

1658744-1 Product Details

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1658744-1

TE Internal Number: 1658744-1

Active

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Pluggable Connectors, Cages & Accessories

Always EU RoHS/ELV Compliant (Statement of Compliance)

Product Highlights:

- SFP Product Line
- Cage
- SFP Application
- Cage Type = Ganged
- 1x4 Port Configuration

[View all Features](#)

Quick Links

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Documentation & Additional Information

Product Drawings:

- [CAGE ASSEMBLY, 1X4 PRESS FIT, SFP \(PDF, English\)](#)

Catalog Pages/Data Sheets:

- [1773408-1 Pluggable Input/Output Solutions catalog -... \(PDF, English\)](#)
- [Solutions for AdvancedTCA, AdvancedTCA 300, MicroTCA... \(PDF, English\)](#)
- [4-1773455-4 Quick Reference Guide SFP Solutions \(PDF, English\)](#)

Product Specifications:

- None Available

Application Specifications:

- [Small Form-Factor Pluggable \(SFP\), SFP+, and zSFP+ S... \(PDF, English\)](#)
- [Small Form-Factor Pluggable \(SFP\) Ganged Press-Fit P... \(PDF, English\)](#)

Instruction Sheets:

- None Available

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

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

[List all Documents](#)

Related Products:

- [Tooling](#)
- [Connectors \(5\)](#)
- [Dust Cap/Plugs \(1\)](#)
- [Cable Assemblies \(5\)](#)

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

Product Type Features:

- Product Line = SFP
- Product Type = Cage

Mechanical Attachment:

- PCB Mount = Double Sided (Belly-to-Belly)

Electrical Characteristics:

- Data Signal Rate (Gb/s) = Up to 4

Termination Features:

- Termination Method to PC Board = Press-Fit

Dimensions:

- Tail Length (mm [in]) = 2.05 [0.081]
- PCB Thickness, Recommended (mm [in]) = 2.25 [0.089]

Body Features:

- Cage Plating = Tin over Nickel Flash

Housing Features:

- Cage Type = Ganged
- Cage Material = Copper Alloy

Configuration Features:

- Port Configuration = 1x4
- Lightpipe = Without

Industry Standards:

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

Conditions for Usage:

- Applies To = Printed Circuit Board

Operation/Application:

- Application = SFP

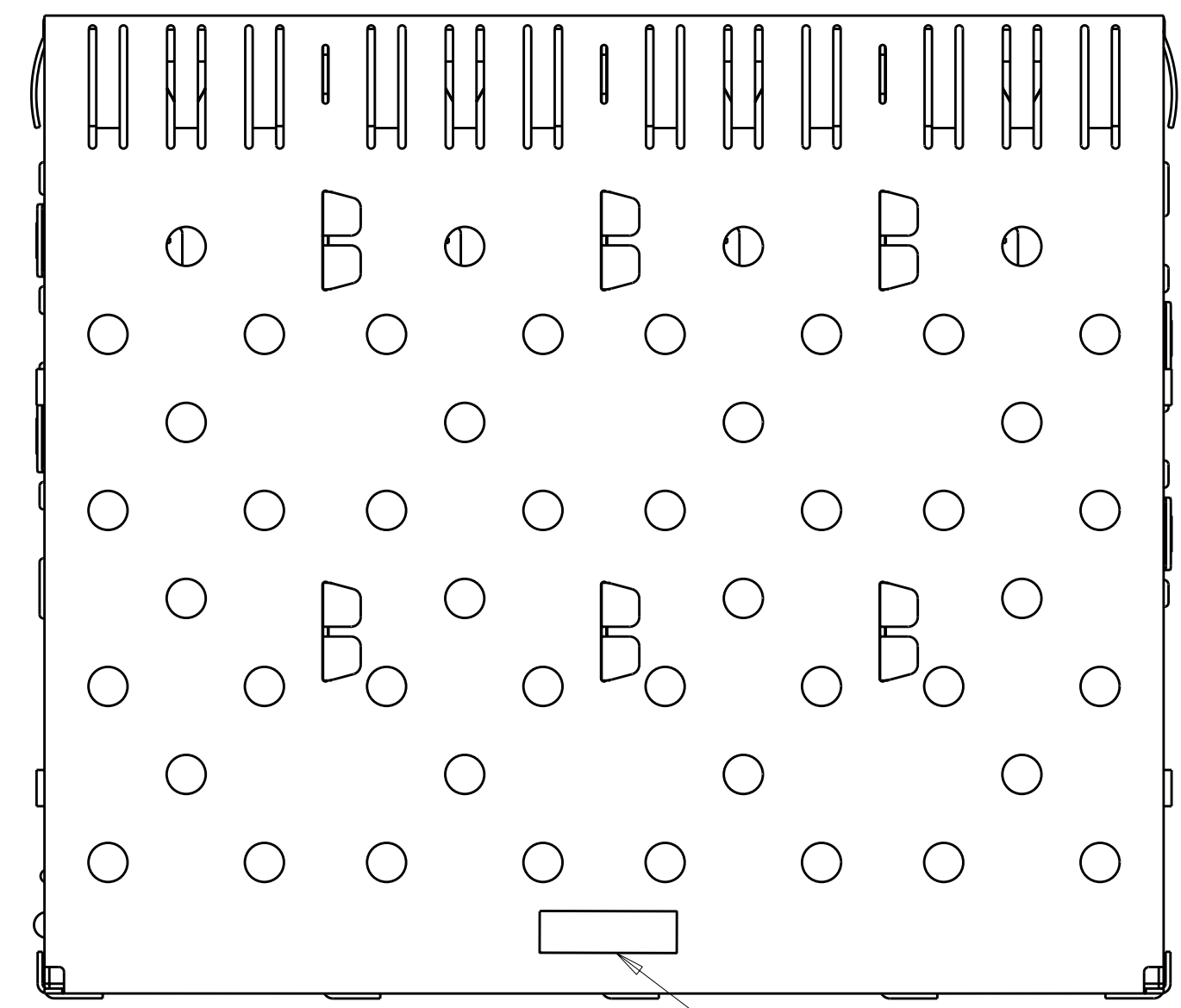
Packaging Features:

- Packaging Method = Tray

Other:

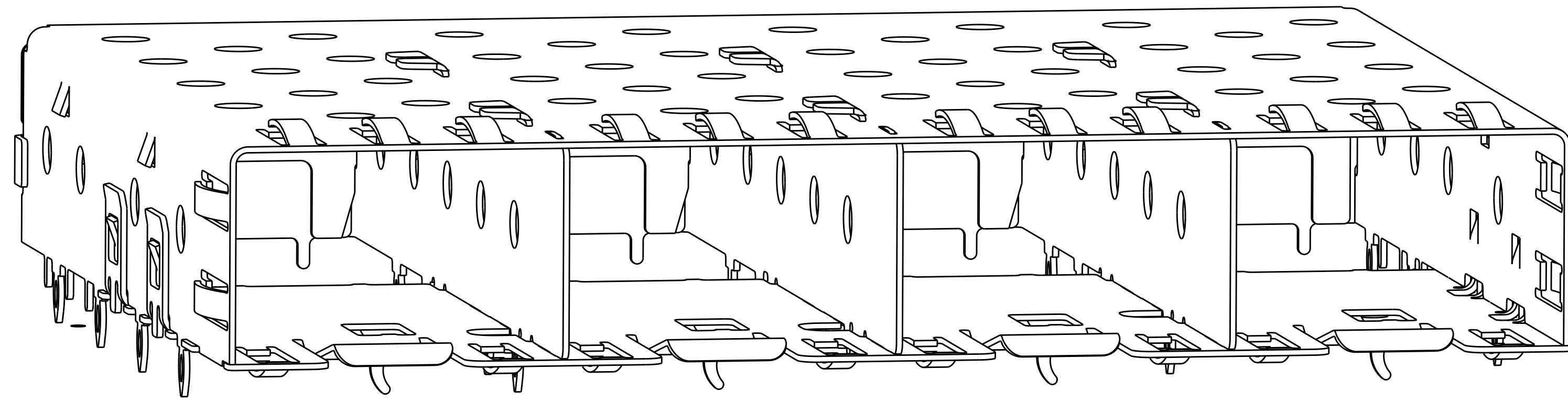
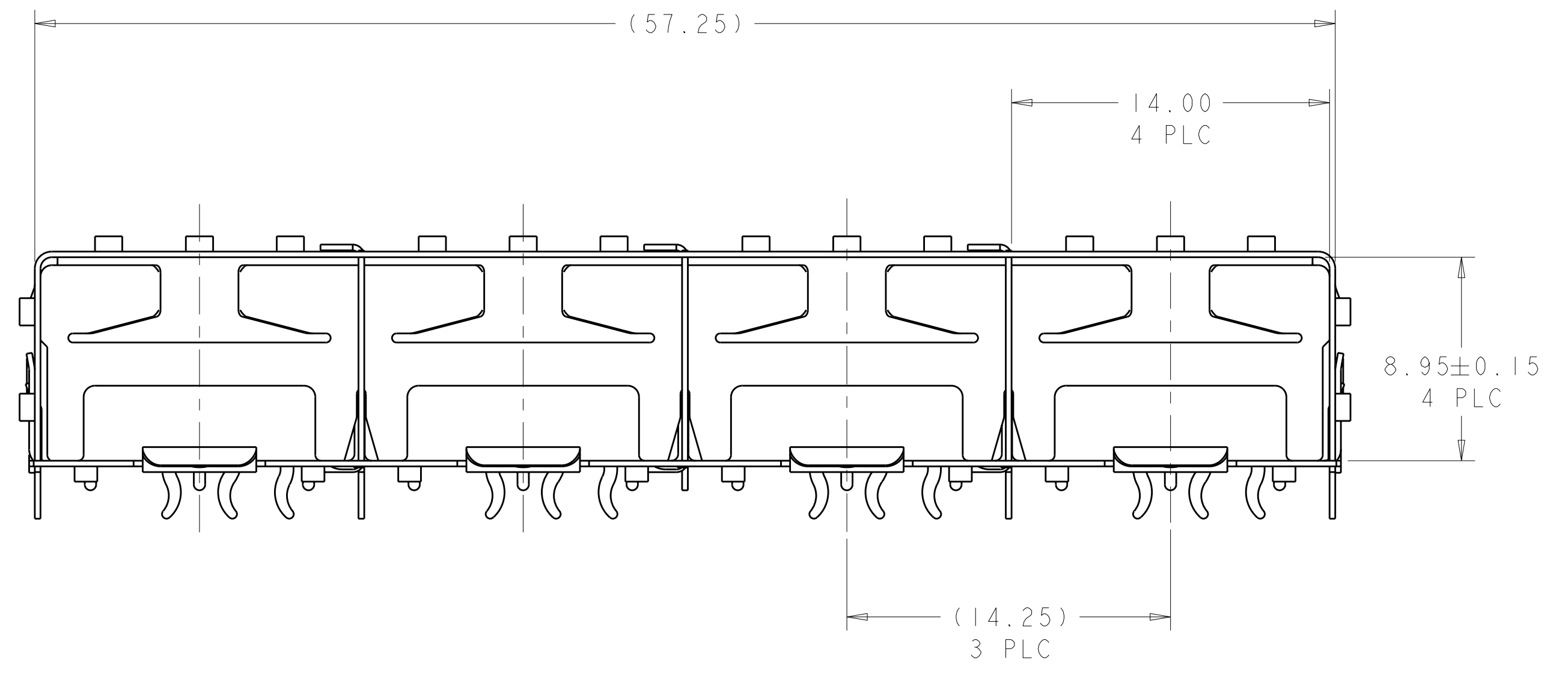
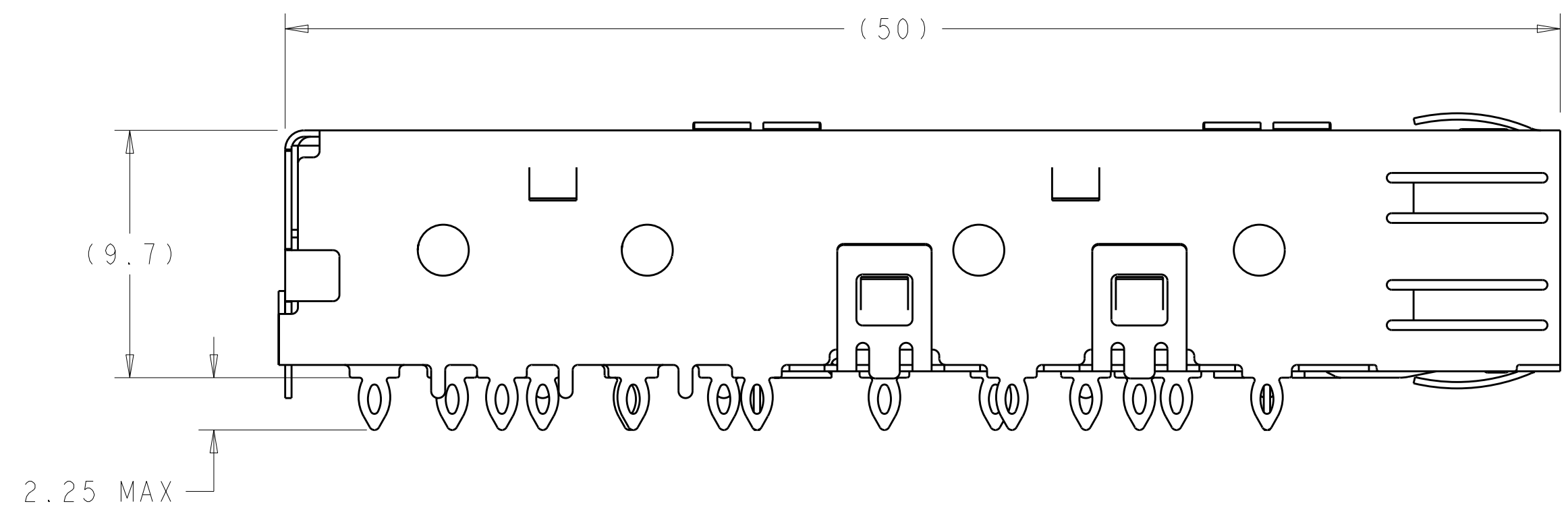
- Brand = AMP

| LOC | DIST | REV | DATE | BY | APPD |
|-----|------|-----|-----------|----|------|
| GP | 00 | | | | |
| G1 | | | 01APR2011 | JY | CW |
| H | | | 13JUN2012 | JY | AC |



SCALE 3:1

- MATERIAL: 0.25 THICK COPPER ALLOY.
- FINISH: TIN PLATING PER ASTM B 545, 1.25um MINIMUM THICKNESS ALL OVER NICKEL FLASH PER QQ-N-290. NONPLATED EDGES PERMISSIBLE.
- PADS AND VIAS CHASSIS GROUND.
- DATUM AND BASIC DIMENSION ESTABLISHED BY CUSTOMER.
- REFERENCE APPLICATION SPEC 114-13120, HOLE A, FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESSES.
- REFERENCE APPLICATION SPEC 114-13120, HOLE B, FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESSES.
- COMPANY LOGO IN APPROXIMATE AREA SHOWN
- PATTERN REPEATS FOR EACH PORT. SPACING BETWEEN PORTS IS 14.25 mm.



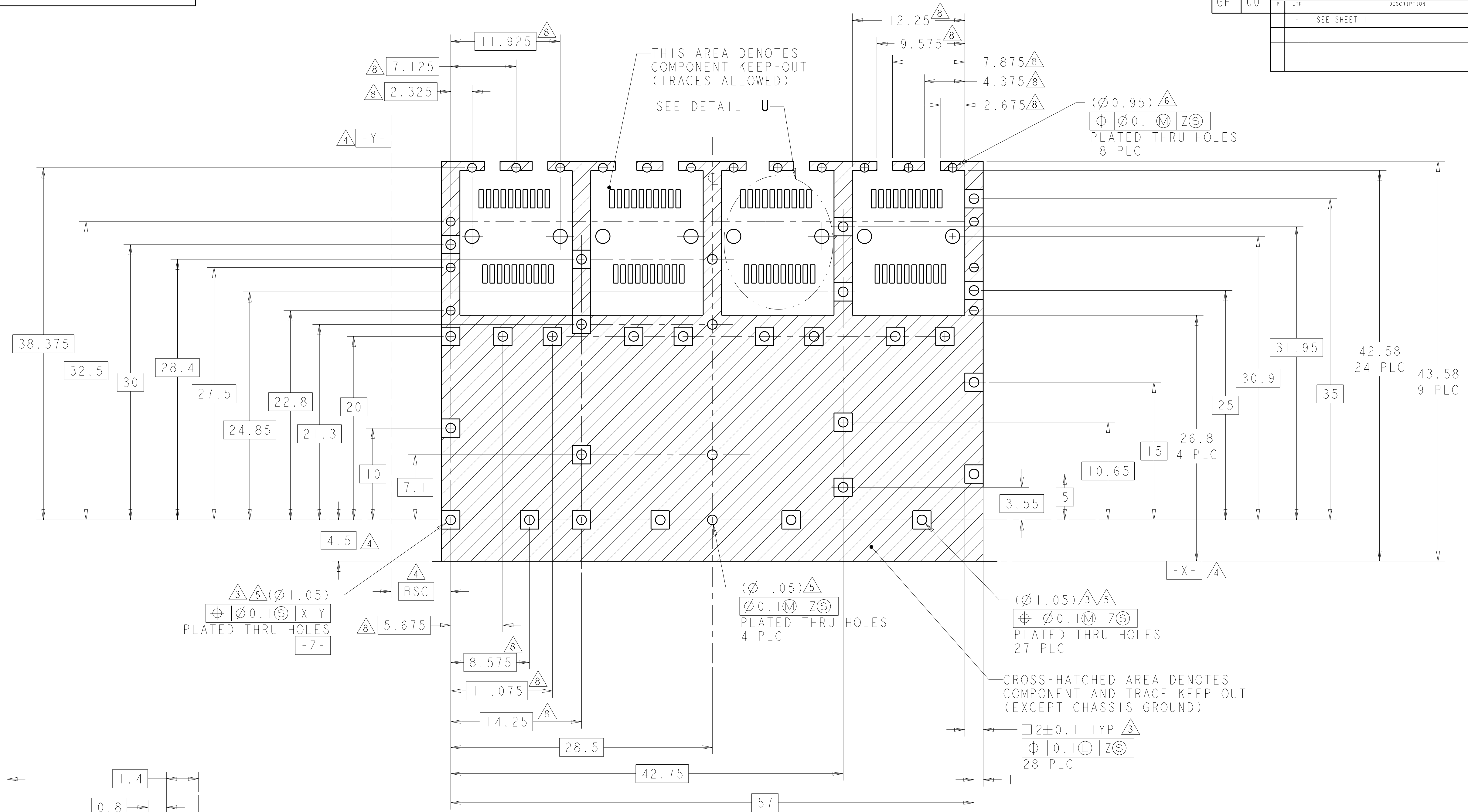
1658744-1
 1X4 CAGE ASSEMBLY
 SCALE 6:1

| | |
|----------|-------------|
| IX4 | 1658744-1 |
| POSITION | PART NUMBER |

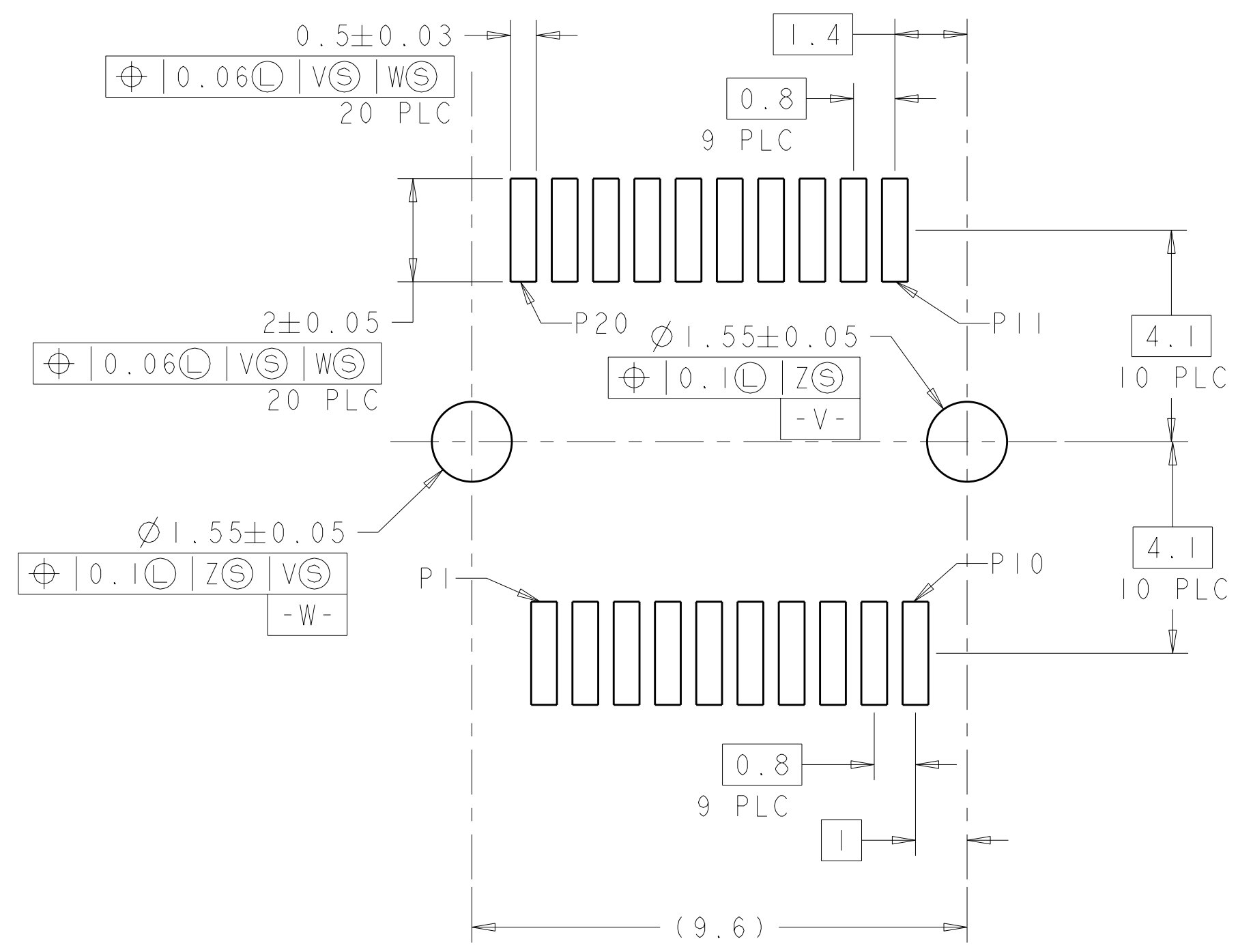
| | | | | | |
|--|--|------------------|-----------------|-----------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT. | | DWN | M. SHIRK | 04JUN03 | TE Connectivity CAGE ASSEMBLY, 1X4 PRESS FIT, SFP |
| DIMENSIONS: | | CHK | J. KOPPENHEFFER | 06MAY04 | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED: | | APPD | M. WALMSLEY | 06MAY04 | |
| mm | | NAME | | | |
| 0 PLC ± 1 PLC ±0.1 3 PLC ± 4 PLC ± ANGLES ±° | | PRODUCT SPEC | 108-1950 | | |
| MATERIAL | | APPLICATION SPEC | 114-13120 | | |
| FINISH | | WEIGHT | - | | |
| | | CUSTOMER DRAWING | SCALE | 1:1 | |
| | | SIZE | A100779 | C=1658744 | |
| | | RESTRICTED TO | - | | |
| | | SHEET | 1 | OF 2 | |
| | | REV | H | | |

| LOC | DIST | REV | DATE | BY | APPD |
|-----|------|-----|------|----|------|
| GP | 00 | | | | |

| REVISIONS | | DATE | BY | APPD |
|-----------|-------------|------|----|------|
| 1 | SEE SHEET 1 | | | |



1658744-1
 RECOMMENDED PCB
 CONFIGURATION
 SCALE 4:1



| | | | |
|--|--|------------------------------|---|
| THIS DRAWING IS A CONTROLLED DOCUMENT. | | OWN: M. SHIRK 04JUN03 | TE Connectivity |
| DIMENSIONS: mm | | CHK: J. KOPPENHEFFER 06MAY04 | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED: | | APVD: M. WALMSLEY 06MAY04 | NAME: CAGE ASSEMBLY, 1X4 PRESS FIT, SFP |
| 9 PLC \pm 1 PLC ± 0.1 5 PLC \pm 4 PLC \pm ANGLES $\neq 90^\circ$ | | PRODUCT SPEC: 108-1950 | SIZE: CAGE CODE DRAWING NO: A100779 |
| MATERIAL: FINISH: | | APPLICATION SPEC: 114-13120 | RESTRICTED TO: H |
| | | WEIGHT: CUSTOMER DRAWING | SCALE: 1:1 SHEET 2 OF 2 REV H |