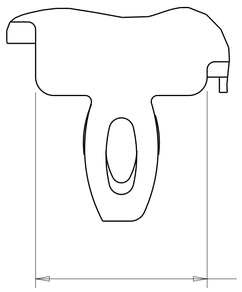
THIS DRAWING IS UNPUBLISHED. RELEASED FOR PUBLICATION 2007
© COPYRIGHT 2007 BY - ALL RIGHTS RESERVED.

| LOC | DIST |
|---|---|
| GP | 00 |

REVISIONS

| P | LTR | DESCRIPTION | DATE | DWN | APVD |
|---|---|---|---|---|---|
| | C1 | REVISED PER ECO-11-004835 | 11MAR2011 | RK | HMR |
| | D | REVISED PER ECO-12-005533 | 31MAR2012 | JY | AC |
| | E | REVISED PER ECO-13-009872 | 26NOV2013 | RG | MC |
| | F | REVISED PER ECO-14-016878 | 3DEC2014 | RG | MC |




DETAIL S △12
SCALE 20:1

△1 CAGE ASSEMBLY MATERIAL: NICKEL SILVER, 0.25 THICK
HEAT SINK MATERIAL: ALUMINUM
HEAT SINK CLIP MATERIAL: STAINLESS STEEL
EMI SPRINGS MATERIAL: COPPER ALLOY
FRONT FLANGE MATERIAL: ZINC ALLOY
LIGHT PIPE MATERIAL: CLEAR POLYCARBONATE

△2 PITCH BETWEEN PORTS OF ONE 1X3 CAGE ASSEMBLY.

△3 SPACING BETWEEN CAGES ON THE SAME PC BOARD, TO BE SPECIFIED BY CUSTOMER, MUST COMPLY WITH MINIMUM DIMENSIONS SHOWN.

△4 REFERENCE APPLICATION SPEC 114-13218 FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESS.

△5 DATUMS AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.

△6 DIMENSION F IS THE NOMINAL THICKNESS OF CUSTOMER SUPPLIED PC BOARD,
SINGLE SIDED PC BOARD MINIMUM THICKNESS = 1.45mm
DOUBLE SIDED PC BOARD MINIMUM THICKNESS = 2.2mm PER QSFP

△7 HEAT SINKS, LIGHT PIPES, AND HEAT SINK CLIPS SHIPPED ASSEMBLED TO CAGE ASSEMBLY. CAGE ASSEMBLY MAY BE PRESSED INTO THE PCB AS SHIPPED.

△8 DATUM [-A-] IS TOP SURFACE OF PC BOARD.

△9 DIMENSION APPLIES WITH MODULE INSERTED IN CAGE.

△10 UNPLATED THRU HOLE.

11. MATES WITH QSFP MSA COMPATIBLE TRANSCEIVER.

△12 SURFACE TRACES PERMITTED WITHIN THIS AREA EXCEPT WHERE CAGE STANDOFFS, SHOWN IN DETAIL S, CONTACT PC BOARD.

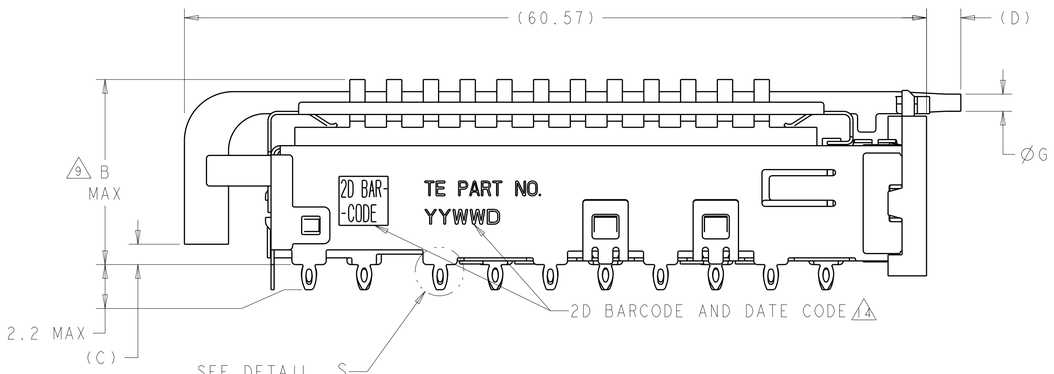
△13 BASELINE FOR THESE DIMENSIONS IS THE CENTER OF COMPLIANT PIN HOLE.

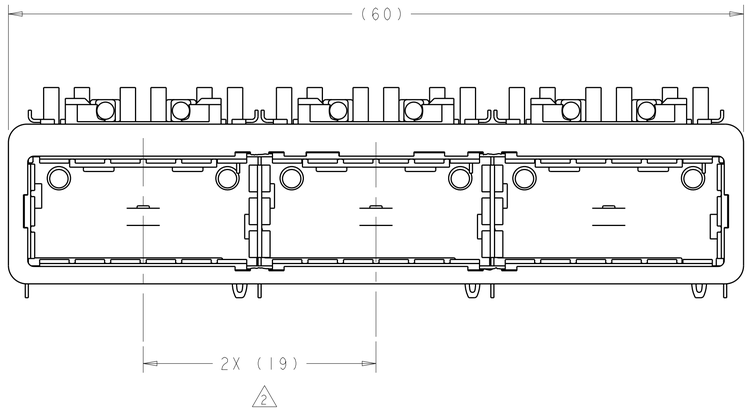
△14 2D BARCODE AND DATE CODE (YYWWD) MARKED ON SIDE OF CAGE ASSEMBLY.

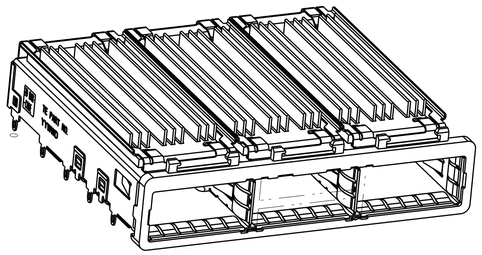
△15 REFERENCE APP SPEC 114-13218 FOR GASKET THICKNESS CALCULATION.

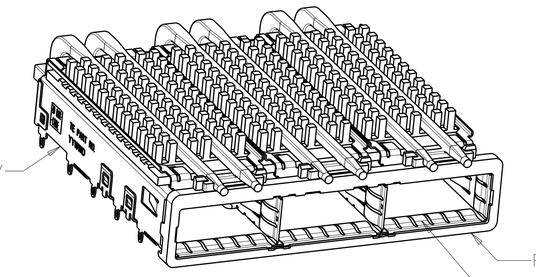
△16 EMI SPRING FINISH: 2µm MIN TIN
FRONT FLANGE FINISH: 3µm MIN TIN OVER 1.27µm MIN NICKEL OVER 5.08µm MIN COPPER.
HEAT SINK FINISH: BLACK ANODIZED.

△17 HEAT SINKS AND CLIPS SHIPPED ASSEMBLED TO CAGE ASSEMBLY. CAGE ASSEMBLY MAY BE PRESSED IN TO THE PCB AS SHIPPED. LIGHT PIPES, SHIPPED UNATTACHED, MUST BE ASSEMBLED BY CUSTOMER AFTER THE CAGE IS SEATED IN THE PCB.

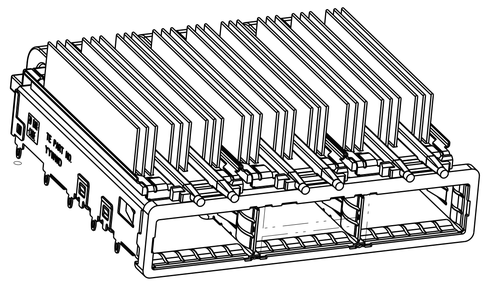




1-2057042-0




SCALE 2:1
2057042-2



SCALE 2:1
1-2057042-1

| | G | E | D | C | B | HEAT SINK PROFILE | PART NUMBER |
|---|---|---|---|---|---|---|---|
| △7 | 1.4 | 0.8-1.1 | 2.0 | 1.70 | 21.0 | FIN TYPE | 1-2057042-1 |
| | N/A | N/A | N/A | N/A | 15.0 | FIN TYPE | 1-2057042-0 |
| △7 | 2.0 | 0.8-1.1 | 3.5 | 1.70 | 16.8 | CUSTOMERIZED | 2057042-9 |
| △7 | 1.4 | 0.8-1.1 | 2.0 | 1.70 | 23.0 | NETWORKING | 2057042-8 |
| △7 | 1.4 | 0.8-1.1 | 2.0 | 1.70 | 16.0 | SAN | 2057042-7 |
| △7,17 | 1.4 | 0.8-1.1 | 2.0 | 1.70 | 13.7 | PCI | 2057042-6 |
| △7 | 1.4 | 1.3-1.4 | 5.7 | 2.15 | 16.0 | SAN | 2057042-5 |
| △7,17 | 1.4 | 1.3-1.4 | 5.7 | 2.15 | 13.7 | PCI | 2057042-4 |
| △7 | 1.4 | 0.8-1.1 | 2.8 | 1.70 | 23.0 | NETWORKING | 2057042-3 |
| △7 | 1.4 | 0.8-1.1 | 2.8 | 1.70 | 16.0 | SAN | 2057042-2 |
| △7,17 | 1.4 | 0.8-1.1 | 2.8 | 1.70 | 13.7 | PCI | 2057042-1 |

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

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

MATERIAL △1
FINISH △16

DWN C. VALENTINE 28FEB2008
CHK E. BRIGHT 28FEB2008
APVD E. BRIGHT 28FEB2008
PRODUCT SPEC 108-2286
APPLICATION SPEC 114-13218
WEIGHT -

TE Connectivity

NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ LIGHT PIPES AND HEAT SINKS, QSFP

| SIZE | CAGE CODE | DRAWING NO | RESTRICTED TO |
|---|---|---|---|
| A1 | 00779 | C-2057042 | - |

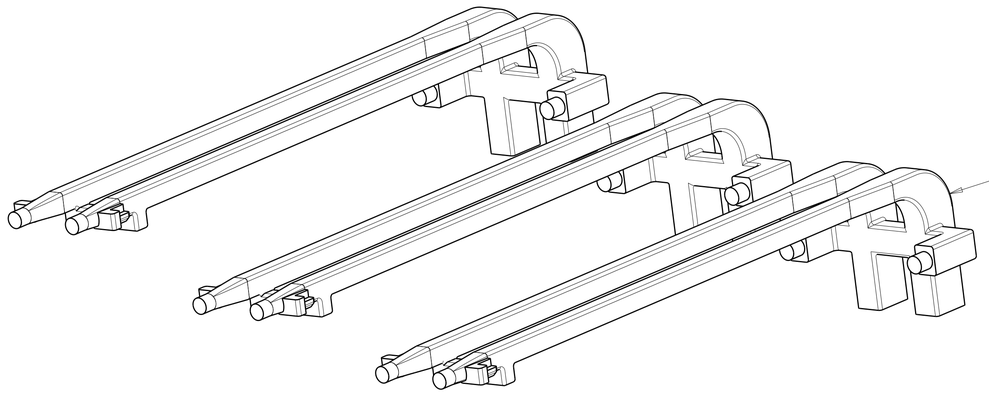
CUSTOMER DRAWING | SCALE 4:1 | SHEET 1 OF 5 | REV F

THIS DRAWING IS UNPUBLISHED. RELEASED FOR PUBLICATION 2007
© COPYRIGHT 2007 BY - ALL RIGHTS RESERVED.

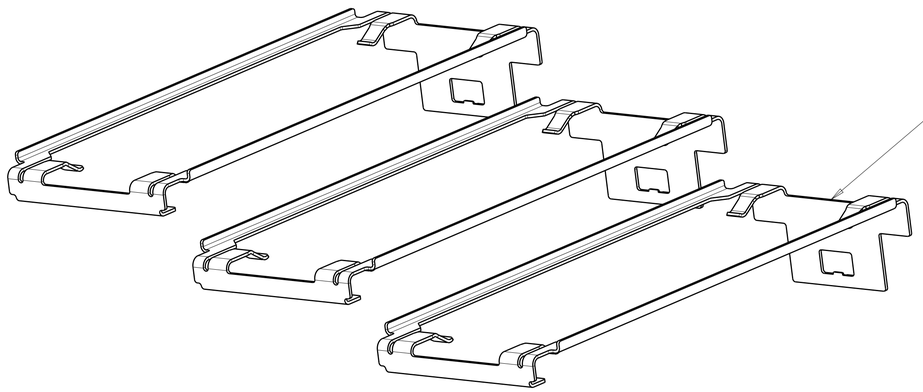
| LOC | DIST |
|---|---|
| GP | 00 |

REVISIONS

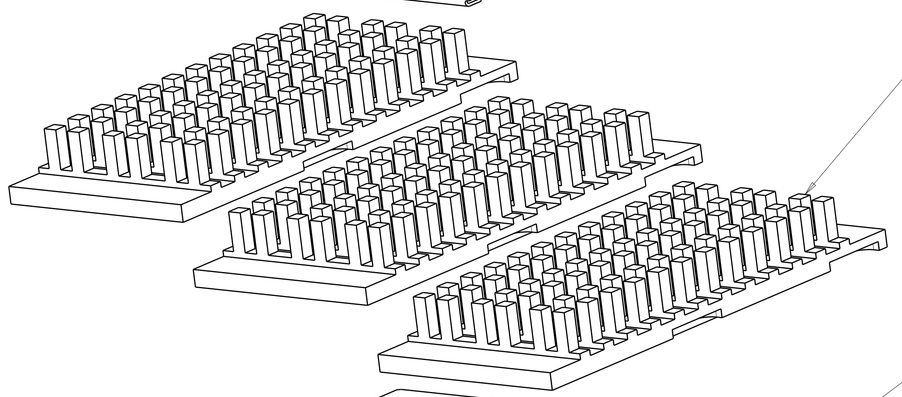
| P | LTR | DESCRIPTION | DATE | DWN | APVD |
|---|---|---|---|---|---|
| | - | SEE SHEET 1 | - | - | - |



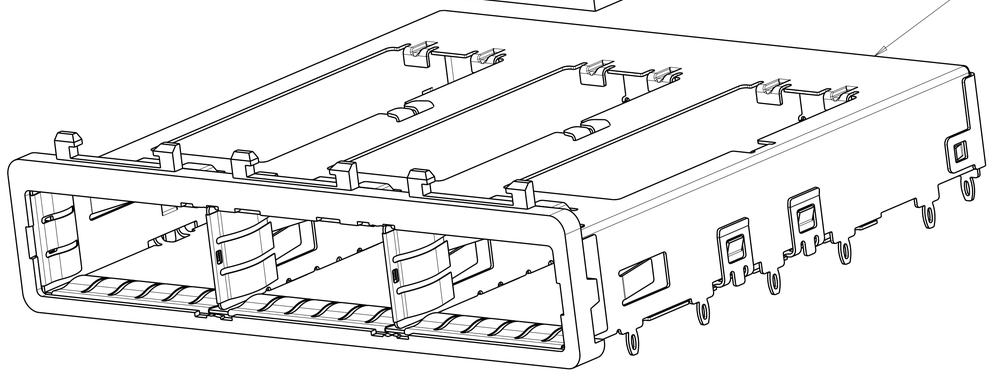
7 17 DOUBLE LIGHT PIPES
QUANTITY: 3



7 17 HEAT SINK CLIPS
QUANTITY: 3



7 17 72 PIN HEAT SINKS
QUANTITY: 3



1X3 BEHIND BEZEL QSFP
CAGE ASSEMBLY
QUANTITY: 1

THIS PRODUCT HAS NOT COMPLETED
VALIDATION/QUALIFICATION TESTING

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

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

MATERIAL
FINISH

DWN C VALENTINE 28FEB2008
CHK E BRIGHT 28FEB2008
APVD E BRIGHT 28FEB2008
PRODUCT SPEC 108-2286
APPLICATION SPEC 114-13218
WEIGHT -

TE Connectivity

NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ LIGHT PIPES AND HEAT SINKS, QSFP

| SIZE | CAGE CODE | DRAWING NO | RESTRICTED TO |
|---|---|---|---|
| A1 | 00779 | C-2057042 | - |

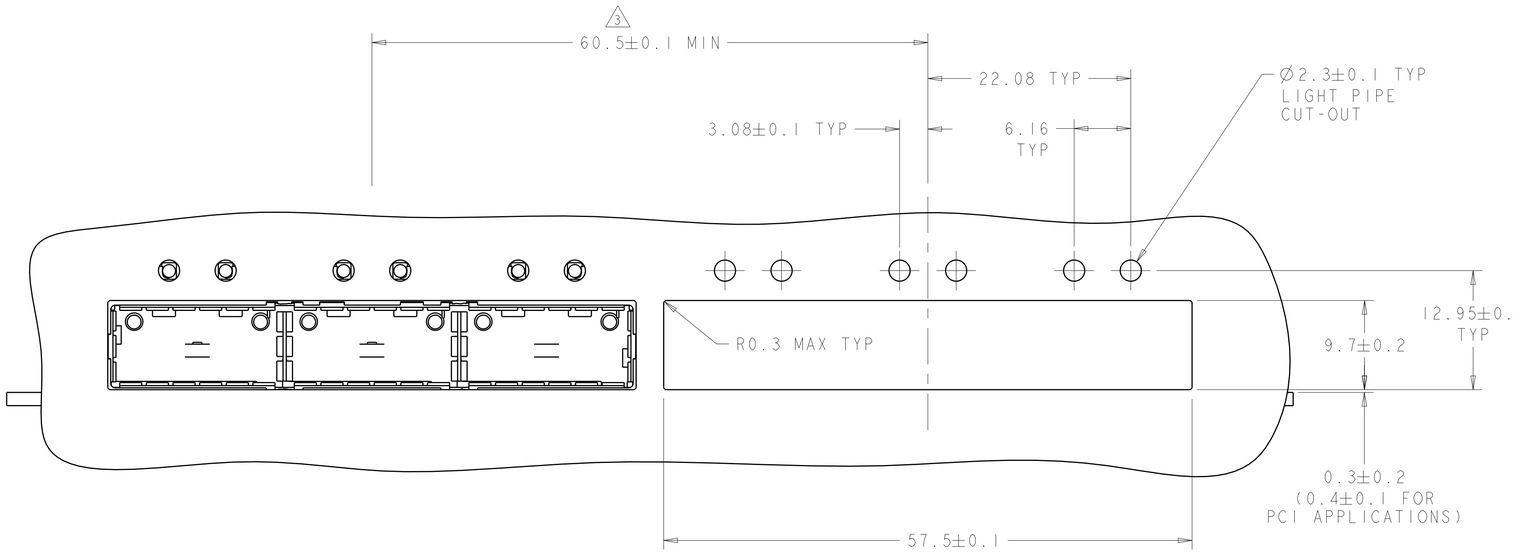
CUSTOMER DRAWING | SCALE 4:1 | SHEET 2 OF 5 | REV F

THIS DRAWING IS UNPUBLISHED. RELEASED FOR PUBLICATION 2007
© COPYRIGHT 2007 BY - ALL RIGHTS RESERVED.

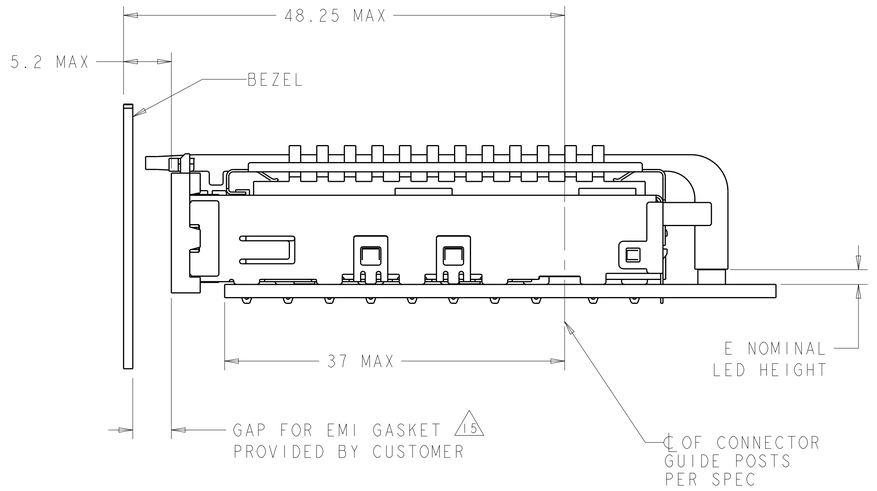
| LOC | DIST |
|---|---|
| GP | 00 |

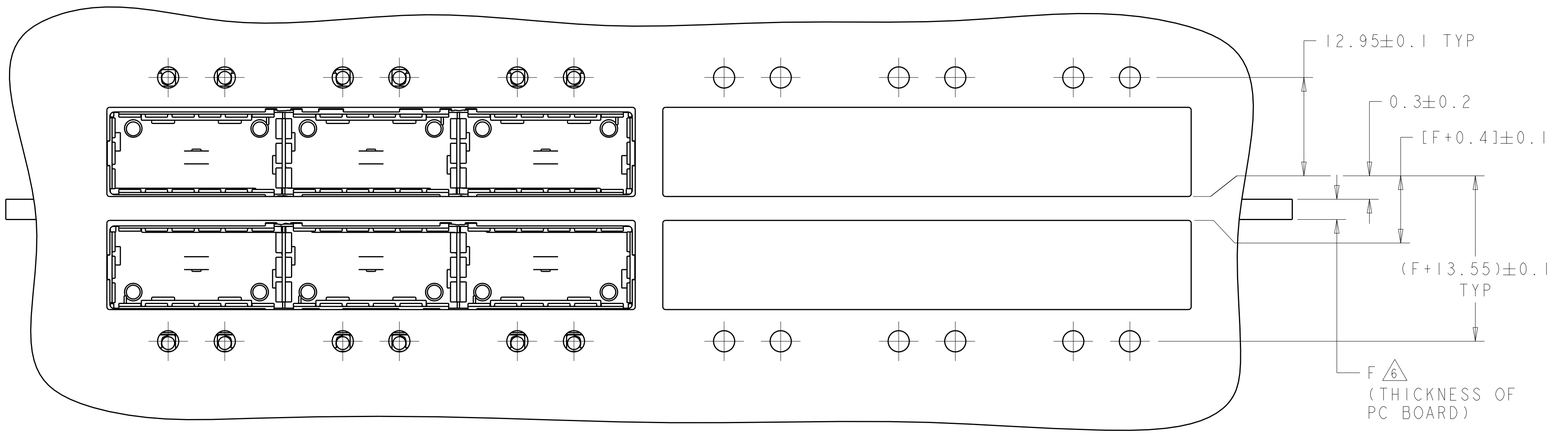
REVISIONS

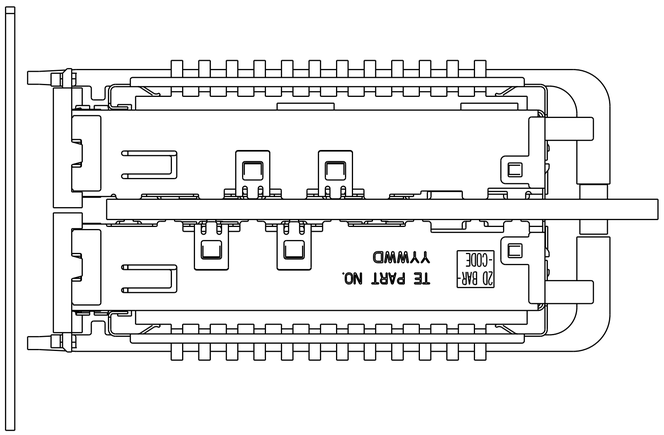
| P | LTR | DESCRIPTION | DATE | DWN | APVD |
|---|---|---|---|---|---|
| | - | SEE SHEET 1 | - | - | - |




ONE SIDED CONFIGURATION
SCALE 3:1




BELLY TO BELLY CONFIGURATION SIMILAR
TO ONE SIDED EXCEPT WHERE NOTED
SCALE 3:1

THIS PRODUCT HAS NOT COMPLETED VALIDATION/QUALIFICATION TESTING

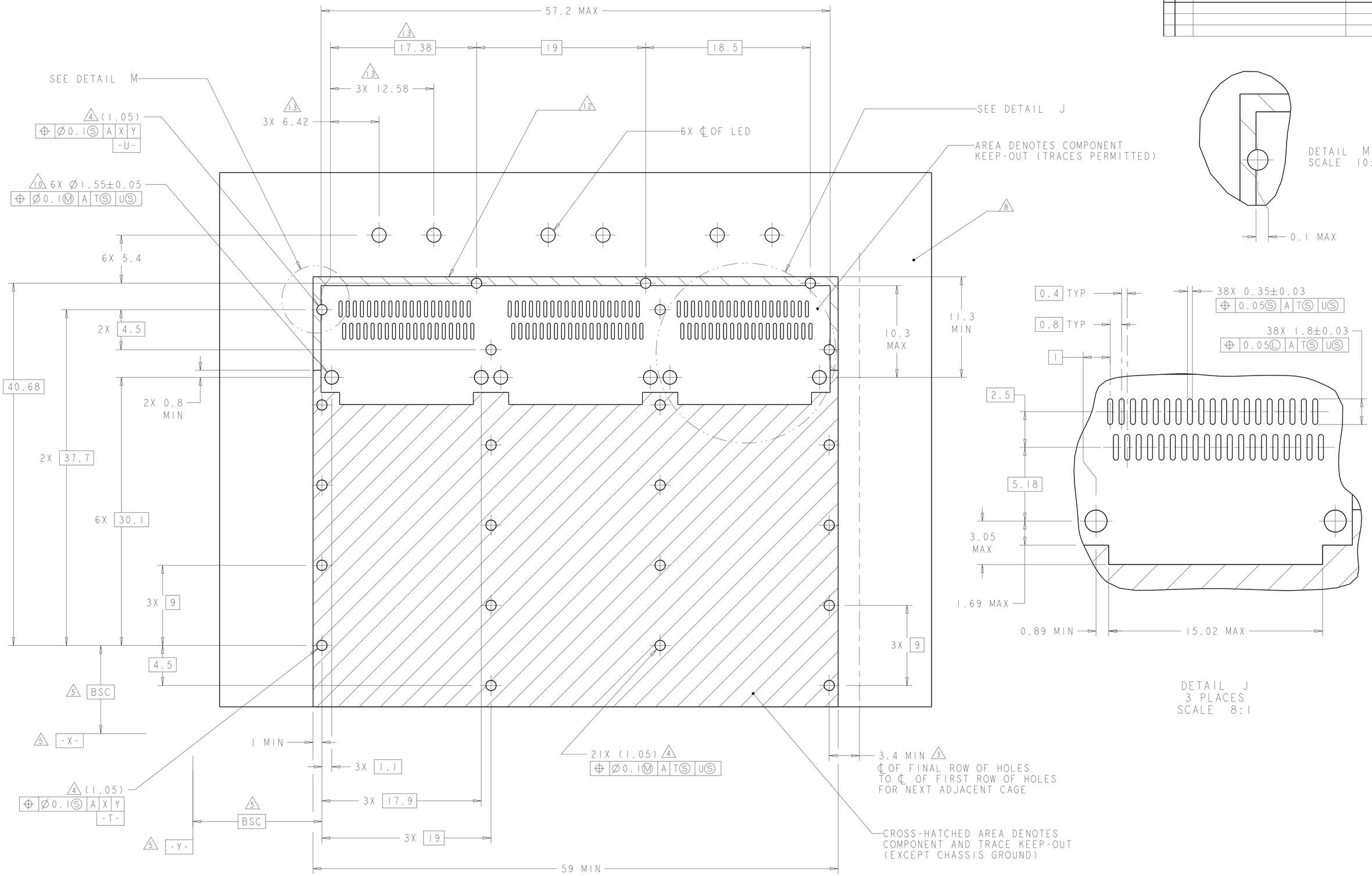
| | | | |
|---|---|---|---|
| THIS DRAWING IS A CONTROLLED DOCUMENT. | | DWN C. VALENTINE 28FEB2008 | TE Connectivity |
| DIMENSIONS: mm | TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- 1 PLC ±0.1 2 PLC ±0.1 3 PLC ±- 4 PLC ±- ANGLES ±- | CHK E. BRIGHT 28FEB2008 | NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ LIGHT PIPES AND HEAT SINKS, QSFP |
| | | APVD E. BRIGHT 28FEB2008 | PRODUCT SPEC 108-2286 |
| | | | APPLICATION SPEC 114-13218 |
| MATERIAL | FINISH | WEIGHT - | SIZE A1 · CAGE CODE 00779 · DRAWING NO C-2057042 · RESTRICTED TO - |
| | | CUSTOMER DRAWING | SCALE 4:1 · SHEET 3 OF 5 · REV F |

THIS DRAWING IS UNPUBLISHED. RELEASED FOR PUBLICATION 2007
© COPYRIGHT 2007 BY - ALL RIGHTS RESERVED.

| LOC | DIST |
|---|---|
| GP | 00 |

REVISIONS

| P | LTR | DESCRIPTION | DATE | DWN | APVD |
|---|---|---|---|---|---|
| | - | SEE SHEET 1 | - | - | - |







DETAIL M
SCALE 10:1




DETAIL J
3 PLACES
SCALE 8:1

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

THIS PRODUCT HAS NOT COMPLETED VALIDATION/QUALIFICATION TESTING

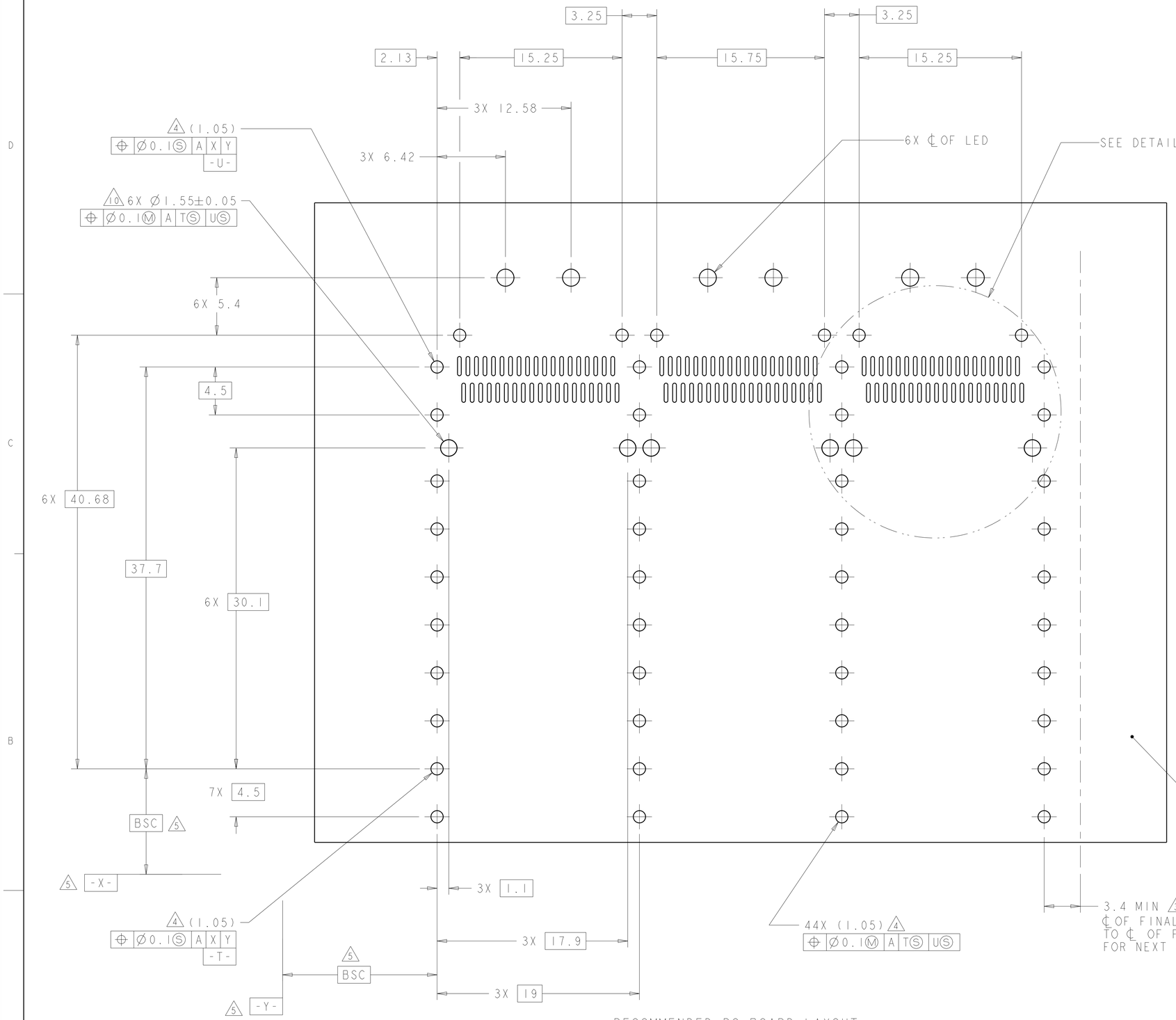
| | | | |
|---|---|---|---|
| THIS DRAWING IS A CONTROLLED DOCUMENT. | | DWN C. VALENTINE 28FEB2008 | TE Connectivity |
| DIMENSIONS: mm | TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- 1 PLC ±0.1 2 PLC ±0.1 3 PLC ±- 4 PLC ±- ANGLES ±- | CHK E. BRIGHT 28FEB2008 | NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ LIGHT PIPES AND HEAT SINKS, QSFP |
| | | APVD E. BRIGHT 28FEB2008 | |
| | | PRODUCT SPEC 108-2286 | |
| | | APPLICATION SPEC 114-13218 | SIZE A1 · CAGE CODE 00779 · DRAWING NO C-2057042 · RESTRICTED TO - |
| MATERIAL | FINISH | WEIGHT - | SCALE 4:1 · SHEET 4 OF 5 · REV F |
| | | CUSTOMER DRAWING | |

THIS DRAWING IS UNPUBLISHED. RELEASED FOR PUBLICATION 2007
© COPYRIGHT 2007 BY - ALL RIGHTS RESERVED.

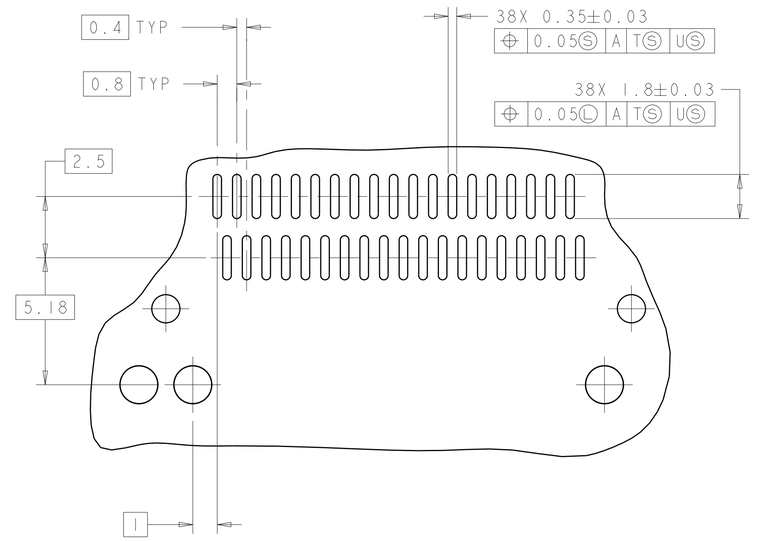
| LOC | DIST |
|---|---|
| GP | 00 |

REVISIONS

| P | LTR | DESCRIPTION | DATE | DWN | APVD |
|---|---|---|---|---|---|
| | - | SEE SHEET 1 | - | - | - |




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




DETAIL K
3 PLACES
SCALE 8:1

THIS PRODUCT HAS NOT COMPLETED VALIDATION/QUALIFICATION TESTING

| | | | |
|---|---|---|---|
| THIS DRAWING IS A CONTROLLED DOCUMENT. | | DWN C VALENTINE 28FEB2008 | TE Connectivity |
| DIMENSIONS: mm | TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- 1 PLC ±0.1 2 PLC ±0.1 3 PLC ±- 4 PLC ±- ANGLES ±- | CHK E BRIGHT 28FEB2008 | NAME 1X3 CAGE ASSEMBLY, BEHIND BEZEL, W/ LIGHT PIPES AND HEAT SINKS, QSFP |
| | | APVD E BRIGHT 28FEB2008 | PRODUCT SPEC 108-2286 |
| | | | APPLICATION SPEC 114-13218 |
| MATERIAL | FINISH | WEIGHT - | SIZE A1 · CAGE CODE 00779 · DRAWING NO C-2057042 · RESTRICTED TO - |
| CUSTOMER DRAWING | | SCALE 4:1 | SHEET 5 OF 5 · REV F |

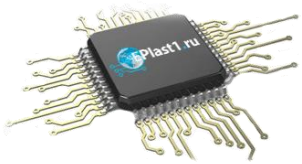
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.




**Как с нами связаться**

**Телефон:** 8 (812) 309 58 32 (многоканальный)
**Факс:** 8 (812) 320-02-42
**Электронная почта:** org@eplast1.ru
**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.