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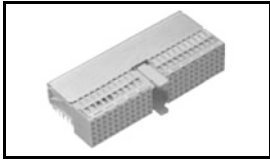
5100147-1 Product Details   ➕ Share   🖨 Print   ✉ Email

5100147-1

TE Internal Number: 5100147-1

✔ Active

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

🍃 Always EU RoHS/ELV Compliant

(Statement of Compliance)

Product Highlights:
- Connector
- Connector Assembly
- Connector Style = Receptacle
- Type = Type A
- Interface Type = 2mm HM

View all Features

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Documentation & Additional Information

Product Drawings:
- Z-PACK 2mm HM TYPE A 110 POS. FEMALE CONNECTOR (PDF, English)

Catalog Pages/Data Sheets:
- None Available

Product Specifications:
- Z-Pack 2 mm HM CONNECTORS (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 B)
- 3D Model (IGES, Version B)
- 3D Model (STEP, Version B)

Additional Information:
- Product Line Information

Related Products:
- Tooling

List all Documents

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 over Nickel

Dimensions:
- Module Length (mm [in]) = 50.00 [1.968]

Housing Features:
- Connector Style = Receptacle
- Mating Alignment = With
- Mating Alignment Type = Multi-Purpose Center
- Housing Color = Gray
- Housing Material = Polyester - GF

Configuration Features:
- Number of Rows = 5
- Number of Positions = 110
- Crosstalk Version = Standard
- Shielded = No
- Rows Loaded = A, B, C, D, E

Industry Standards:
- RoHS/ELV Compliance = RoHS compliant, ELV

Body Features:
- Type = Type A

Contact Features:
- Contact Configuration = Signal
- Feedthrough Post Length (mm [in]) = 3.30 [0.130]
- CompactPCI = Yes
- Contact Plating, Mating Area, Material = Performance-Based
- Grounding Contact = Without
- Contact Style = Short Tail
- Contact Base Material = Phosphor Bronze

compliant
- Lead Free Solder Processes = Not relevant for lead free process
- RoHS/ELV Compliance History = Always was RoHS compliant
- UL Flammability Rating = UL 94V-0

Packaging Features:
- Packaging Quantity = 11

Other:
- Brand = AMP
- Comment = Connector conforms to all testing according to IEC 61076-4-101, Performance Level 2.

	REVISIONS				
LOC H	DIST —				
P	LTR	DESCRIPTION	DATE	DWN	APVD
	E	ECO-12-003005	22FEB2012	SY	MQW

25   15   11   1

B   A

9,6

0,7

e d c b a

SECTION A-A

3,7 REF.
4,125 REF.
4x2,0=8,0

9,6
12,25
SECTION B-B

9,6
12,25
SECTION B-B

5100147

49.95 MAX

21,9   21,9

11,4

2,0

10x2,0=20,0   10x2,0=20,0

24x2,0=48,0

20,2

8,8

10,95

3,3 3,7

2,0   4x2,0=8,0

10,8   9,4
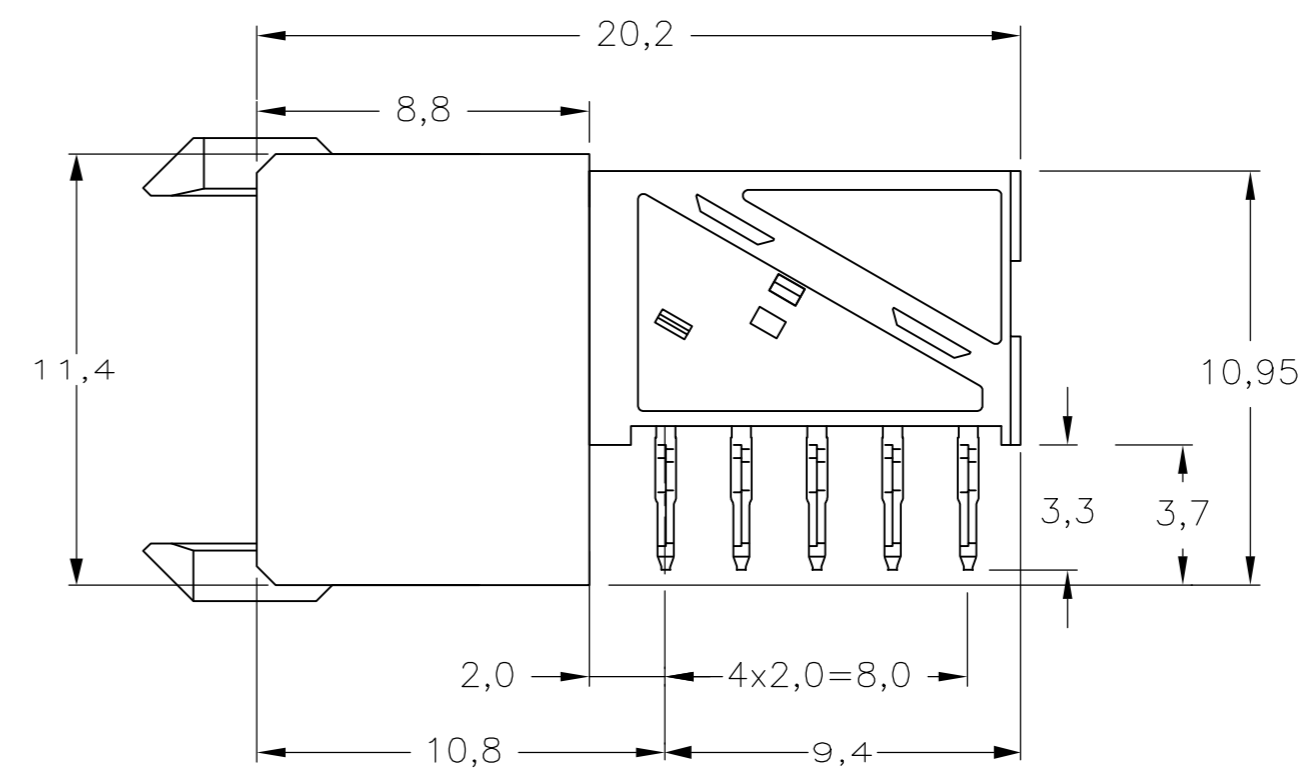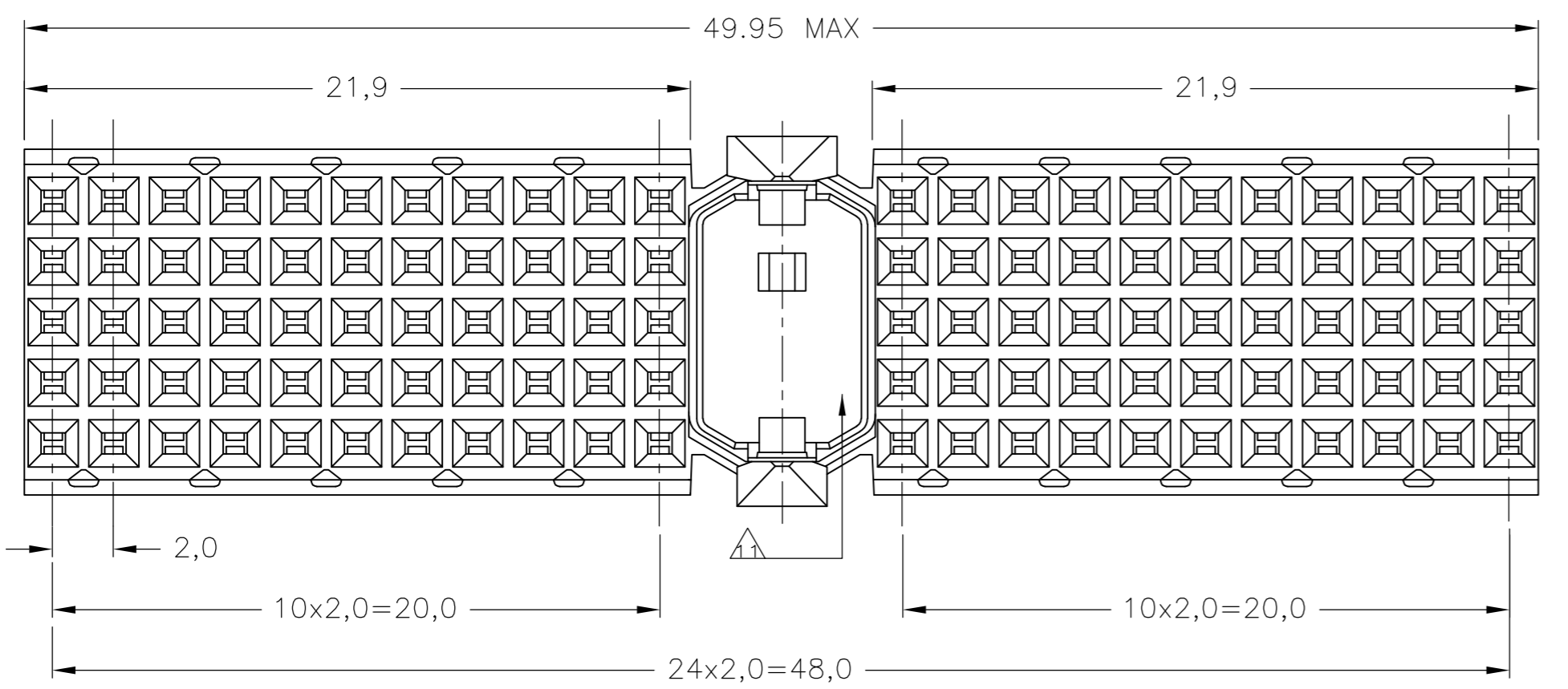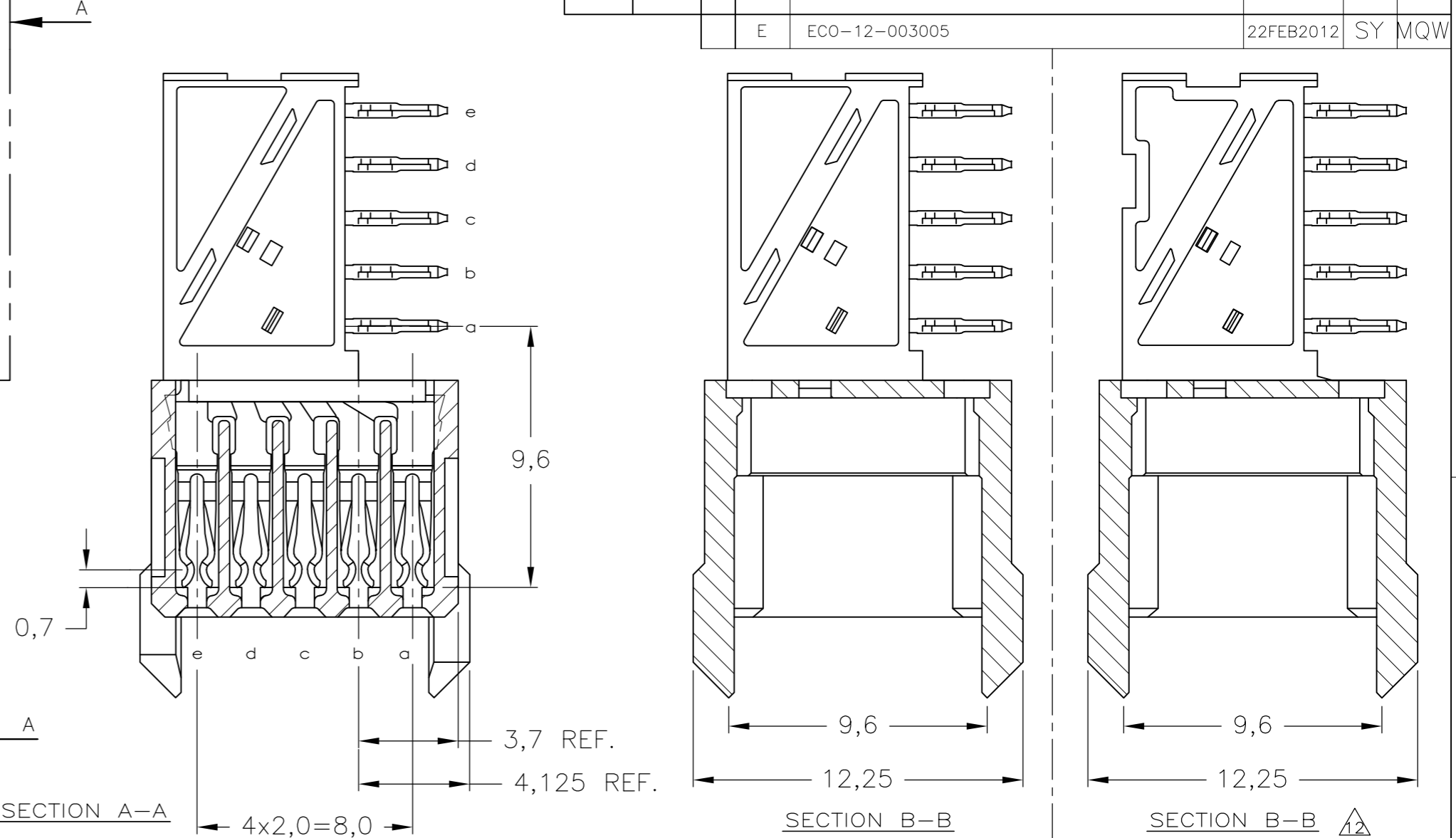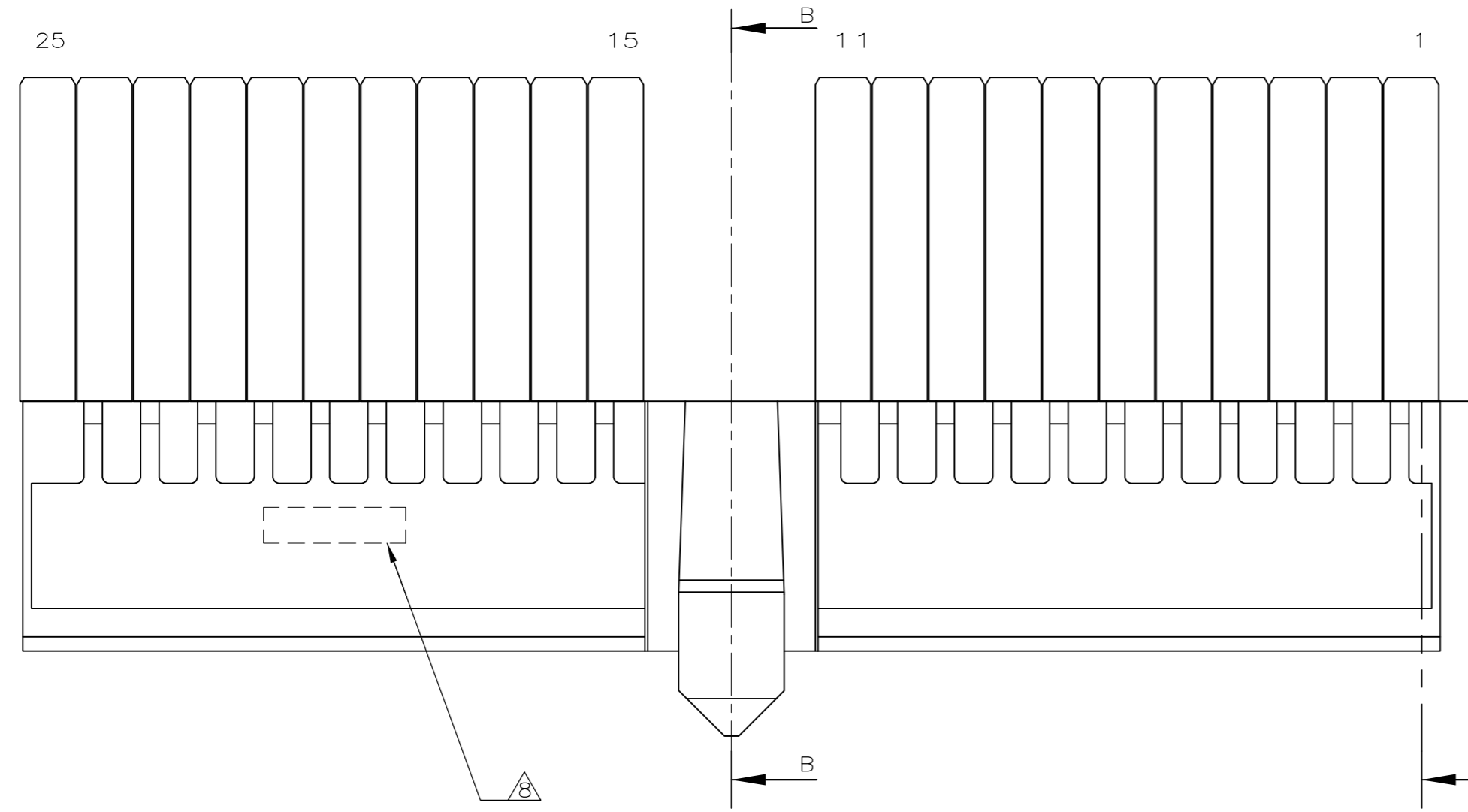
NOTES:

1. MATERIAL CONTACT; PHOSPHORBRONZE
   MATERIAL HOUSING; GLASSFILLED POLYESTER (GRAY) UL-RATING 49V0

2. GENERAL PLATING SPECIFICATION: UNDERPLATING (ENTIRE CONTACT): 1,27µm NICKEL MIN.
   AND ACTION PIN: 0,5µm TIN MIN.
   FOR PLATING OF MATING SURFACES SEE APPLICABLE SPECIFICATION REFERENCE FOR
   EACH DASH NUMBER.

3. CONFORMS TO ALL TESTING ACCORDING IEC 61076-4-101 PERFORMANCE LEVEL 2.

4. CONFORMS TO ALL TESTING ACCORDING IEC 61076-4-101 PERFORMANCE LEVEL 1.

5. CONNECTOR TESTED AND QUALIFIED AGAINST TELCORDIA GR-1217-CORE QUALITY LEVEL III,
   CENTRAL OFFICE APPLICATIONS.

6. CONNECTOR TESTED AND QUALIFIED AGAINST TELCORDIA GR-1217-CORE QUALITY LEVEL III,
   UNCONTROLLED ENVIRONMENT APPLICATIONS.

7. CONNECTOR LUBRICATED WITH TELCORDIA GR-1217-CORE APPROVED LUBRICANT.

8. CONNECTOR MARKED WITH PARTNUMBER AND DATECODE.
   THE MARKING CAN APPEAR ON THE FRONT SIDE OR ON THE BACK SIDE.

9. PLATED-THROUGH HOLES AT 2x2mm SQUARE GRID. 110 HOLES.

10. FITS WITH INTEGRATED GROUND RETURN UPPERSHIELD, BASIC P.N. 5338107
    AND INTEGRATED GROUND RETURN LOWERSHIELD, BASIC P.N. 5338108

11. AREA RESERVED FOR CODING KEY, BASIC P.N. 100526

12. CONNECTOR ASSEMBLED WITH ALTERNATE FEMALE CONTACTS.

13. 0.76µm MIN. GOLD PLATING AT MATING SURFACES.

10X 2,0 = 20,0   10X 2,0 = 20,0

8,0

⌖ 0,05
ALL HOLES

e d c b a

4x 2,0 = 8,0

25   15   11   1

EDGE OF P.C.BOARD

1,5
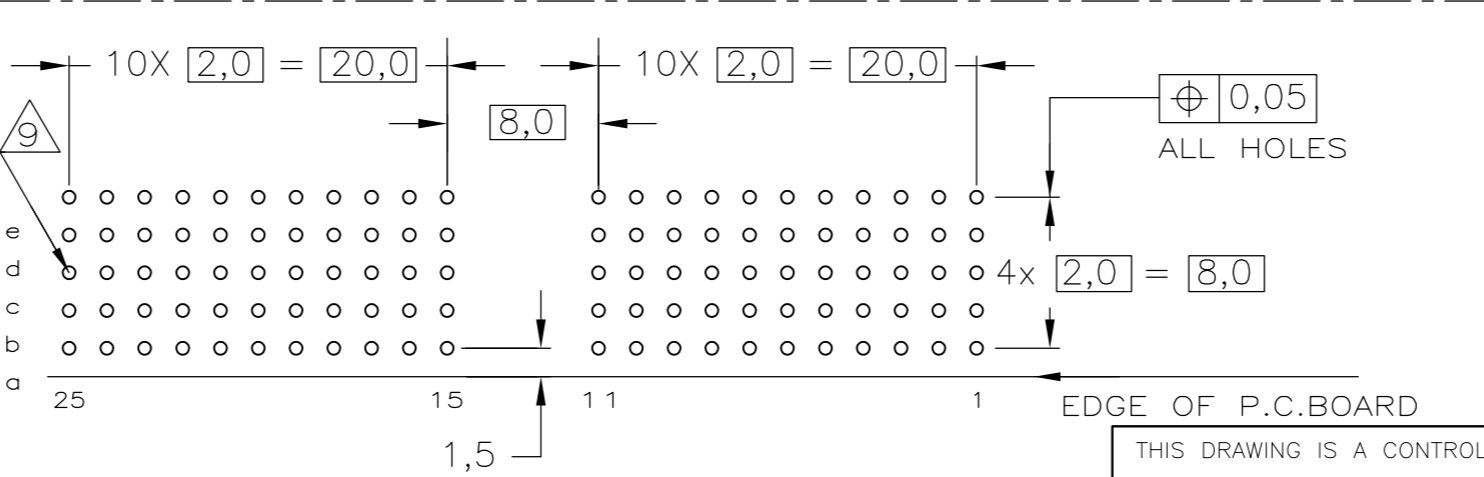
SCALE 2,5:1
COMPONENT SIDE AS SHOWN
RECOMMENDED PCB-HOLE LAY-OUT

P.C.B. HOLE DIM. ACTION PIN
FOR DETAILS SEE
APPLICATION SPECIFICATION

2 3 13	1		3-5100147-0
2 6 7	1		1-5100147-9
2 5 7	1		5100147-9
2 4	1		5100147-4
2 3	1		5100147-1
FINISH		MATERIAL	PARTNUMBER

DWN	K.N.KIRAN	05AUG2004
CHK	B.MOOIJ	22SEP2004
APVD	B.MOOIJ	22SEP2004

DIMENSIONS: mm

TOLERANCES UNLESS
OTHERWISE SPECIFIED:
0 PLC ±
1 PLC ±
2 PLC ±   ±0.2
3 PLC ±
4 PLC ±
ANGLES ±

PRODUCT SPEC
108-19082

APPLICATION SPEC
114-19029

MATERIAL —   FINISH —

WEIGHT —

≡TE   TE Connectivity

NAME
Z-PACK 2mm HM TYPE A
110 POS. FEMALE CONNECTOR
—

SIZE A2	CAGE CODE 00779	DRAWING NO C-5100147		RESTRICTED TO —

CUSTOMER DRAWING

SCALE 5:1   SHEET 1 of 1   REV E

1471-9 (3/11)