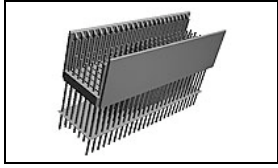# 100141-1 Product Details

100141-1

TE Internal Number: 100141-1

✔ Active

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 = Plug
- Type = Type B, 25 Column
- Interface Type = 2mm HM

Documentation & Additional Information

Product Drawings:
- MALE ASSEMBLY, Z-PACK 2mm HM, TYPE B (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:
- INSERTION TOOL FOR Z-PACK 2mm HM CONN. (PDF, Japanese)

CAD Files: (CAD Format & Compression Information)
- 2D Drawing (DXF, Version N)
- 3D Model (IGES, Version N)
- 3D Model (STEP, Version N)

Additional Information:
- Product Line Information

Related Products:
- Tooling
- Mating Products (1)

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

Product Type Features:
- Product Type = Connector
- Connector Type = Connector Assembly
- PCB Mounting Orientation = Vertical

Mechanical Attachment:
- Board Mount = Fixed Board
- Front Mating Level = Level 1

Electrical Characteristics:
- Shielded = No

Termination Features:
- Interface Type = 2mm HM
- Termination End Plating = Tin-Lead over Nickel

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

Body Features:
- Type = Type B, 25 Column

Contact Features:
- Contact Configuration = ACTION PIN Post, Signal
- Feedthrough Post Length (mm [in]) = 3.70 [0.145]
- CompactPCI = No
- Contact Plating, Mating Area, Material = Gold (30)
- Grounding Contact = Without
- Contact Style = Short Tail
- Contact Base Material = Phosphor Bronze

Housing Features:
- Connector Style = Plug
- Mating Alignment = Without
- Housing Color = Gray
- Housing Material = PBT - GF
- UL Flammability Rating = UL 94V-0

Configuration Features:
- Number of Rows = 5
- Number of Positions = 125
- Crosstalk Version = Standard
- Rows Loaded = E, C, B, A, D

Industry Standards:
- RoHS/ELV Compliance = Not ELV/RoHS compliant
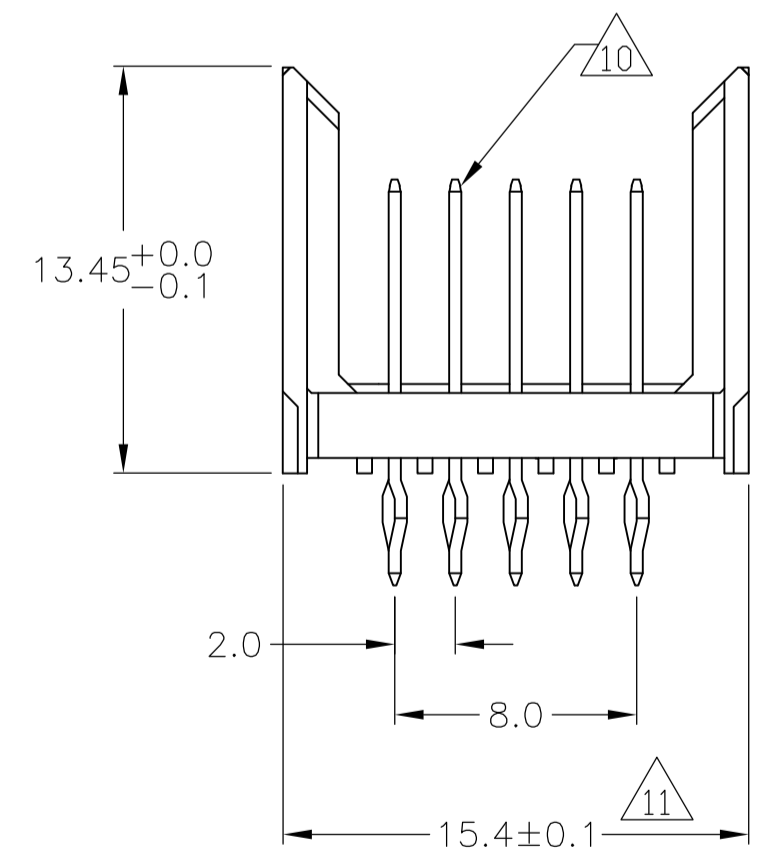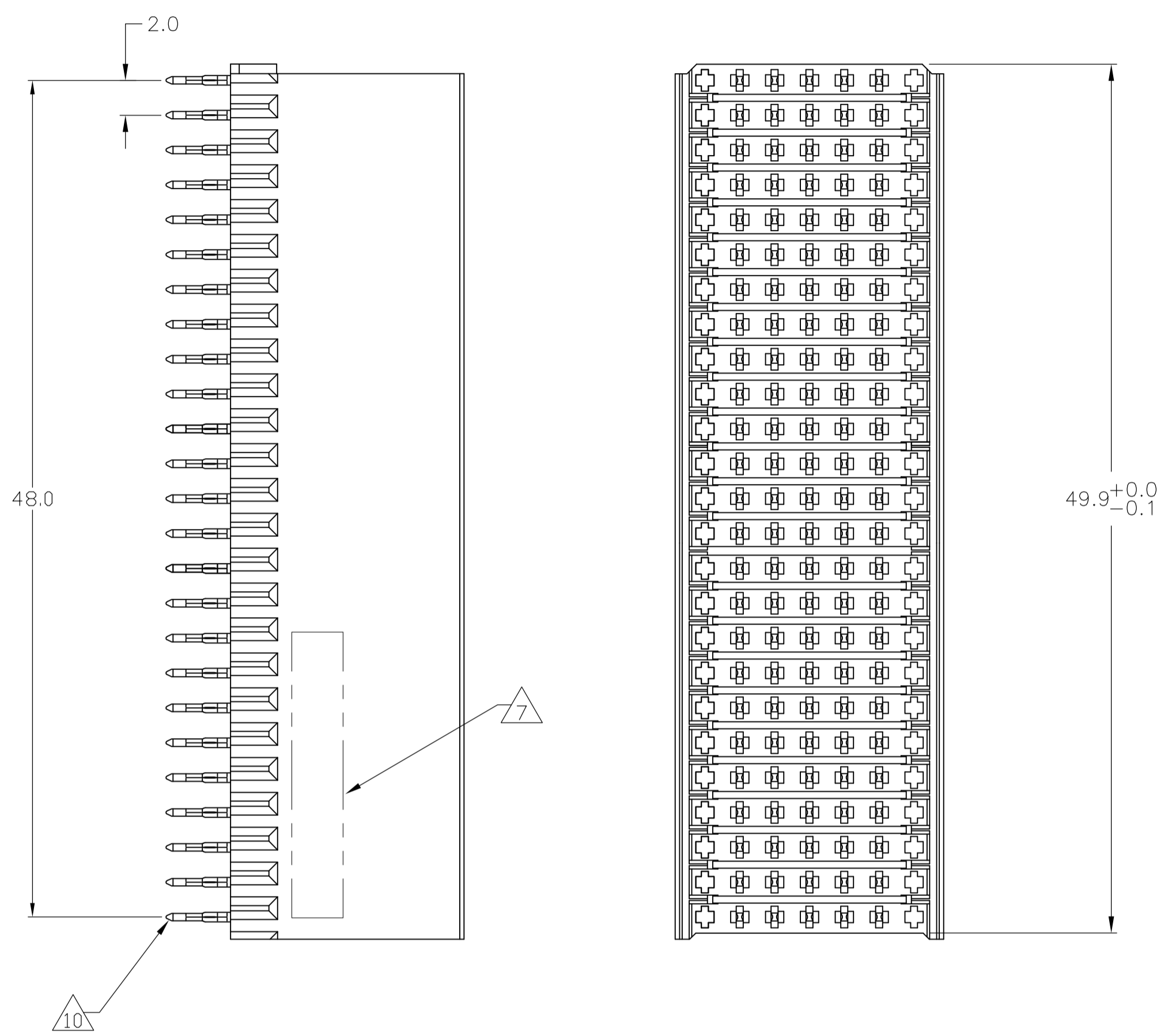- Lead Free Solder Processes = Not relevant for lead free process

Packaging Features:
- Packaging Quantity = 11
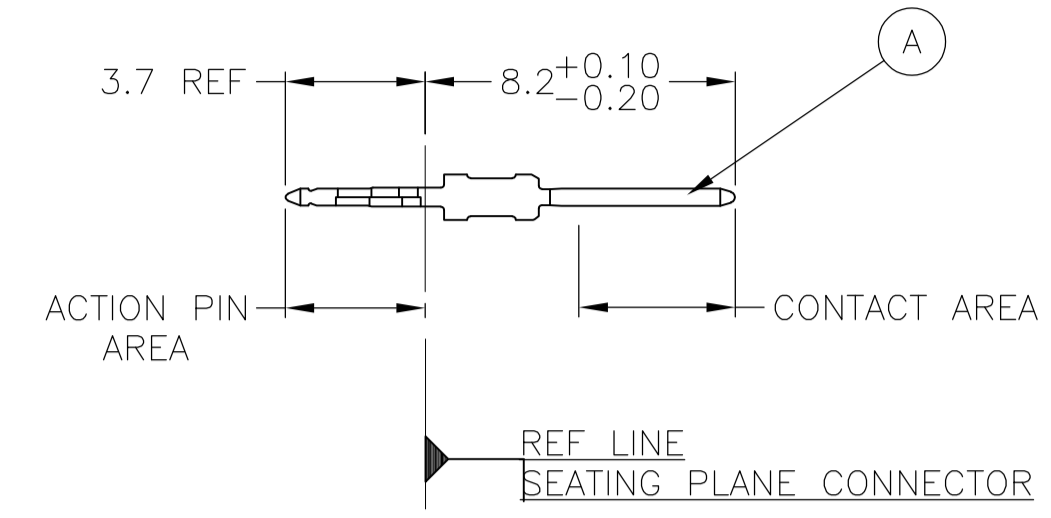
Other:
- Brand = AMP

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LOC AD   DIST 00

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	N2	REVISED PER ECO-11-005033	29MAR11	RK	HMR
	P	ECR-12-010652	6NOV12	SY	AC

CONNECTOR ASSEMBLY
EXAMPLARY LOADED △9

2.0

48.0

△7

△10

CONTACT DIMENSIONS
SCALE 5:1

3.7 REF

8.2 +0.10 −0.20

Ⓐ

ACTION PIN AREA

CONTACT AREA

REF LINE
SEATING PLANE CONNECTOR

49.9 +0.0 −0.1

CONTACT LAYOUT

	z	a	b	c	d	e	f
1		A	A	A	A	A	
2		A	A	A	A	A	
3		A	A	A	A	A	
4		A	A	A	A	A	
5		A	A	A	A	A	
6		A	A	A	A	A	
7		A	A	A	A	A	
8		A	A	A	A	A	
9		A	A	A	A	A	
10		A	A	A	A	A	
11		A	A	A	A	A	
12		A	A	A	A	A	
13		A	A	A	A	A	
14		A	A	A	A	A	
15		A	A	A	A	A	
16		A	A	A	A	A	
17		A	A	A	A	A	
18		A	A	A	A	A	
19		A	A	A	A	A	
20		A	A	A	A	A	
21		A	A	A	A	A	
22		A	A	A	A	A	
23		A	A	A	A	A	
24		A	A	A	A	A	
25		A	A	A	A	A	

△10

13.45 +0.0 −0.1

2.0

8.0

15.4±0.1

△11

RECOMMENDED PCB-HOLE LAYOUT
COMPONENT SIDE SHOWN
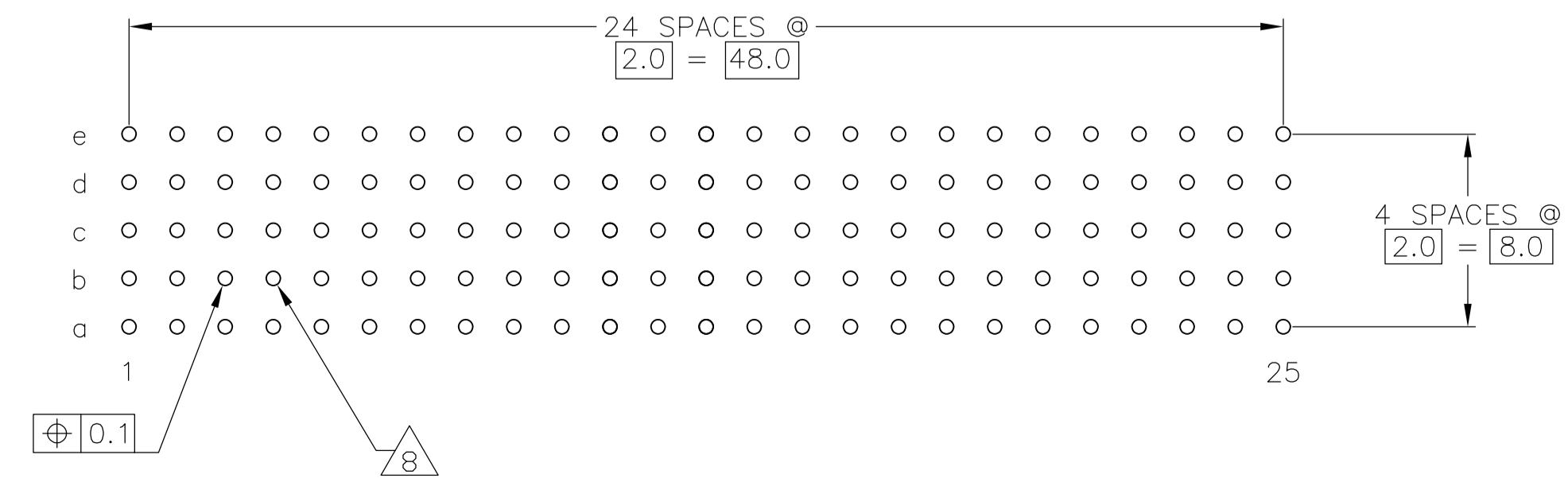
PLATED THRU HOLES PARAMETERS
REFERENCE APPLICATION SPECIFICATION

24 SPACES @
2.0 = 48.0

4 SPACES @
2.0 = 8.0

e d c b a
1   25

⊕ 0.1

△8

			PART NUMBER
△2	△3	△3	3-100141-0
△2	△6	△12	1-100141-9
△2	△5	△12	100141-9
△2	△4		100141-4
△2	△3		100141-1

OBSOLETE

FINISH

DWN F.BEUN 20NOV01
CHK —
APVD —

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ± —
1 PLC ± 0.1
2 PLC ± —
3 PLC ± —
4 PLC ± —
ANGLES ± — ± —

⊕

MATERIAL △1

FINISH
SEE TABLE

≡TE TE Connectivity

NAME MALE ASSEMBLY, Z-PACK 2mm HM, TYPE B

PRODUCT SPEC 108-19082
APPLICATION SPEC 114-19029

SIZE A1   CAGE CODE 00779 Ⓒ   DRAWING NO C-100141   RESTRICTED TO —

WEIGHT —

CUSTOMER DRAWING   SCALE 4:1   SHEET 1 OF 2   REV P

LOC	DIST	REVISIONS				
AD	00					
		P	LTR	DESCRIPTION	DATE	DWN	APVD
		—		SEE SHEET 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 TESTED AND QUALIFIED AGAINST TELCORDIA GR-1217-CORE QUALITY LEVEL 3,
   UNCONTROLLED ENVIROMENT APPLICATIONS.

△7 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.

△8 PLATED-THROUGH HOLES AT 2x2mm SQUARE GRID
   PATTERN DEFINED BY CONTACT LAYOUT.

△9 FOR ACTUAL PIN LOADING SEE "CONTACT LAYOUT".

△10 FOR ACTUAL PIN DIMENSIONS SEE "CONTACT DIMENSIONS".

△11 TO BE MEASURED AT BOTTOM OF SHROUD.

△12 CONNECTOR LUBRICATED WITH BELCORE APPROVED LUBRICANT,
   TECHNICAL REFERENCE: TR-NWT-001217 ISSUE 1, SEP 1992.

△13 0.76μm MIN GOLD PLATING AT MATING SURFACES.

THIS DRAWING IS A CONTROLLED DOCUMENT.	DWN	F.BEUN	20NOV01	≡TE	TE Connectivity		
	CHK	G.SKIPPER	—				
DIMENSIONS: mm	APVD	—	—	NAME	MALE ASSEMBLY, Z-PACK 2mm HM, TYPE B		
TOLERANCES UNLESS OTHERWISE SPECIFIED:	PRODUCT SPEC 108-19082						
0 PLC ± — / 1 PLC ± 0.1 / 2 PLC ± — / 3 PLC ± — / 4 PLC ± — / ANGLES ± —	APPLICATION SPEC 114-19029						
MATERIAL SEE SHEET 1	FINISH SEE SHEET 1	WEIGHT —		SIZE A1	CAGE CODE 00779	DRAWING NO C-100141	RESTRICTED TO —
CUSTOMER DRAWING				SCALE 4:1	SHEET 2 OF 2		REV P