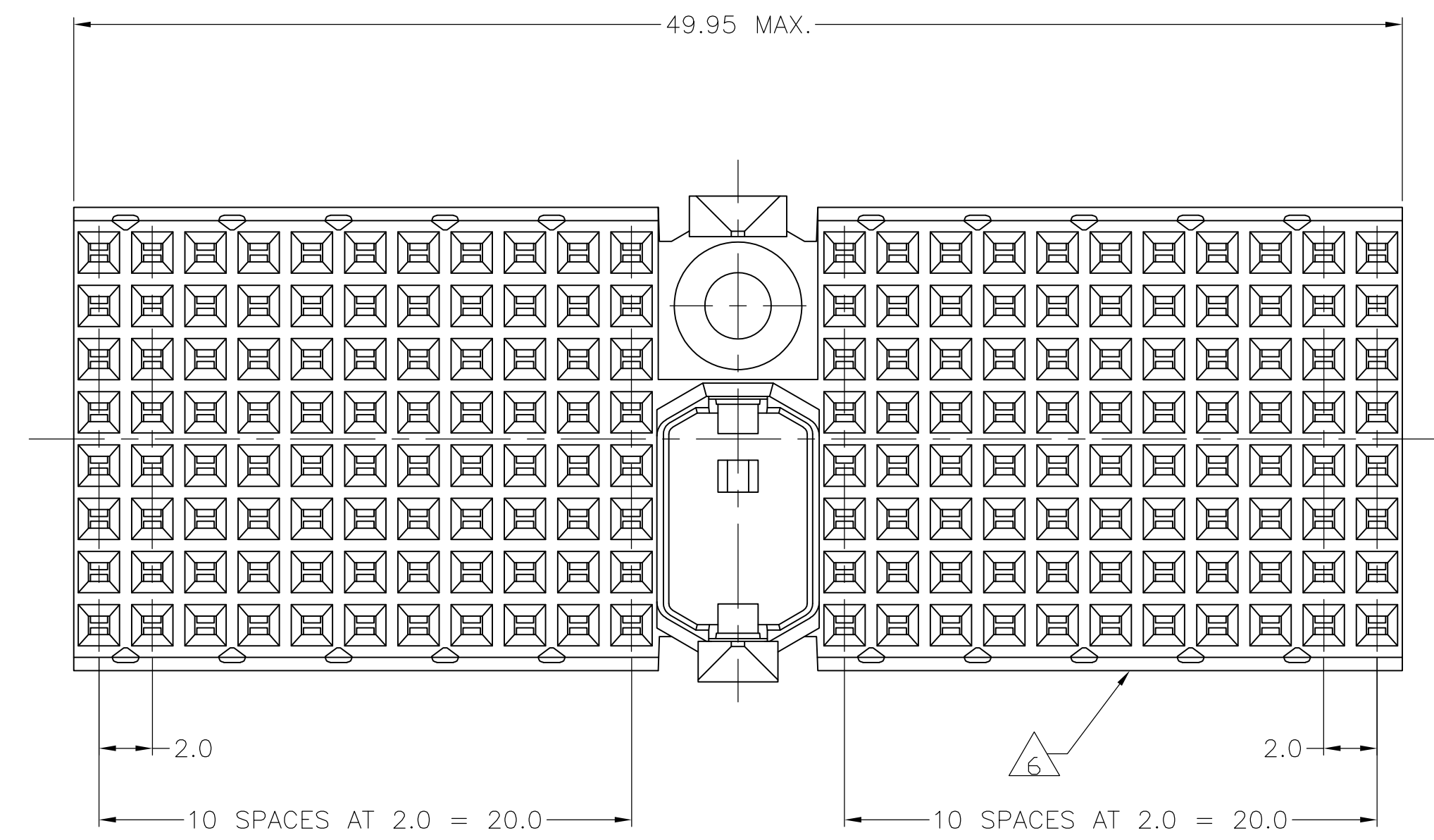
Other:

- Brand = AMP

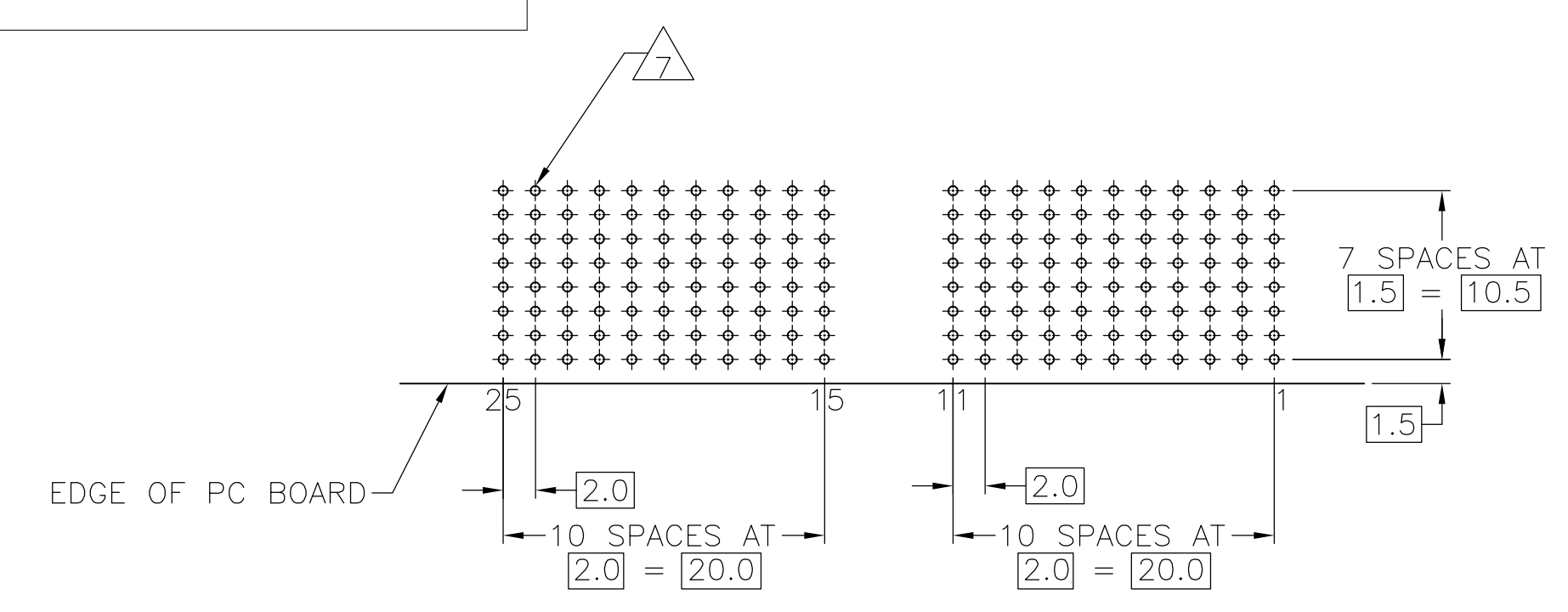
LOC		DIST		REVISIONS			
AD	00	REV	DATE	BY	CHK	APP	REV
H1		REV PER ECO-10-005956	12MAR2010	JY	SY		
J		ECR-10-018652	10SEP10	JS	MQW		
K		ECO-11-024491	13DEC11	SY	MQW		
L		ECR-12-010544	05DEC12	SY	AC		



SECTION W-W



PLATED THRU HOLES PARAMETERS
 REFERENCE APPLICATION SPECIFICATION



RECOMMENDED PCB-HOLE LAYOUT
 COMPONENT SIDE SHOWN
 SCALE 2.5:1

- 1 MATERIAL:
CONTACT: PHOSPHOR BRONZE.
HOUSING: GLASS-FILLED POLYESTER.
- 2 GENERAL PLATING SPECIFICATION: UNDERPLATING
(ENTIRE CONTACT): 1.27µm MIN NICKEL AND ACTION
PIN: 0.5µm MIN TIN/LEAD.
FOR PLATING OF MATING SURFACES SEE APPLICABLE
SPECIFICATION REFERENCE FOR EACH DASH NUMBER.
- 3 CONFORMS TO ALL TESTING ACCORDING TO IEC 61076-4-101
PERFORMANCE LEVEL 2.
- 4 CONFORMS TO ALL TESTING ACCORDING TO IEC 61076-4-101
PERFORMANCE LEVEL 1.
- 5 CONNECTOR TESTED AND QUALIFIED AGAINST TELCORDIA GR-1217-CORE QUALITY LEVEL 3,
CENTRAL OFFICE APPLICATIONS.
- 6 CONNECTOR MARKED WITH PART NUMBER AND DATE CODE.
ADDITIONAL CHARACTERS OR MARKINGS, AS WELL AS THE LOCATION OF THE MARKINGS,
MAY BE ADDED FOR TRACEABILITY BASED UPON MANUFACTURERS DISCRETION.
- 7 PLATED-THROUGH HOLES AT 2x2mm SQUARE GRID
PATTERN DEFINED BY CONTACT LAYOUT.
- 8 CONNECTOR LUBRICATED WITH BELCORE APPROVED LUBRICANT,
TECHNICAL REFERENCE: TR-NWT-001217 ISSUE 1, SEP 1992.
- 9 0.76µm MIN GOLD PLATING AT MATING SURFACES.

FINISH	PART NUMBER
2 3 9	3-646442-0
2 5 8	646442-9
2 4	646442-4
2 3	646442-1

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:	DIN B CARBO 06DEC05	Tyco Electronics Corporation
mm	0-PLC ±	CHK G SKIPPER 06DEC05	Harrisburg, PA 17105-3608
	1-PLC ±0.1	APPV G SKIPPER 06DEC05	NAME R/A RECEPTACLE ASSY, 176 POSN, TTR
	2-PLC ±	PRODUCT SPEC	8 ROW, TYPE D, Z-PACK 2mm HM
	3-PLC ±	APPLICATION SPEC	SIZE A1
	4-PLC ±	WEIGHT	CAGE CODE 00779
MATERIAL	FINISH SEE TABLE	CUSTOMER DRAWING	DRAWING NO 646442
		SCALE 5:1	SHEET 1 OF 1