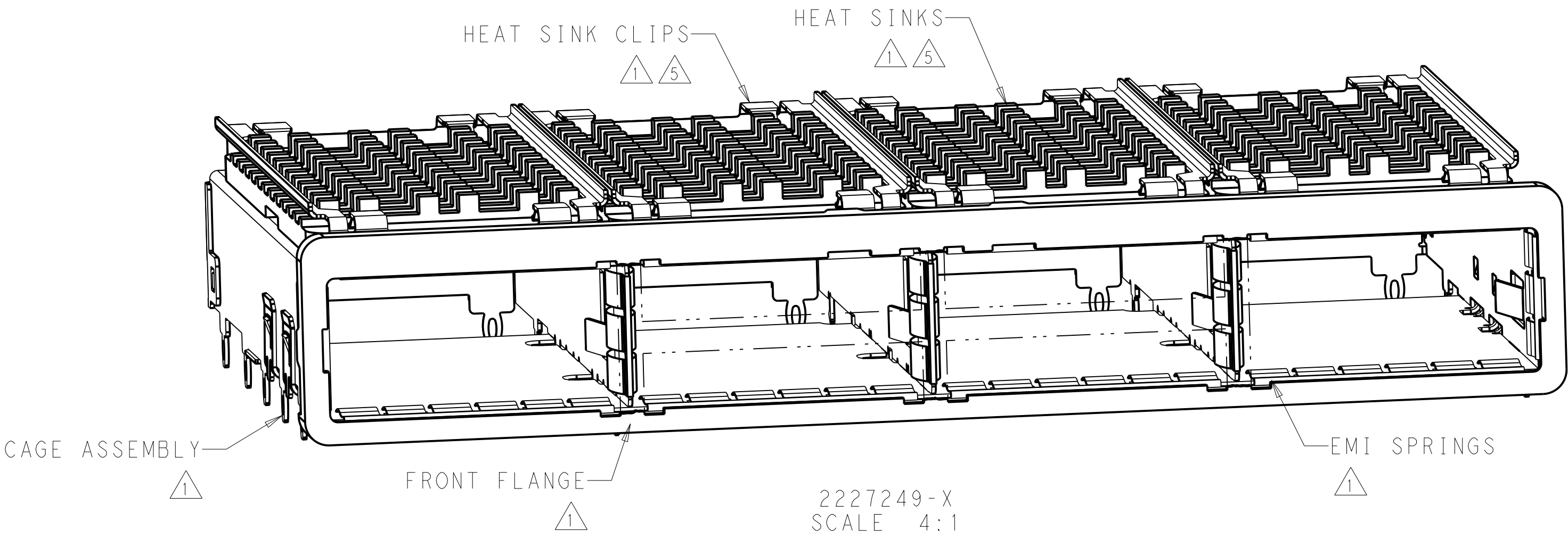
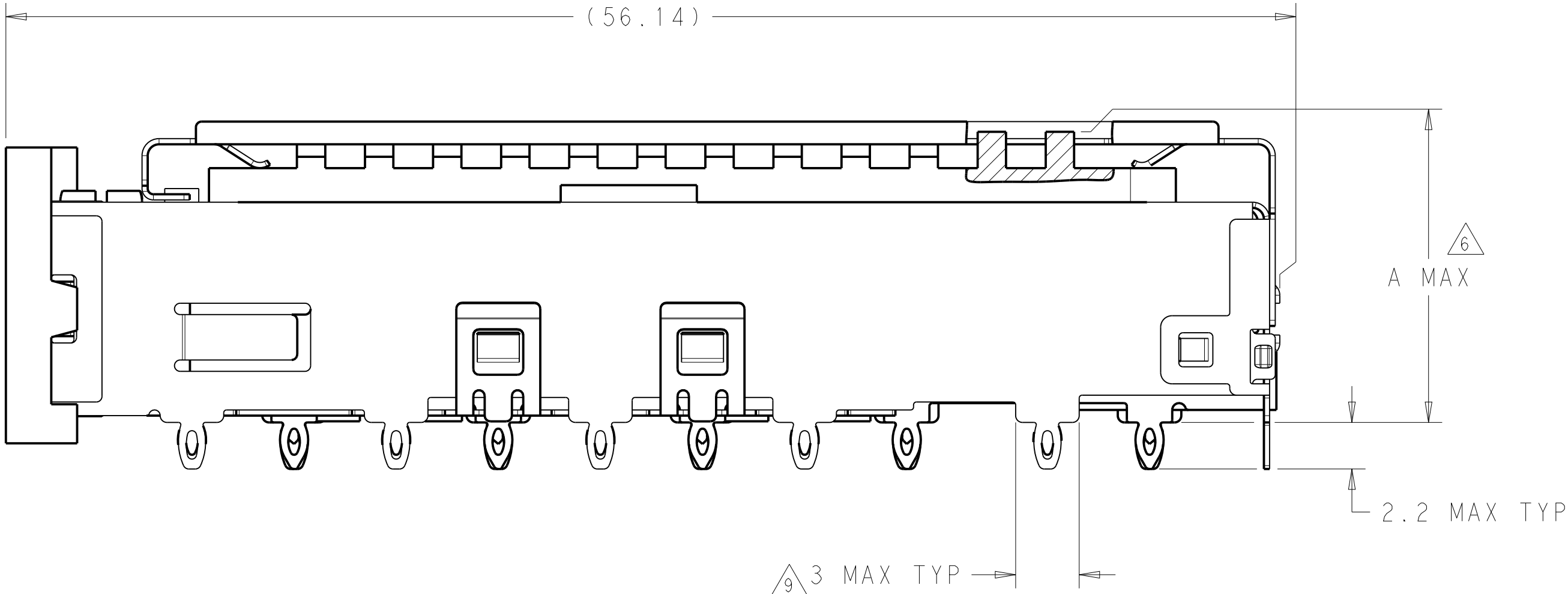
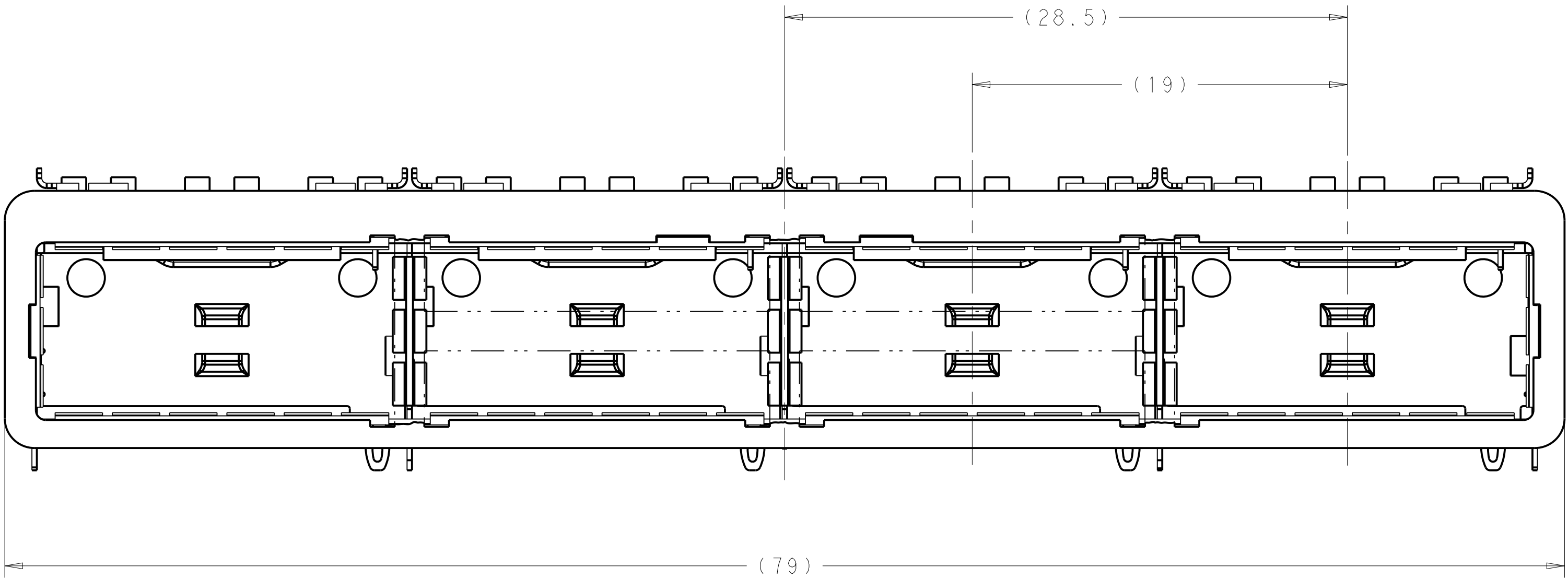


| LOC | DIST | REVISIONS |     |                        |           |     |      |
|-----|------|-----------|-----|------------------------|-----------|-----|------|
| GP  | 00   | P         | LTR | DESCRIPTION            | DATE      | DWN | APVD |
|     |      |           | A   | RELEASED ECO-14-003627 | 11APR2014 | LAW | EB   |
|     |      |           |     |                        |           |     |      |
|     |      |           |     |                        |           |     |      |
|     |      |           |     |                        |           |     |      |



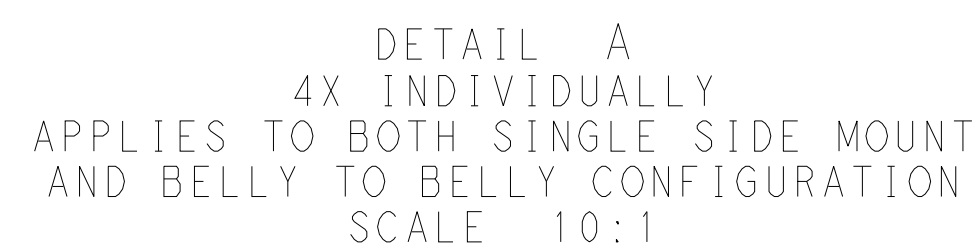
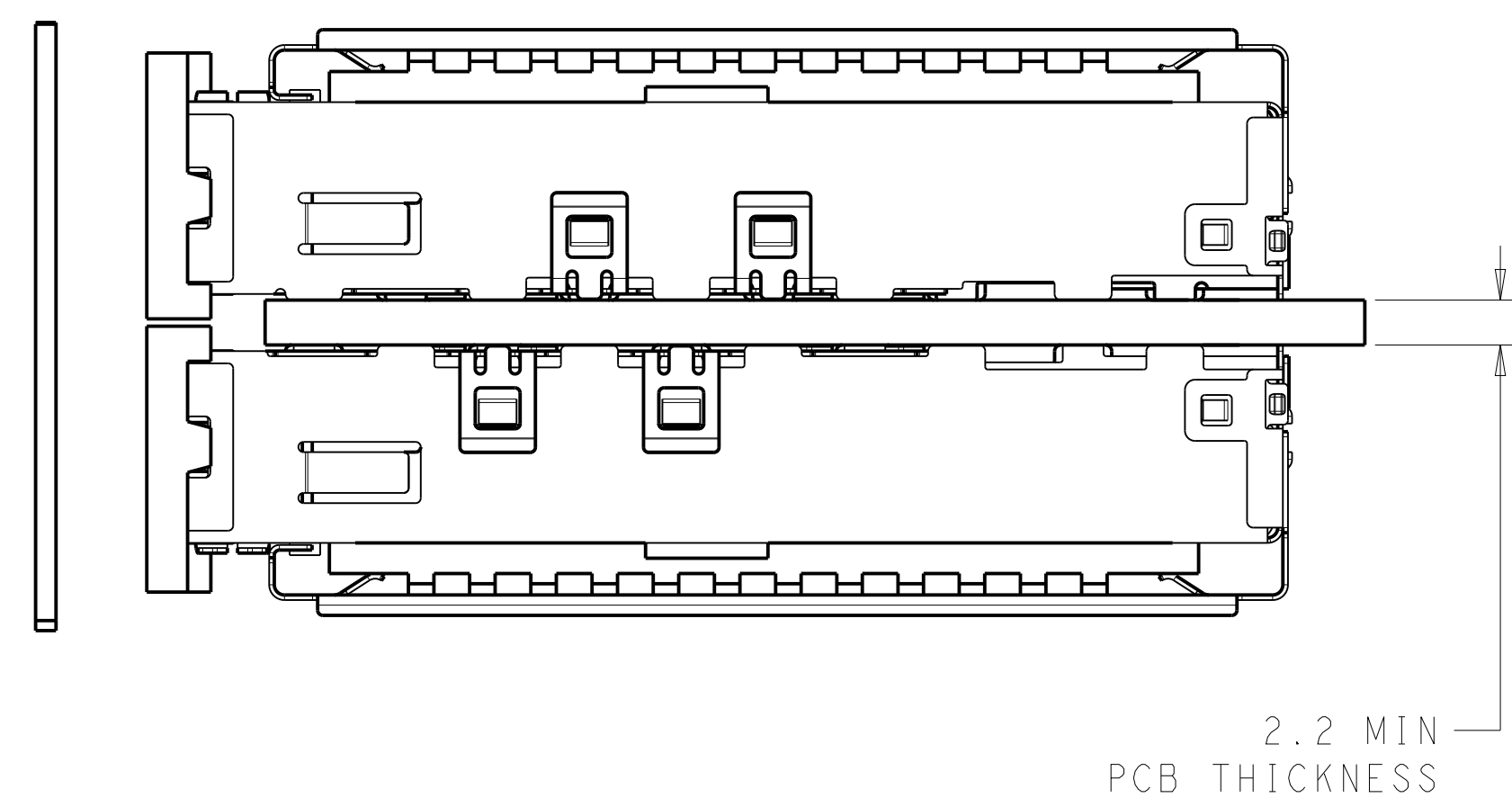
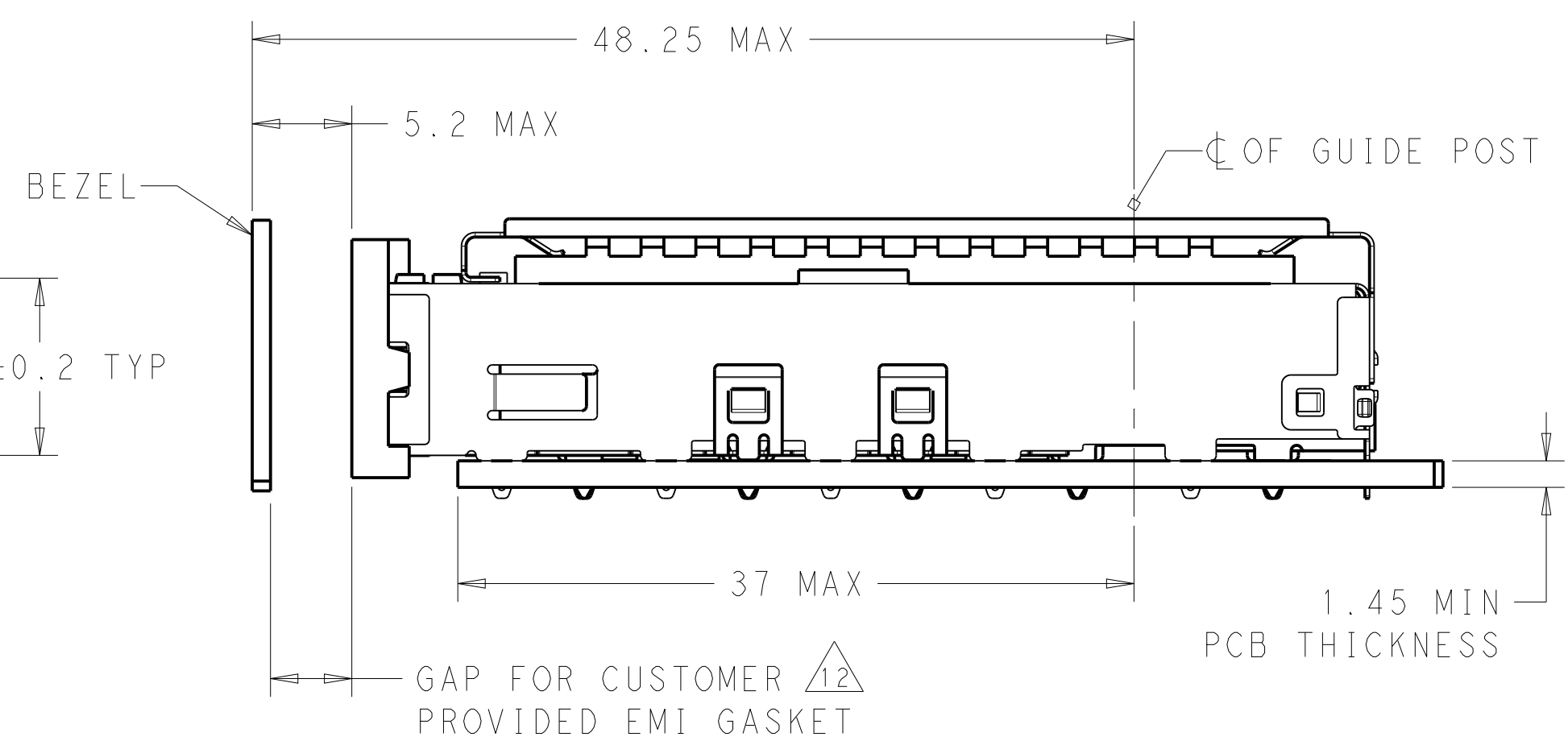
1. MATERIALS/FINISH:  
CAGE ASSEMBLY - NICKEL-SILVER ALLOY, (0.25) THICK  
EMI SPRINGS - COPPER ALLOY/2µm MIN TIN  
FRONT FLANGE - ZINC ALLOY/3µm MIN TIN OVER 1.27µm MIN NICKEL OVER 5.08µm MIN COPPER  
HEAT SINK - ALUMINUM/NICKEL  
HEAT SINK CLIP - STAINLESS STEEL
2. SPACING BETWEEN CAGES ON THE SAME PCB TO BE SPECIFIED BY THE CUSTOMER, MUST COMPLY WITH MINIMUM DIMENSION SHOWN
3. REFERENCE APPLICATION SPECIFICATION 114-32023 FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESS
4. DATUMS AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER
5. HEAT SINKS AND CLIPS ARE SHIPPED ASSEMBLED, CAGE ASSEMBLY MAY BE PRESSED INTO THE PCB AS SHIPPED
6. DIMENSION APPLIES WITH MODULE INSERTED IN CAGE
7. UNPLATED THRU HOLE
8. MATES WITH QSFP MSA COMPATIBLE TRANSCEIVER
9. SURFACE TRACES PERMITTED WITHIN THIS AREA EXCEPT WHERE CAGE STANDOFFS CONTACT PCB
10. BASELINE FOR THESE DIMENSIONS IS THE CENTER OF COMPLIANT PIN HOLE
11. DATE CODE (YYWWD) IS MARKED ON TOP OF CAGE BUT IS CONCEALED BY HEAT SINKS, APPLIES TO CAGE ASSEMBLY ONLY
12. REFERENCE APPLICATION SPECIFICATION 114-32023 FOR GASKET THICKNESS CALCULATION
13. DIMENSION C IS THE NOMINAL THICKNESS OF THE CUSTOMER SUPPLIED PC BOARD:  
SINGLE SIDED PC BOARD MINIMUM THICKNESS - 1.45  
DOUBLE SIDED PC BOARD MINIMUM THICKNESS - 2.4



|      |                   |             |
|------|-------------------|-------------|
| 23   | NETWORKING        | 2227249-3   |
| 16   | SAN               | 2227249-2   |
| 13.7 | PCI               | 2227249-1   |
| A    | HEAT SINK PROFILE | PART NUMBER |

|                                                                                               |  |                                 |                                                                   |  |  |
|-----------------------------------------------------------------------------------------------|--|---------------------------------|-------------------------------------------------------------------|--|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT<br>DIMENSIONING AND TOLERANCING<br>PER ASME Y14.5M-2009 |  | DWN<br>M.E. COWHER<br>15AUG2012 | TE Connectivity                                                   |  |  |
| DIMENSIONS:                                                                                   |  | CHK<br>R.R. HENRY<br>16AUG2012  | NAME                                                              |  |  |
| mm                                                                                            |  | APVD<br>R.R. HENRY<br>16AUG2012 | RECEPTACLE ASSEMBLY WITH HEAT<br>SINKS, BEHIND BEZEL, 1X4, OSPF28 |  |  |
| TOLERANCES UNLESS<br>OTHERWISE SPECIFIED:                                                     |  | PRODUCT SPEC                    |                                                                   |  |  |
| 0 PLC ±0.2                                                                                    |  | APPLICATION SPEC                |                                                                   |  |  |
| 1 PLC ±0.15                                                                                   |  | WEIGHT                          |                                                                   |  |  |
| 2 PLC ±0.1                                                                                    |  | Customer Drawing                |                                                                   |  |  |
| 3 PLC ±0.05                                                                                   |  | SCALE 5:1                       |                                                                   |  |  |
| 4 PLC ±0.025                                                                                  |  | SHEET 1 OF 4                    |                                                                   |  |  |
| ANGLES ±0.025                                                                                 |  | REV A                           |                                                                   |  |  |
| FINISH ±0.1                                                                                   |  |                                 |                                                                   |  |  |
| MATERIAL SEE NOTES                                                                            |  |                                 |                                                                   |  |  |
|                                                                                               |  |                                 |                                                                   |  |  |



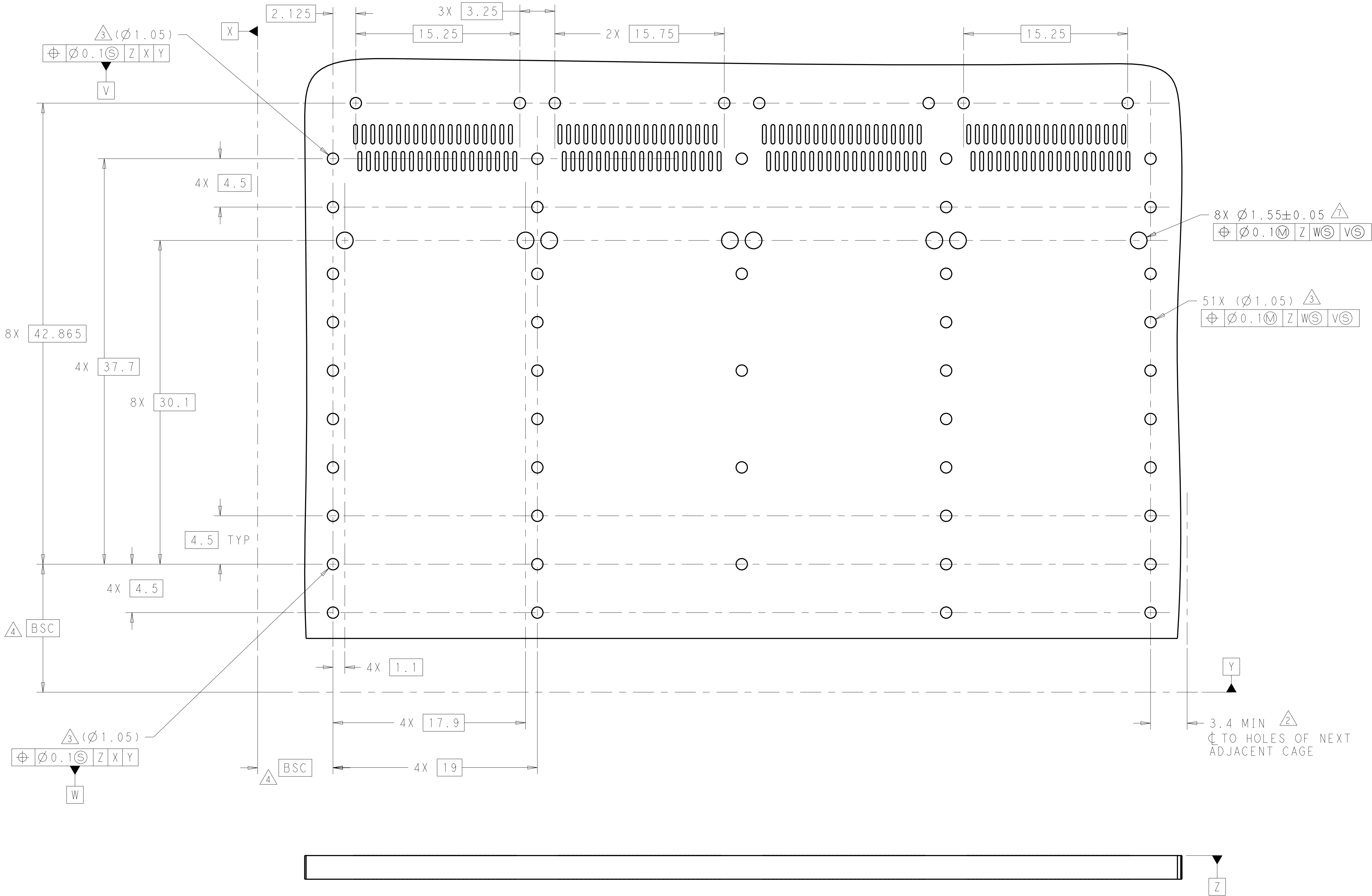
4805 (3/11)



4805 (3/11)



| LOC |    | DIST |     | REVISIONS   |  |      |     |      |  |
|-----|----|------|-----|-------------|--|------|-----|------|--|
| GP  | 00 | P    | LTR | DESCRIPTION |  | DATE | DWN | APVD |  |
|     |    | -    |     | SEE SHEET 1 |  | -    | -   | -    |  |
|     |    |      |     |             |  |      |     |      |  |
|     |    |      |     |             |  |      |     |      |  |
|     |    |      |     |             |  |      |     |      |  |



RECOMMENDED PCB LAYOUT  
BELLY TO BELLY CONFIGURATION  
SEE SINGLE SIDE MOUNT CONFIGURATION  
FOR COMPONENT AND TRACE KEEP-OUT  
SCALE 5:1

|                                                                                                |  |                                 |                                                                   |  |
|------------------------------------------------------------------------------------------------|--|---------------------------------|-------------------------------------------------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT.<br>DIMENSIONING AND TOLERANCING<br>PER ASME Y14.5M-2009 |  | DWN<br>M.E. CONNER<br>15AUG2012 | NAME                                                              |  |
| DIMENSIONS:<br>mm                                                                              |  | CHK<br>R.R. HENRY<br>16AUG2012  | RECEPTACLE ASSEMBLY WITH HEAT<br>SINKS, BEHIND BEZEL, 1X4, QSFP28 |  |
| TOLERANCES UNLESS<br>OTHERWISE SPECIFIED:                                                      |  | APVD<br>R.R. HENRY<br>16AUG2012 | SIZE                                                              |  |
| 0 PLC $\pm 0.2$                                                                                |  | PRODUCT SPEC                    | CAGE CODE                                                         |  |
| 1 PLC $\pm 0.15$                                                                               |  | APPLICATION SPEC                | DRAWING NO                                                        |  |
| 2 PLC $\pm 0.1$                                                                                |  | WEIGHT                          | RESTRICTED TO                                                     |  |
| 3 PLC $\pm 0.05$                                                                               |  | Customer Drawing                | A100779                                                           |  |
| 4 PLC $\pm 0.025$                                                                              |  | SCALE                           | SHEET                                                             |  |
| ANGLES $\pm 1$                                                                                 |  | 4:1                             | 4 OF 4                                                            |  |
| FINISH                                                                                         |  | REV                             | A                                                                 |  |
| SEE NOTES                                                                                      |  |                                 |                                                                   |  |