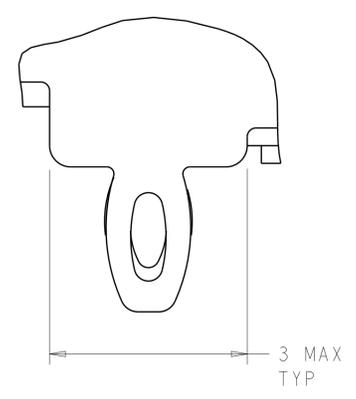


| LOC | DIST | REVISIONS | | | | | |
|-----|------|-----------|-----|---------------------------|-----------|-----|------|
| | | P | LTN | DESCRIPTION | DATE | DMN | APVD |
| GP | 00 | C | | REVISED PER ECO-10-018054 | 02NOV2010 | CJV | EJB |
| | | D | | REVISED PER ECO-12-005533 | 23MAR2012 | JY | AC |
| | | E | | REVISED PER ECO-14-012115 | 6AUG2014 | RG | MC |
| | | F | | REVISED PER ECO-14-017735 | 30EC2014 | RG | MC |

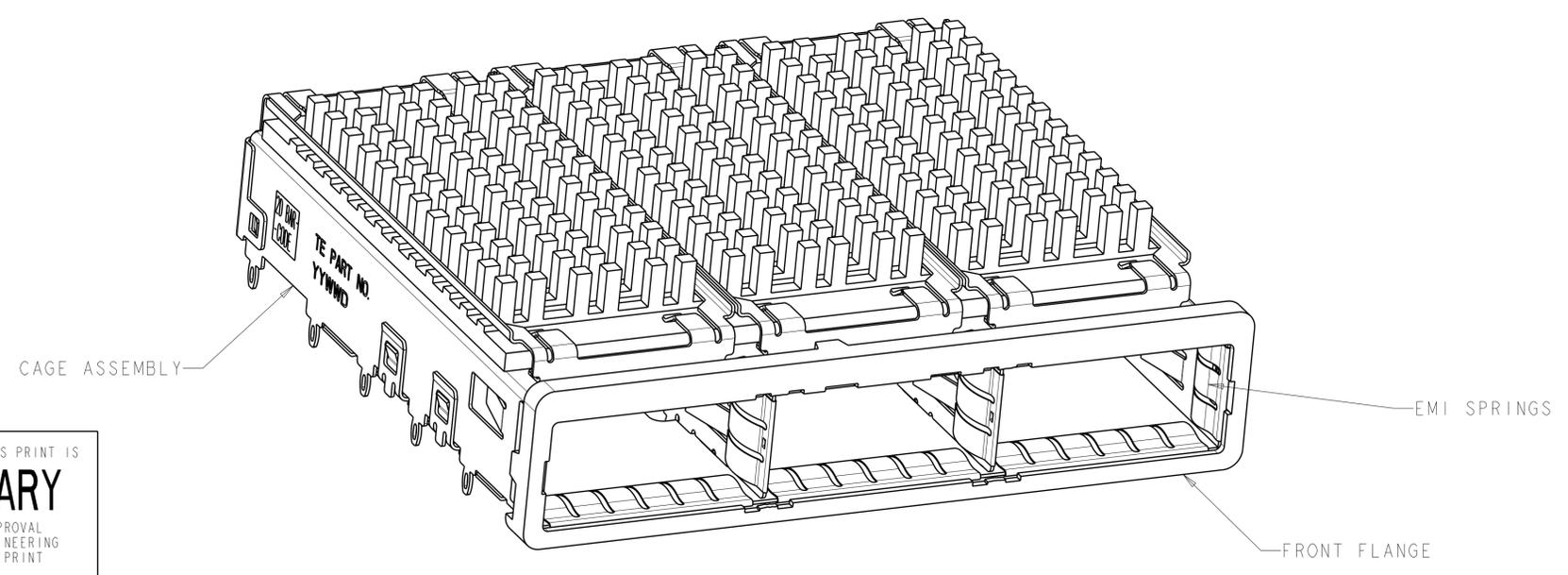
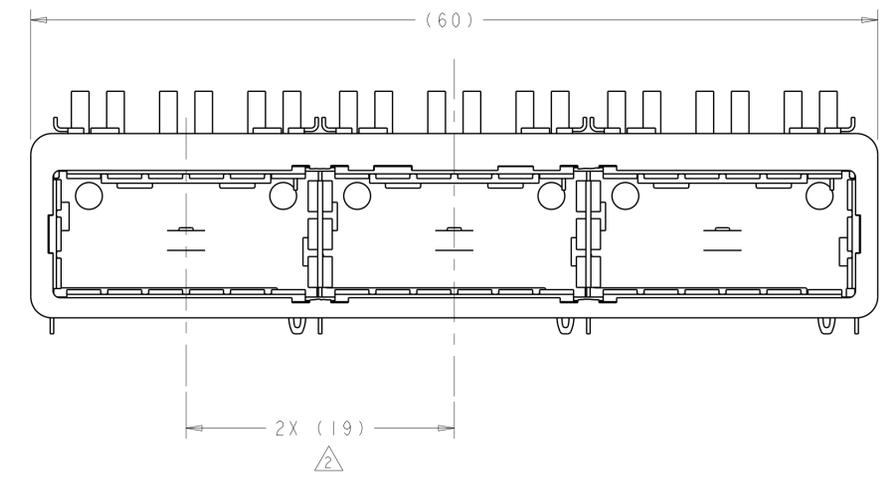
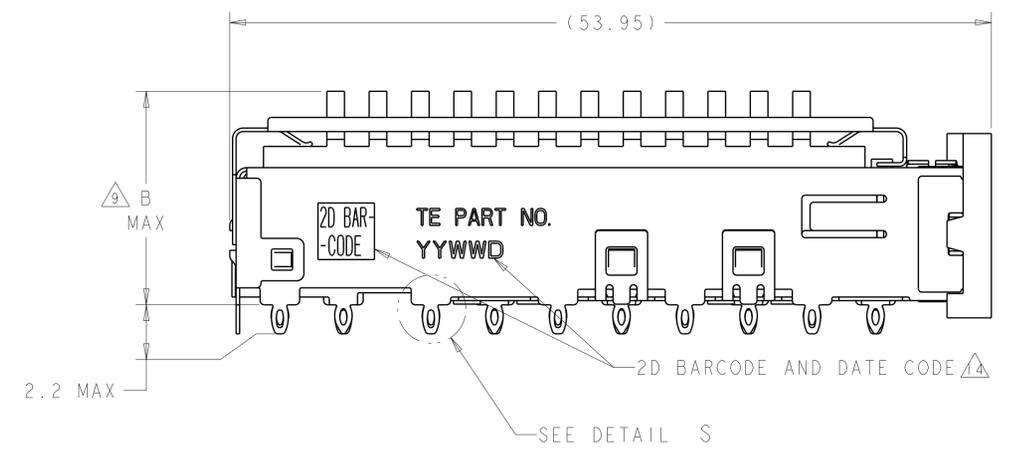


DETAIL S $\Delta 12$
 SCALE 20:1

- $\Delta 1$ MATERIALS:
 CAGE ASSEMBLY: NICKEL SILVER, 0.25 THICK
 EMI SPRINGS: COPPER ALLOY
 FRONT FLANGE: ZINC ALLOY
 HEAT SINK: ALUMINUM
 HEAT SINK CLIP: STAINLESS STEEL
- $\Delta 2$ PITCH BETWEEN PORTS OF ONE 1X3 CAGE ASSEMBLY.
- $\Delta 3$ SPACING BETWEEN CAGES ON THE SAME PC BOARD, TO BE SPECIFIED BY CUSTOMER, MUST COMPLY WITH MINIMUM DIMENSIONS SHOWN.
- $\Delta 4$ REFERENCE APPLICATION SPEC 114-13218 FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESS.
- $\Delta 5$ DATUMS AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.
- $\Delta 6$ DIMENSION C IS THE NOMINAL THICKNESS OF CUSTOMER SUPPLIED PC BOARD.
 MINIMUM SINGLE SIDED PC BOARD THICKNESS: 1.45mm
 MINIMUM DOUBLE SIDED PC BOARD THICKNESS: 2.2mm PER QSFP
- $\Delta 7$ HEAT SINKS AND CLIPS SHIPPED ASSEMBLED TO CAGE ASSEMBLY. CAGE ASSEMBLY MAY BE PRESSED INTO THE PCB AS SHIPPED.
- $\Delta 8$ DATUM \square -A- IS TOP SURFACE OF PC BOARD.
- $\Delta 9$ DIMENSION APPLIES WITH MODULE INSERTED IN CAGE.
- $\Delta 10$ UNPLATED THRU HOLE.

- $\Delta 3$ BASELINE FOR THESE DIMENSIONS IS THE CENTER OF COMPLIANT PIN HOLE.
- $\Delta 4$ 2D BARCODE AND DATE CODE (YYWW) MARKED ON SIDE OF CAGE.
- $\Delta 5$ REFERENCE APP SPEC 114-13218 FOR GASKET THICKNESS CALCULATION.
- $\Delta 6$ FINISH:
 EMI SPRINGS: 2 μ m MINIMUM TIN
 FRONT FLANGE: 3 μ m MINIMUM TIN OVER 1.27 μ m MINIMUM NICKEL OVER 5.08 μ m MINIMUM COPPER
 HEAT SINK: ANODIZED BLACK.

- 11. MATES WITH QSFP MSA COMPATIBLE TRANSCEIVER.
- $\Delta 12$ SURFACE TRACES PERMITTED WITHIN THIS AREA EXCEPT WHERE CAGE STANDOFFS, SHOWN IN DETAIL S, CONTACT PC BOARD.

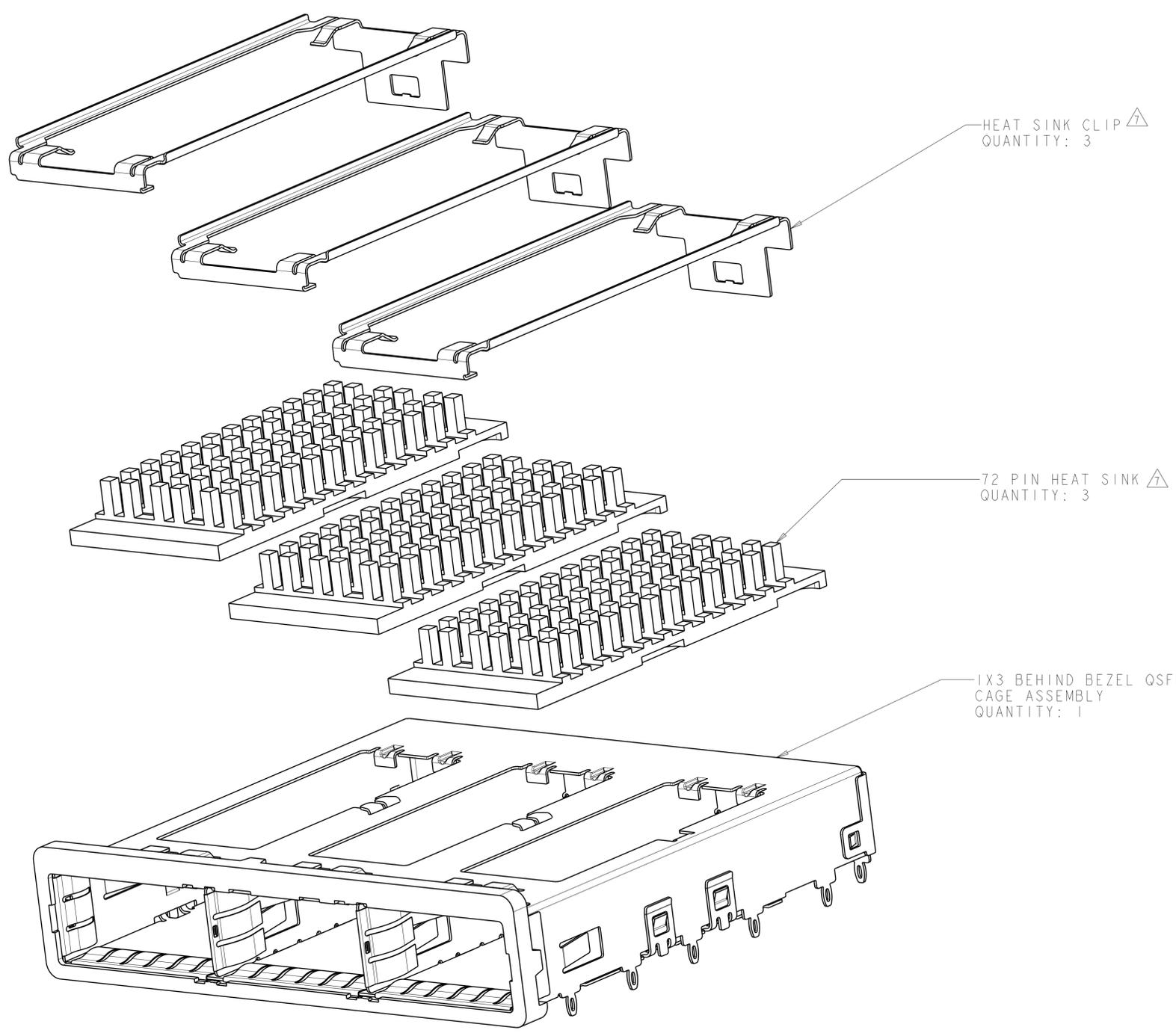


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 CONTACT PRODUCT ENGINEERING
 BEFORE USING THIS PRINT

| | | |
|------|-------------------|-------------|
| 16.8 | CUSTOMERIZED | 2007456-4 |
| 23.0 | NETWORKING | 2007456-3 |
| 16.0 | SAN | 2007456-2 |
| 13.7 | PCI | 2007456-1 |
| B | HEAT SINK PROFILE | PART NUMBER |

| | | | |
|--|--|----------------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT. | | DMN C. VALENTINE 07NOV2007 | TE Connectivity NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, QSFP |
| DIMENSIONS: | | CHK E. BRIGHT 07NOV2007 | |
| mm | TOLERANCES UNLESS OTHERWISE SPECIFIED: | APVD E. BRIGHT 07NOV2007 | PRODUCT SPEC |
| 0 PLC | ± | PRODUCT SPEC | 108-2286 |
| 1 PLC | ±0.1 | APPLICATION SPEC | 114-13218 |
| 2 PLC | ±0.1 | WEIGHT | - |
| 3 PLC | ± | SCALE | 4:1 |
| 4 PLC | ± | SHEET | 1 OF 5 |
| ANGLES | ± | REV | F |
| MATERIAL | FINISH | CUSTOMER DRAWING | |
| | $\Delta 16$ | | |

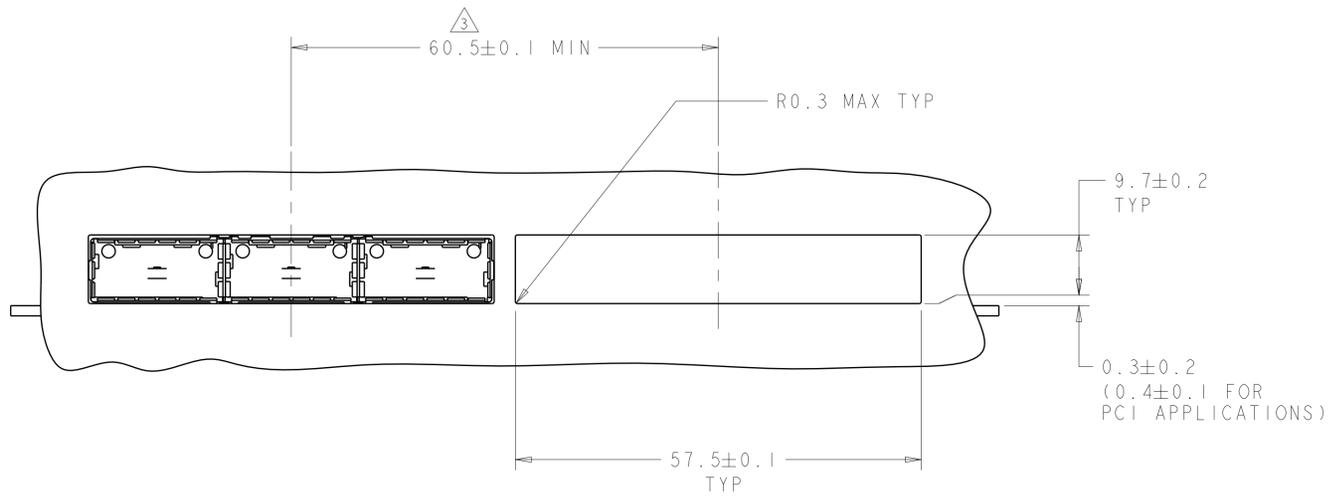
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| GP | 00 | P | LTN | DESCRIPTION | DATE | DWN | APVD |
| | | - | | SEE SHEET 1 | - | - | - |
| | | | | | | | |
| | | | | | | | |



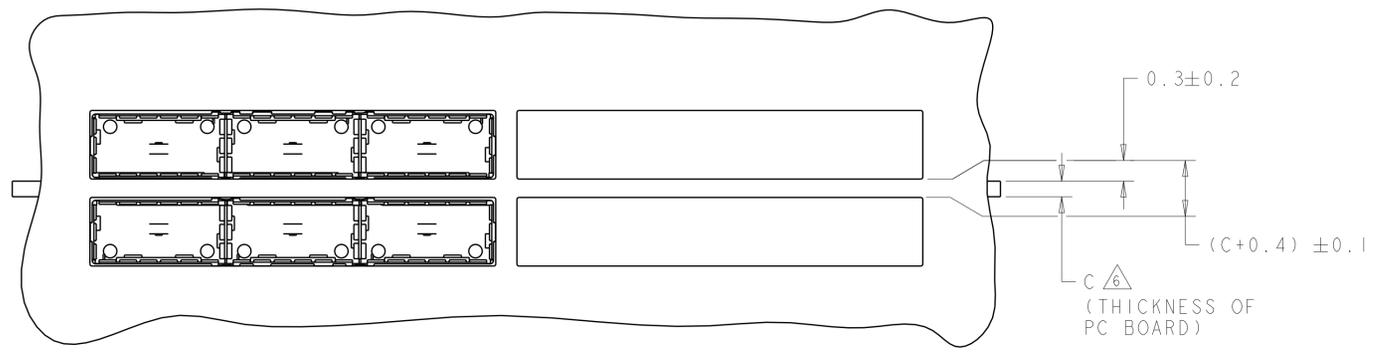
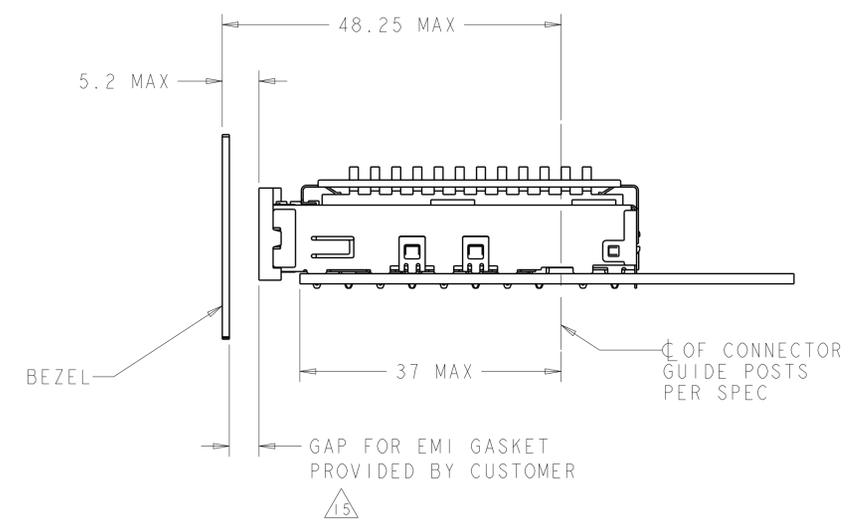
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 BEFORE USING THIS PRINT

| | | | |
|--|--|----------------------------------|---|
| THIS DRAWING IS A CONTROLLED DOCUMENT. | | DWN C. VALENTINE 07NOV2007 | TE Connectivity |
| DIMENSIONS: | | CHK E. BRIGHT 07NOV2007 | |
| mm | TOLERANCES UNLESS OTHERWISE SPECIFIED: | APVD E. BRIGHT 07NOV2007 | NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, QSFP |
| 0 PLC ± | 1 PLC ±0.1 | PRODUCT SPEC | SIZE A100779C=2007456 |
| 2 PLC ±0.1 | 3 PLC ± | APPLICATION SPEC | RESTRICTED TO |
| 4 PLC ± | ANGLES ± | 114-13218 | SCALE 4:1 SHEET 2 OF 5 REV F |
| MATERIAL | FINISH | WEIGHT | CUSTOMER DRAWING |

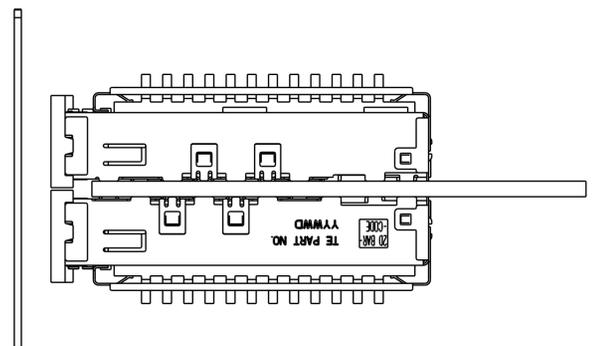
| LOC | DIST | REVISIONS | | | |
|-----|------|-------------|------|-----|------|
| P | LTN | DESCRIPTION | DATE | DMN | APVD |
| GP | 00 | SEE SHEET 1 | - | - | - |
| | | | | | |
| | | | | | |



ONE SIDED CONFIGURATION
 SCALE 2:1



BELLY TO BELLY CONFIGURATION SIMILAR TO ONE SIDED EXCEPT WHERE NOTED
 SCALE 2:1

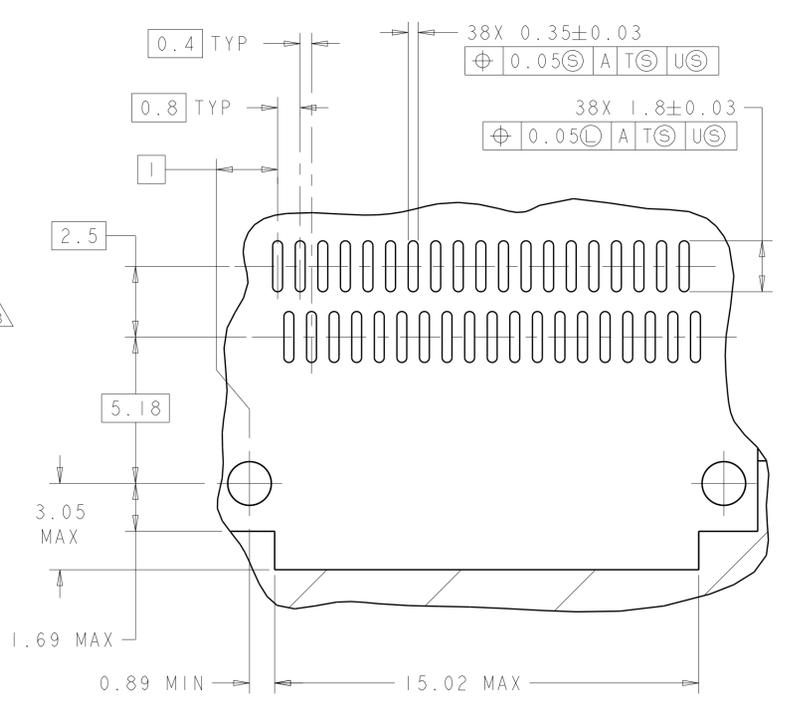
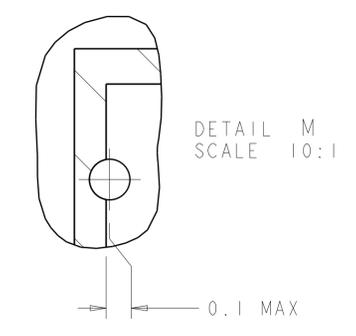
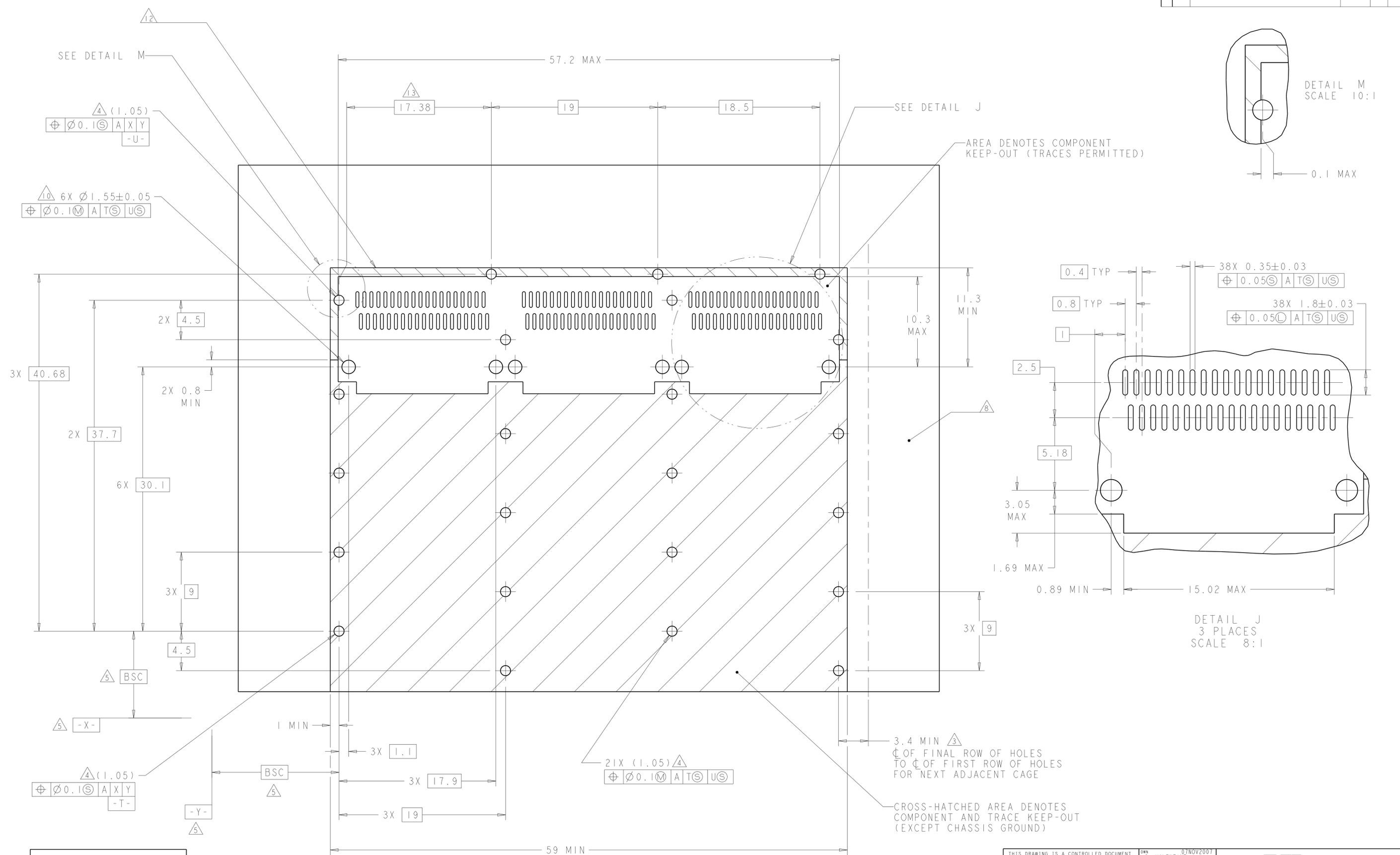


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| | | | |
|--|--|----------------------------|---|
| THIS DRAWING IS A CONTROLLED DOCUMENT. | | DMN C. VALENTINE 07NOV2007 | TE Connectivity |
| DIMENSIONS: mm | | CHK E. BRIGHT 07NOV2007 | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED: | | APVD E. BRIGHT 07NOV2007 | NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, QSFP |
| 0 PLC ± | | PRODUCT SPEC | |
| 1 PLC ±0.1 | | 108-2286 | SIZE CAGE CODE DRAWING NO RESTRICTED TO A100779C=2007456 |
| 2 PLC ±0.1 | | APPLICATION SPEC | |
| 3 PLC ± | | 114-13218 | SCALE 4:1 SHEET 3 OF 5 REV F |
| 4 PLC ± | | WEIGHT | |
| ANGLES ± | | CUSTOMER DRAWING | |

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

| REVISIONS | | | |
|-----------|-------------|------|----|
| NO. | DESCRIPTION | DATE | BY |
| 1 | SEE SHEET 1 | | |



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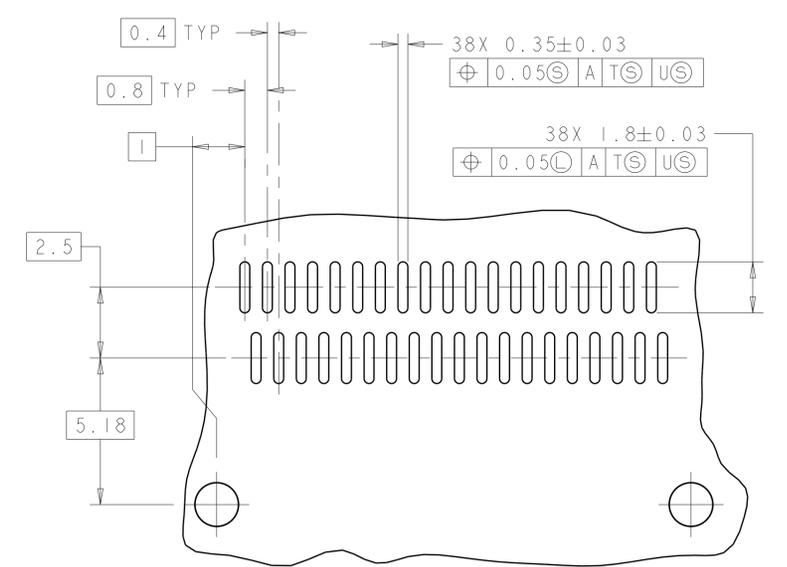
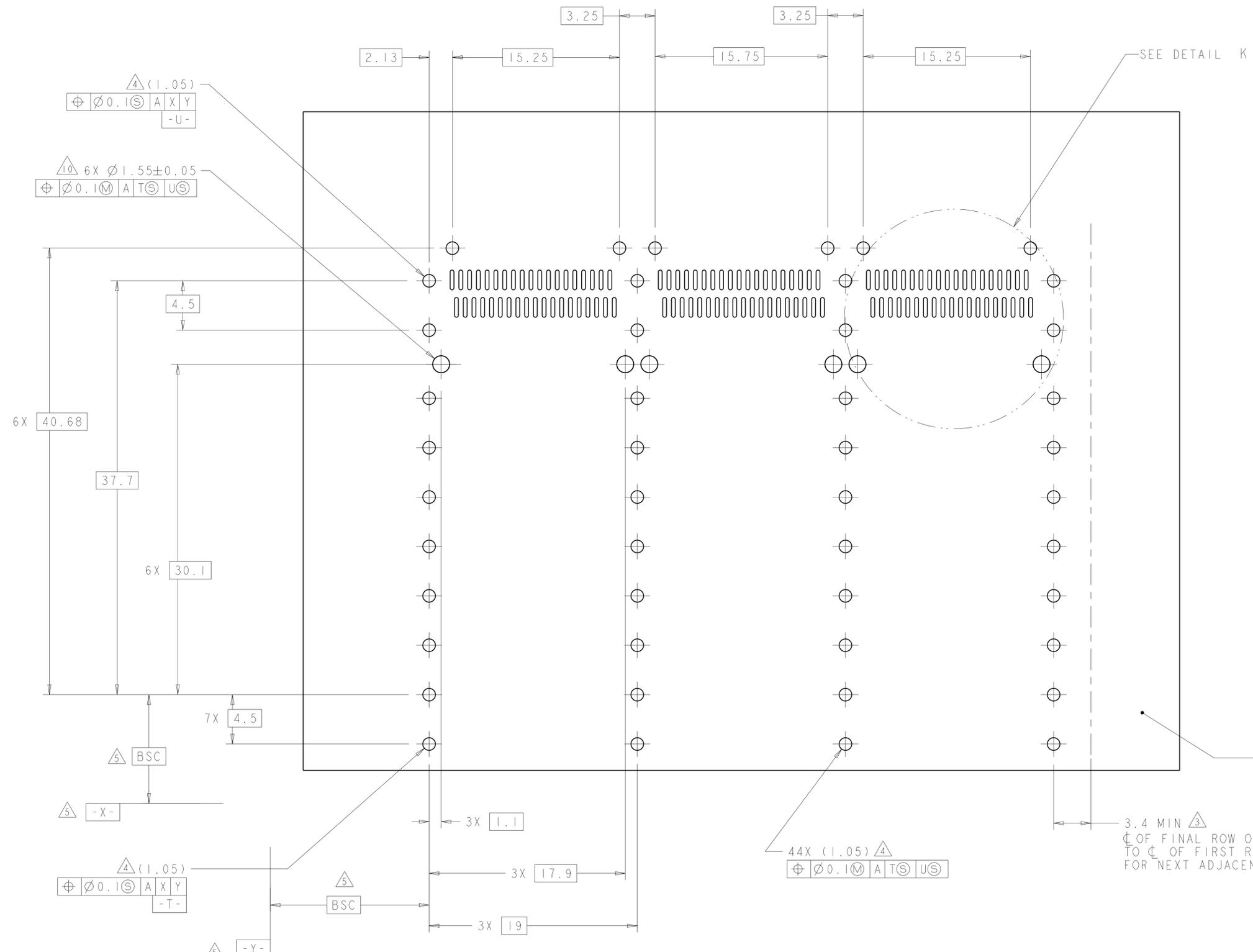
RECOMMENDED PC BOARD LAYOUT
 SINGLE SIDE MOUNT CONFIGURATION
 SCALE 5:1

3.4 MIN Δ
 ϕ OF FINAL ROW OF HOLES
 TO ϕ OF FIRST ROW OF HOLES
 FOR NEXT ADJACENT CAGE

CROSS-HATCHED AREA DENOTES
 COMPONENT AND TRACE KEEP-OUT
 (EXCEPT CHASSIS GROUND)

| | | | |
|--|--------|----------------------------------|---|
| THIS DRAWING IS A CONTROLLED DOCUMENT. | | DWN C. VALENTINE 07NOV2007 | TE Connectivity |
| DIMENSIONS: mm | | CHK E. BRIGHT 07NOV2007 | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED: | | APVD E. BRIGHT 07NOV2007 | NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, QSFP |
| 0 PLC | ± | PRODUCT SPEC | SIZE 114-13218 |
| 1 PLC | ±0.1 | APPLICATION SPEC | RESTRICTED TO |
| 2 PLC | ±0.1 | 108-2286 | |
| 3 PLC | ± | 114-13218 | |
| 4 PLC | ± | WEIGHT | |
| ANGLES | ± | | |
| MATERIAL | FINISH | CUSTOMER DRAWING | SCALE 4:1 SHEET 4 OF 5 REV F |

| LOC | DIST | REVISIONS | | | |
|-----|------|-------------|------|-----|------|
| P | LTN | DESCRIPTION | DATE | DMN | APVD |
| GP | 00 | SEE SHEET 1 | - | - | - |
| | | | | | |
| | | | | | |



DETAIL K
 3 PLACES
 SCALE 8:1

RECOMMENDED PC BOARD LAYOUT
 BELLY TO BELLY CONFIGURATION
 SEE SHEET 4 FOR COMPONENT
 AND TRACE KEEP-OUTS
 SCALE 5:1

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| | | | |
|--|--|----------------------------|---|
| THIS DRAWING IS A CONTROLLED DOCUMENT. | | DMN C. VALENTINE 07NOV2007 | TE Connectivity NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, QSFP |
| DIMENSIONS: mm | | CHK E. BRIGHT 07NOV2007 | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED: | | APVD E. BRIGHT 07NOV2007 | PRODUCT SPEC 108-2286 |
| 0 PLC ± 2 PLC ±0.1 3 PLC ±0.1 4 PLC ± ANGLES ± | | APPLICATION SPEC 114-13218 | RESTRICTED TO |
| MATERIAL FINISH | | WEIGHT | SIZE CAGE CODE DRAWING NO. A100779C=2007456 |
| CUSTOMER DRAWING | | SCALE 4:1 | SHEET 5 OF 5 REV F |

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

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