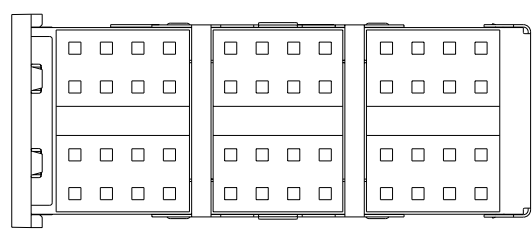
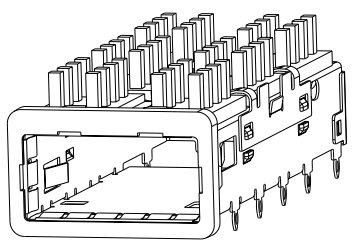
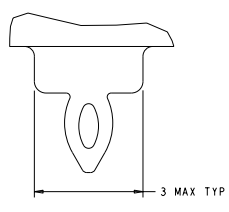
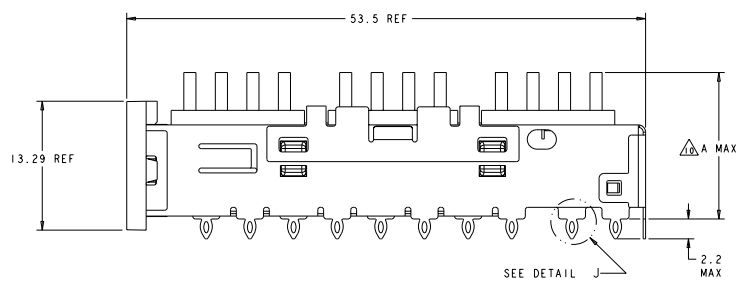
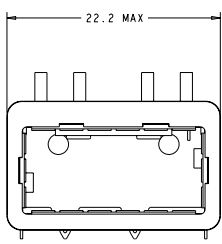


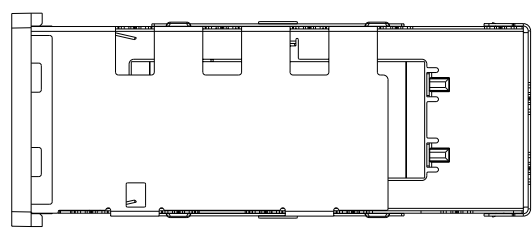
| REV | DATE | DESCRIPTION | BY | CHK | APP |
|-----|-----------------------|-------------|----|-----|-----|
| B | REV PER ECO-09-020400 | | | | |



- ⚠ CAGE MATERIAL: NICKEL SILVER, 0.25 THICK
- ⚠ HEAT SINK MATERIAL: ALUMINUM
- ⚠ HEAT SINK CLIP MATERIAL: STAINLESS STEEL
- ⚠ EMI SPRING MATERIAL: COPPER ALLOY
- ⚠ FRONT FLANGE MATERIAL: ZINC ALLOY
- ⚠ MINIMUM PITCH DIMENSION.
- 3. MATES WITH QSFP MSA COMPATIBLE TRANSCEIVER.
- ⚠ REFERENCE APPLICATION SPEC 114-13218 FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESS.
- ⚠ DATUMS AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.
- ⚠ DIMENSION C IS THE NOMINAL THICKNESS OF CUSTOMER SUPPLIED PC BOARD.
 SINGLE SIDED PC BOARD MINIMUM THICKNESS: 1.45
 DOUBLE SIDED PC BOARD MINIMUM THICKNESS: 2.7.
- ⚠ HEAT SINK AND CLIP SHIPPED ASSEMBLED TO CAGE ASSEMBLY. CAGE ASSEMBLY MAY BE PRESSED INTO THE PCB AS SHIPPED.
- ⚠ DATUM [-A-] IS TOP SURFACE OF HOST BOARD.
- ⚠ SURFACE TRACES PERMITTED WITHIN THIS AREA EXCEPT WHERE CAGE STANDOFFS, SHOWN IN DETAIL J, CONTACT PC BOARD.
- ⚠ DIMENSION APPLIES WITH MODULE INSTALLED IN THE CAGE.
- ⚠ DATE CODE (YYWW) MARKED ON TOP OF CAGE AND CONCEALED BY HEAT SINK APPLIES TO CAGE ASSEMBLY ONLY.
- ⚠ EMI SPRING FINISH: 2µm MIN TIN
 FRONT FLANGE FINISH: 3µm MIN TIN OVER 1.27µm MIN NICKEL OVER 5.08µm MIN COPPER.
 HEAT SINK FINISH: 0.076µm MIN NICKEL.
- 13. PRODUCT HAS NOT COMPLETED QUALIFICATION TESTING.



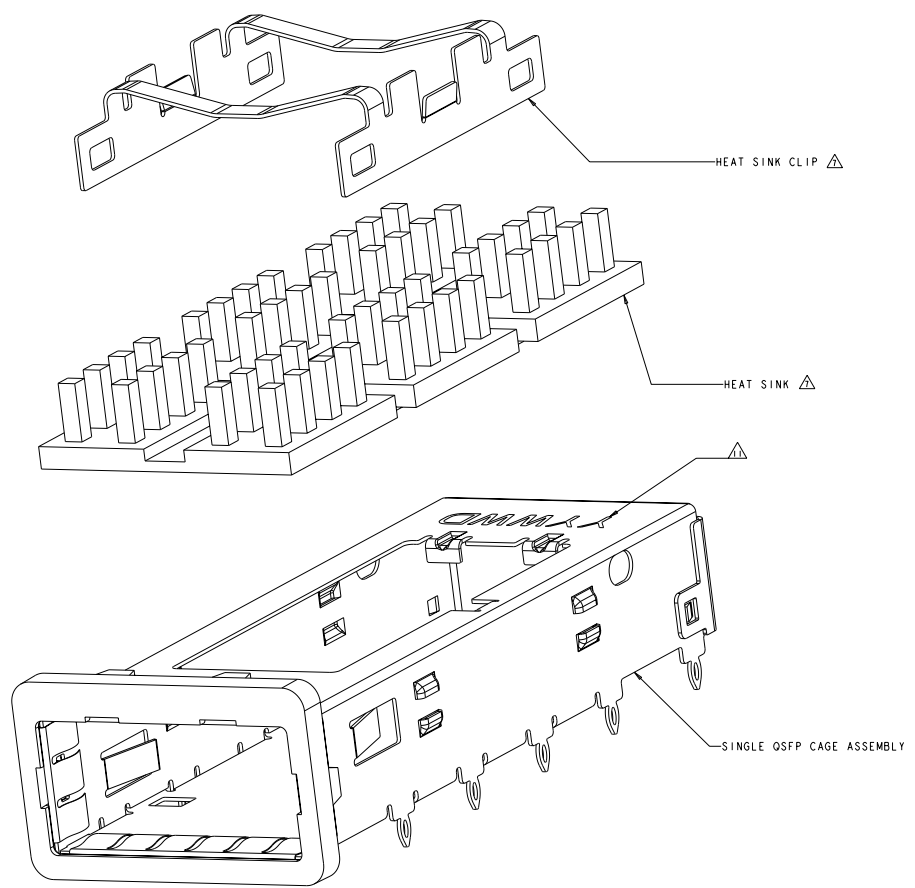
DETAIL J
 SCALE 20:1



| DESCRIPTION | PART NUMBER |
|----------------------------|-------------|
| 23.0 NETWORKING HEAT SINK | 1888968-3 |
| 16.0 SAN HEAT SINK (SHOWN) | 1888968-2 |
| 13.7 PCI HEAT SINK | 1888968-1 |

| REV | DATE | DESCRIPTION | BY | CHK | APP |
|-----|------|---|----|-----|-----|
| A | | CAGE ASSEMBLY, BEHIND BEZEL, OSFP, WITH HEAT SINK | | | |

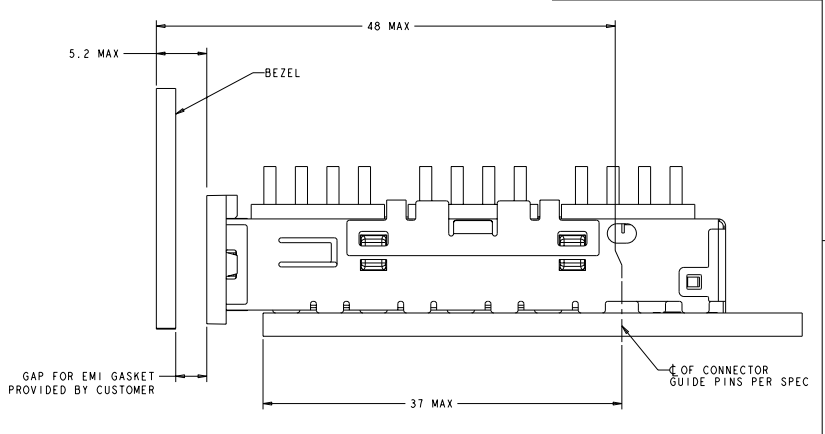
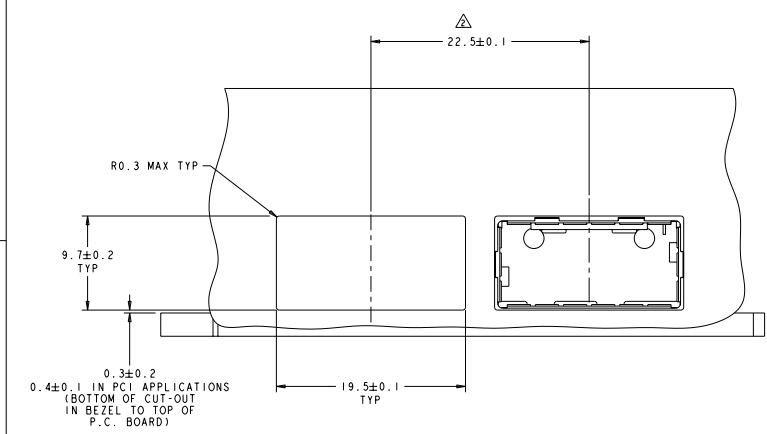
| REVISONS | | DATE | BY | APP |
|----------|----|------|----|-----|
| GP | 00 | | | |
| | | | | |
| | | | | |



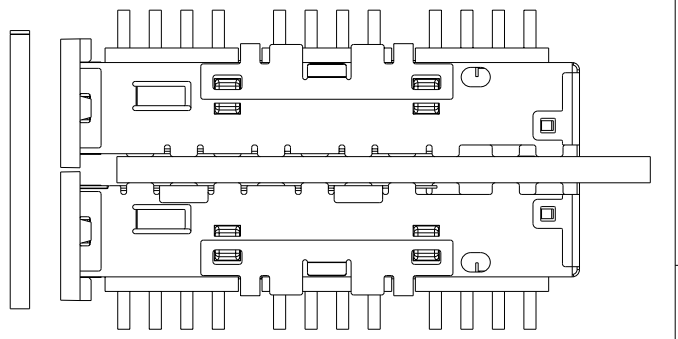
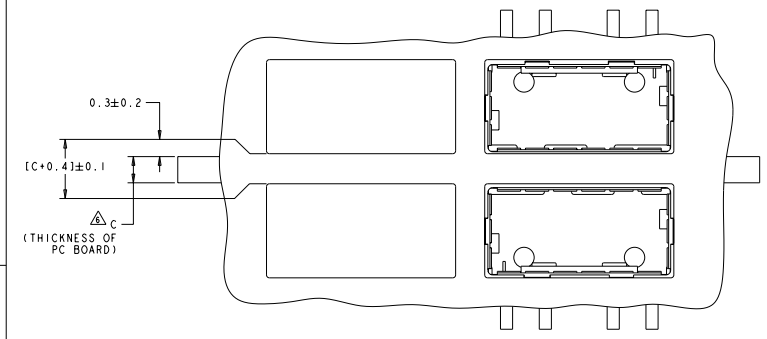
EXPLODED VIEW
 SCALE 8:1

| | | | | |
|---|--|---|---|---|
| TITLE: SINGLE OSFP CAGE ASSEMBLY WITH HEAT SINK PART NO: 188-2286 QUANTITY: 1000 DATE: 11/16/18 DRAWN BY: J. J. J. CHECKED BY: J. J. J. APPROVED BY: J. J. J. | | DATE: 11/16/18 DRAWN BY: J. J. J. CHECKED BY: J. J. J. APPROVED BY: J. J. J. | DATE: 11/16/18 DRAWN BY: J. J. J. CHECKED BY: J. J. J. APPROVED BY: J. J. J. | DATE: 11/16/18 DRAWN BY: J. J. J. CHECKED BY: J. J. J. APPROVED BY: J. J. J. |
| CUSTOMER DRAWING | | PART NO: 188-2286 QUANTITY: 1000 | DATE: 11/16/18 DRAWN BY: J. J. J. CHECKED BY: J. J. J. APPROVED BY: J. J. J. | DATE: 11/16/18 DRAWN BY: J. J. J. CHECKED BY: J. J. J. APPROVED BY: J. J. J. |

| REV. NO. | | DESCRIPTION | DATE | BY | CHK |
|----------|----|-------------|------|----|-----|
| GP | 00 | SEE SHEET 1 | | | |



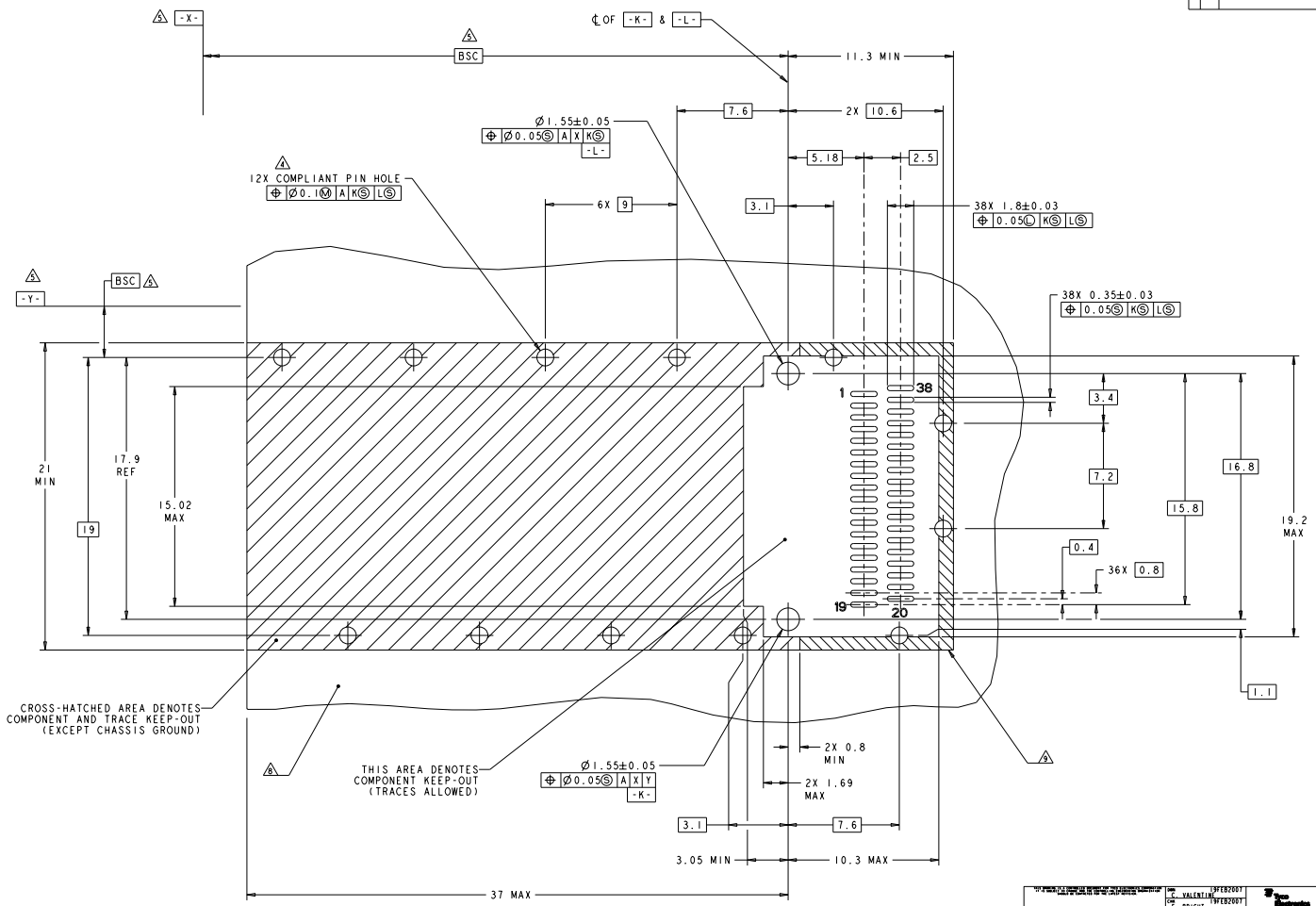
ONE SIDED CONFIGURATION



BELLY TO BELLY CONFIGURATION
 SIMILAR TO ONE SIDED EXCEPT
 WHERE NOTED

| | | | | |
|---|--|--|--|---|
| DATE: 02/25/2008 TIME: 10:00 AM DRAWN BY: J. J. J. CHECKED BY: J. J. J. APPROVED BY: J. J. J. | PART NO.: 188-2286 SPECIFICATION NO.: 114-13218 REV: A | QTY: 1 CASE CODE: 00000000 WEIGHT: 0.0000 CUSTOMER DRAWING: 00779 | TITLE: CAGE ASSEMBLY, BEHIND BEZEL, OSFP, WITH HEAT SINK PART NO.: 188-2286 SPECIFICATION NO.: 114-13218 REV: A CASE CODE: 00000000 WEIGHT: 0.0000 CUSTOMER DRAWING: 00779 | TECH ELECTRONICS Harrisburg, PA 17105-3600 717-651-1000 |
|---|--|--|--|---|

| REVISOR | | DESCRIPTION | DATE | BY | CHK |
|---------|----|-------------|------|----|-----|
| GP | 00 | SEE SHEET 1 | | | |



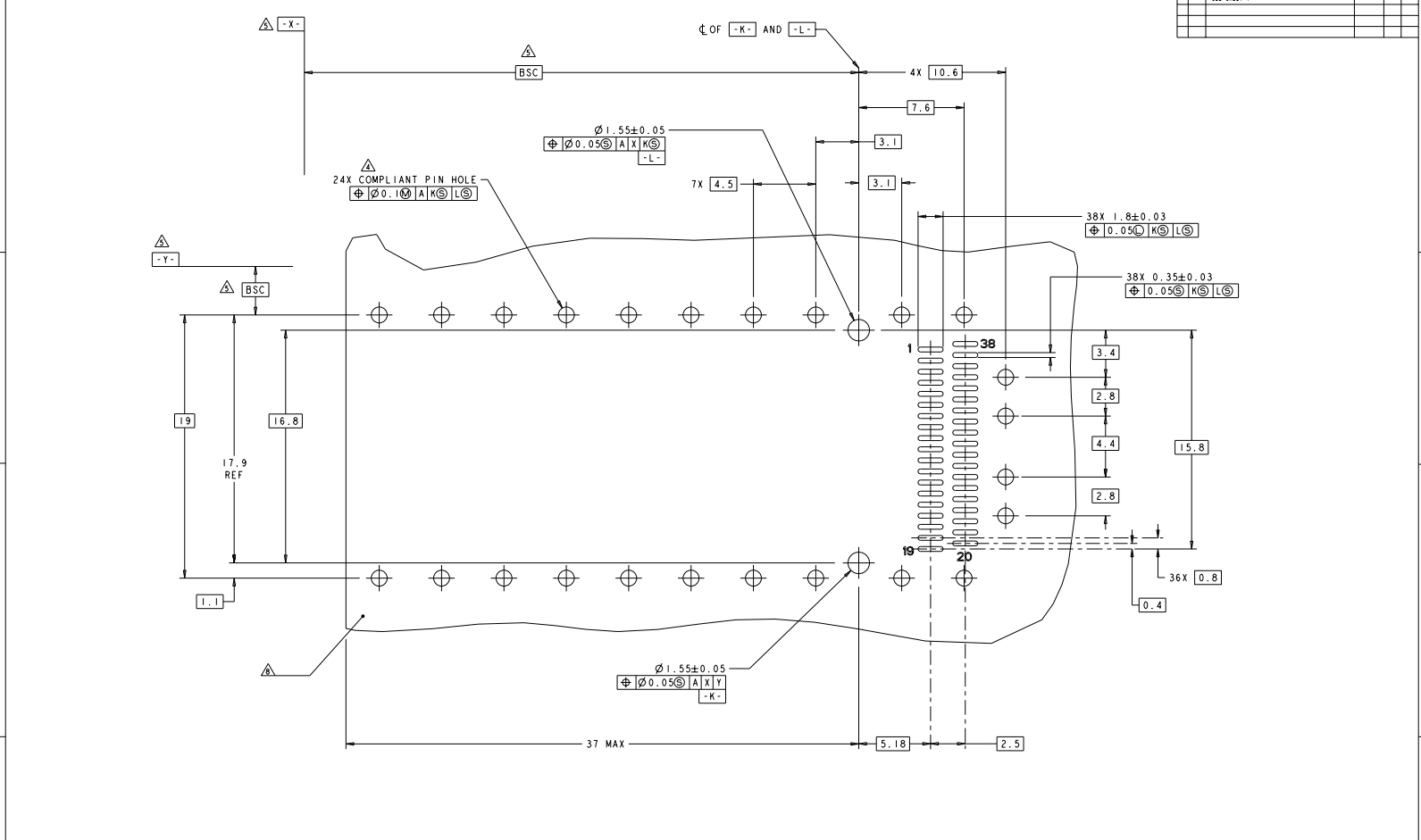
CROSS-HATCHED AREA DENOTES COMPONENT AND TRACE KEEP-OUT (EXCEPT CHASSIS GROUND)

THIS AREA DENOTES COMPONENT KEEP-OUT (TRACES ALLOWED)

RECOMMENDED PCB LAYOUT
SINGLE SIDED CONFIGURATION
SCALE: 8:1

| | | | | | |
|--|--|--|--|--|--|
| DATE: 08/24/2016 BY: TPC ELECTRONICS CORPORATION ALL RIGHTS RESERVED | | DATE: 08/24/2016 BY: TPC ELECTRONICS CORPORATION ALL RIGHTS RESERVED | | DATE: 08/24/2016 BY: TPC ELECTRONICS CORPORATION ALL RIGHTS RESERVED | |
| PART NO: 188-2286 REV: 01 DATE: 08/24/2016 BY: TPC ELECTRONICS CORPORATION ALL RIGHTS RESERVED | PART NO: 188-2286 REV: 01 DATE: 08/24/2016 BY: TPC ELECTRONICS CORPORATION ALL RIGHTS RESERVED | PART NO: 188-2286 REV: 01 DATE: 08/24/2016 BY: TPC ELECTRONICS CORPORATION ALL RIGHTS RESERVED | PART NO: 188-2286 REV: 01 DATE: 08/24/2016 BY: TPC ELECTRONICS CORPORATION ALL RIGHTS RESERVED | PART NO: 188-2286 REV: 01 DATE: 08/24/2016 BY: TPC ELECTRONICS CORPORATION ALL RIGHTS RESERVED | PART NO: 188-2286 REV: 01 DATE: 08/24/2016 BY: TPC ELECTRONICS CORPORATION ALL RIGHTS RESERVED |
| CUSTOMER DRAWING | | | CUSTOMER DRAWING | | |

| REV. NO. | | REVISIONS | |
|----------|------|-------------|----|
| NO. | DATE | DESCRIPTION | BY |
| 00 | | SEE SHEET 1 | |



RECOMMENDED PCB LAYOUT
 BELLY TO BELLY CONFIGURATION
 SEE SHEET 4 FOR KEEP OUT AREAS
 SCALE 8:1

| | | | | | |
|--|--|--|--|--|--|
| DATE: 02/28/2007 TIME: 10:00 AM USER: J. BRIGLEY PROJECT: 19FER2007 PART: 188-2286 SPECIFICATION: SPEC DRAWING NO: 114-13218 REV: 1 CUSTOMER DRAWING | | 19FER2007 19FER2007 188-2286 SPECIFICATION: SPEC 114-13218 1 00779-1888968 SHEET 5 OF 5 | | Title Electronics Harrisburg, PA 17105-3600 CAGE ASSEMBLY, BEHIND BEZEL, OSFP, WITH HEAT SINK PART NUMBER 100 00779-1888968 SHEET 5 OF 5 | |
|--|--|--|--|--|--|