

PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION

**Part Number:** [0458020215](#)  
**Status:** **Active**  
**Description:** 1.20mm (.047") x 2.00mm (.079") Pitch HD Mezz™ Receptacle, 195 Circuits, 8.00mm (.315") Unmated Height, 15 Rows, Lead Free

**Documents:**

[3D Model](#) [Product Specification PS-45802-001 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

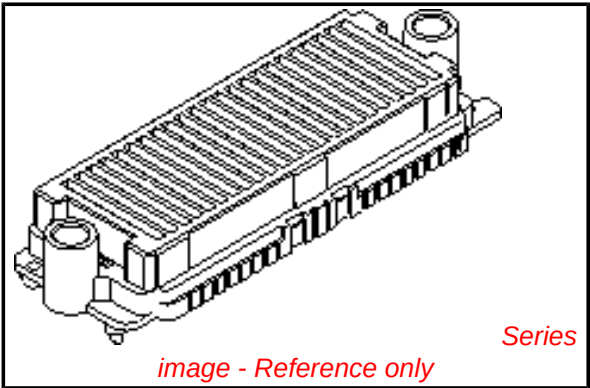
CSA LR19980  
UL E29179

**General**

Product Family PCB Receptacles  
Series [45802](#)  
Application Board-to-Board  
Comments 1.20mm (.047") Pitch Pin-to-Pin and 2.00mm (.079") Pitch Row-to-Row  
Product Name Mezzanine

**Physical**

Circuits (Loaded) 195  
Circuits (maximum) 195  
Color - Resin Black  
Durability (mating cycles max) 100  
Flammability 94V-0  
Glow-Wire Compliant No  
Guide to Mating Part No  
Keying to Mating Part None  
Lock to Mating Part Yes  
Material - Metal High Performance Alloy (HPA)  
Material - Plating Mating Gold  
Material - Plating Termination Tin  
Material - Resin High Temperature Thermoplastic  
Number of Rows 15  
Orientation Vertical  
PC Tail Length (in) 0.000 In  
PC Tail Length (mm) 0.00 mm  
PCB Locator Yes  
PCB Retention Yes  
PCB Thickness Recommended (in) 0.000 In  
PCB Thickness Recommended (mm) 0.00 mm  
Packaging Type Tray  
Pitch - Mating Interface (in) 0.079 In  
Pitch - Mating Interface (mm) 2.00 mm  
Pitch - Term. Interface (in) 0.079 In  
Pitch - Term. Interface (mm) 2.00 mm  
Plating min: Mating (µin) 30  
Plating min: Mating (µm) 0.75  
Plating min: Termination (µin) 100  
Plating min: Termination (µm) 2.5  
Polarized to Mating Part Yes  
Polarized to PCB Yes  
Robotic Placement Vacuum Pick-Up Tape  
Stackable No



**EU RoHS**

**ELV and RoHS  
Compliant**  
**REACH SVHC**  
Not Reviewed  
**Halogen-Free  
Status**  
**Not Reviewed**

**China RoHS**



**Need more information on product  
environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

**Search Parts in this Series**  
[45802Series](#)

**Mates With**  
[45830](#) HD Mezz™ Plug

|                                |                 |
|--------------------------------|-----------------|
| Surface Mount Compatible (SMC) | Yes             |
| Temperature Range - Operating  | -55°C to +105°C |
| Termination Interface: Style   | Surface Mount   |

**Electrical**

|                               |         |
|-------------------------------|---------|
| Current - Maximum per Contact | 2A      |
| Grounding to PCB              | No      |
| Voltage - Maximum             | 250V AC |

**Solder Process Data**

|                                                |                           |
|------------------------------------------------|---------------------------|
| Duration at Max. Process Temperature (seconds) | 20                        |
| Lead-free Process Capability                   | Reflow Capable (SMT only) |
| Max. Cycles at Max. Process Temperature        | 2                         |
| Process Temperature max. C                     | 260                       |

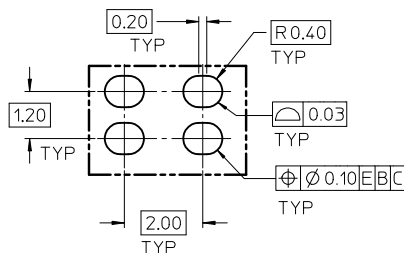
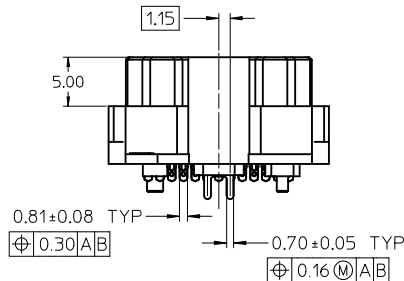
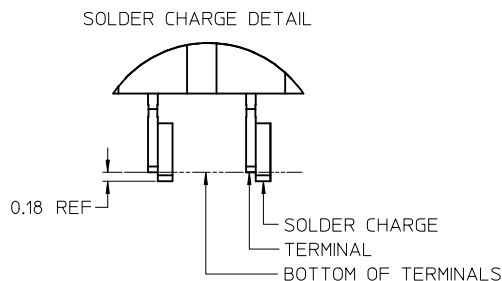
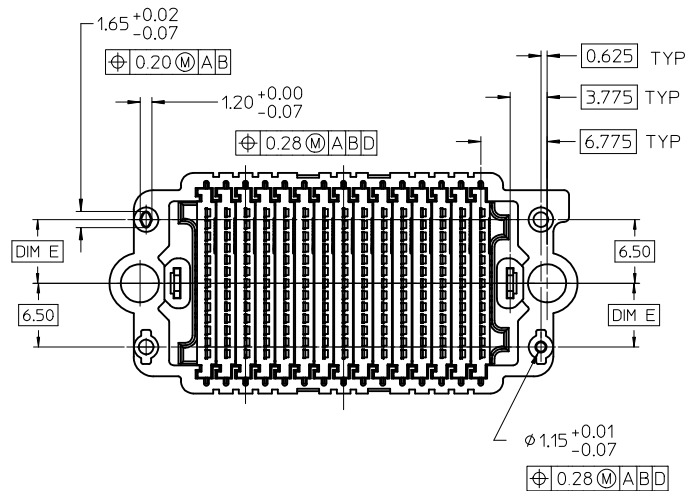
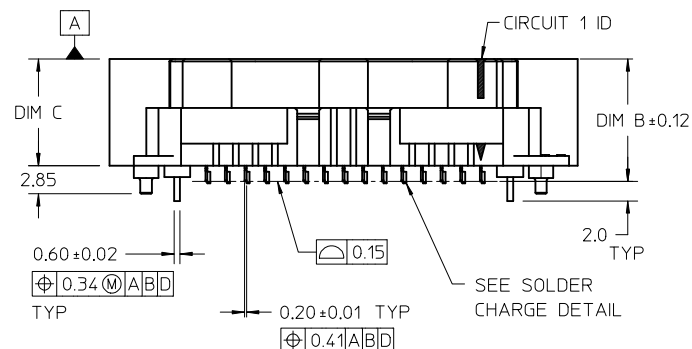
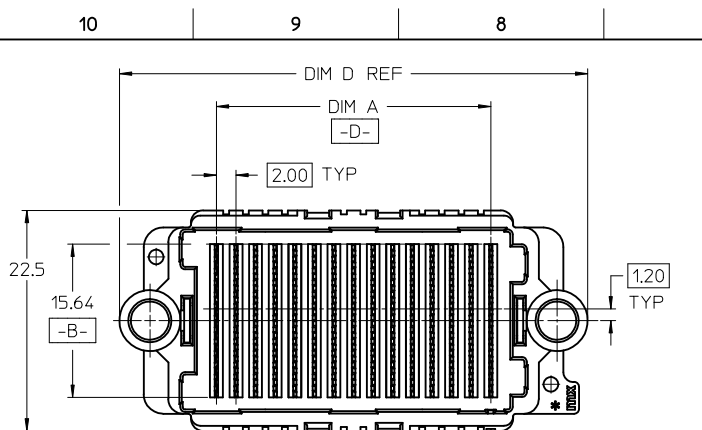
**Material Info**

**Reference - Drawing Numbers**

|                       |              |
|-----------------------|--------------|
| Product Specification | PS-45802-001 |
| Sales Drawing         | SD-45802-001 |

This document was generated on 04/14/2010

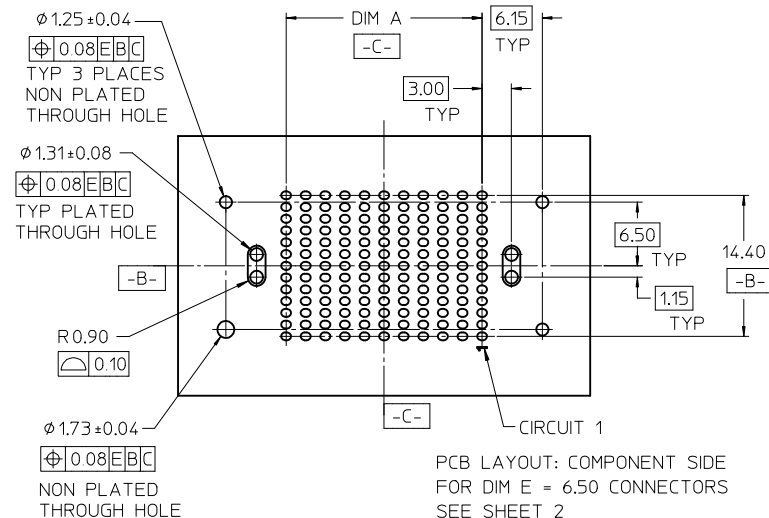
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SOLDER PAD DETAIL

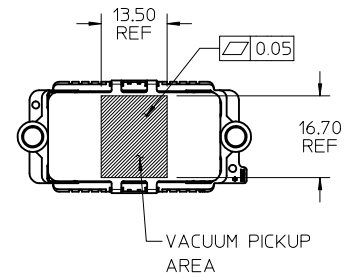
NOTES:

1. HOUSING MATERIAL: LCP, GLASS FILLED, UL 94V-0, BLACK  
CONTACT MATERIAL: HIGH PERFORMANCE ALLOY  
SOLDER NAIL MATL: STAINLESS STEEL  
SOLDER CHARGE MATL: SEE CHART
2. FINISH: SELECT GOLD 30 M.I. MIN IN CONTACT AREA  
SELECT TIN: 100 M.I. MIN IN PCB TAIL  
BOTH OVER NICKEL
3. PRODUCT SPECIFICATION: PS-45802-001
4. COSMETIC SPECIFICATION: PS-45499-002 CLASS B
5. PACKAGING SPECIFICATION: PK-45802-001
6. DATUM -D- IS THE CENTERLINE OF THE 2 END SLOTS. END  
SLOT CENTERLINES ARE ESTABLISHED USING 2 MEASUREMENTS  
FOR EACH SLOT TAKEN 7.20 EITHER SIDE OF DATUM -B-.
7. THERE ARE 13 CKTS PER ROW

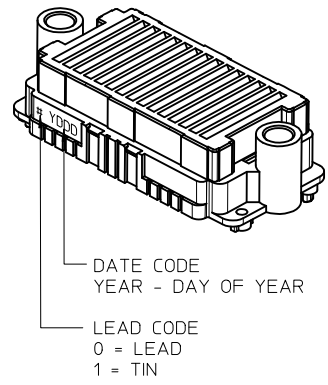


|                                                                                                                       |             |                 |                                                      |         |                            |                                                                                                          |                    |                                                     |                                                                                                                                            |                     |
|-----------------------------------------------------------------------------------------------------------------------|-------------|-----------------|------------------------------------------------------|---------|----------------------------|----------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| UPDATE<br>EC NO: UCP2010-2574<br>DRAWN:KSAMIEC 2010/05/05<br>CHKD:PELOZA 05/02/07<br>APPR: JCOMERC I 2010/05/07<br>D2 | DESCRIPTION | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED)                |         | DIMENSION STYLE<br>MM ONLY |                                                                                                          | SCALE<br>2:1       | DESIGN UNITS<br>METRIC                              |  THIRD ANGLE PROJECTION                               |                     |
|                                                                                                                       |             |                 |                                                      | mm      | INCH                       | DRAWN BY<br>PELOZA                                                                                       | DATE<br>05/02/04   | TITLE<br>HIGH DENSITY MEZZANINE RECEPTACLE ASSEMBLY |                                                                                                                                            |                     |
|                                                                                                                       |             |                 | 4 PLACES                                             | ± ---   | ± ---                      | CHECKED BY                                                                                               | DATE               |                                                     |                                                                                                                                            |                     |
|                                                                                                                       |             |                 | 3 PLACES                                             | ± 0.050 | ± ---                      | PELOZA                                                                                                   | 05/02/07           |                                                     |                                                                                                                                            |                     |
|                                                                                                                       |             |                 | 2 PLACES                                             | ± 0.15  | ± ---                      | APPROVED BY<br>JCOMERC I                                                                                 | DATE<br>2009/12/23 |                                                     |                                                                                                                                            |                     |
| REV                                                                                                                   |             |                 | 1 PLACE                                              | ± 0.3   | ± ---                      |  MOLEX INCORPORATED |                    |                                                     |                                                                                                                                            |                     |
|                                                                                                                       |             |                 | ANGULAR ±1/2°                                        |         |                            |                                                                                                          |                    | MATERIAL NO.                                        | DOCUMENT NO.<br>SD-45802-001                                                                                                               | SHEET NO.<br>1 OF 3 |
|                                                                                                                       |             |                 | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |         |                            |                                                                                                          |                    | SIZE<br>B                                           | SEE CHART<br>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                     |

| 10 |               |       | 9     |             | 8           |             | 7           |             | 6           |             | 5           |             | 4           |       | 3 |  |
|----|---------------|-------|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------|---|--|
| F  | STACK HEIGHT: |       |       | 8 mm        | 9 mm        | 10 mm       | 11 mm       | 12 mm       | 13 mm       | 14 mm       | 15 mm       |             | 17 mm       | 18 mm |   |  |
|    | DIM B:        |       |       | 10.51       | 11.51       | 12.51       | 13.51       | 14.51       | 15.51       | 16.51       | 17.51       | 19.51       | 20.51       |       |   |  |
|    | DIM C:        |       |       | 8.90        | 9.90        | 10.90       | 11.90       | 12.90       | 13.90       | 14.90       | 15.90       | 17.90       | 18.90       |       |   |  |
|    | ROWS          | DIM A | DIM D | MATERIAL No | MATERIAL No | MATERIAL No | MATERIAL No | MATERIAL No | MATERIAL No | MATERIAL No | MATERIAL No | MATERIAL No | MATERIAL No |       |   |  |
| E  | 07            | 12.00 | 31.89 | 45802-0007  | 45802-3007  | 45802-2007  | 45802-8007  | 45802-4007  | 45802-9007  | 45802-6007  | 45802-7007  | 45802-5007  | 45802-1007  |       |   |  |
|    | 09            | 16.00 | 35.89 | 45802-0009  | 45802-3009  | 45802-2009  | 45802-8009  | 45802-4009  | 45802-9009  | 45802-6009  | 45802-7009  | 45802-5009  | 45802-1009  |       |   |  |
|    | 11            | 20.00 | 39.89 | 45802-0011  | 45802-3011  | 45802-2011  | 45802-8011  | 45802-4011  | 45802-9011  | 45802-6011  | 45802-7011  | 45802-5011  | 45802-1011  |       |   |  |
|    | 13            | 24.00 | 43.89 | 45802-0013  | 45802-3013  | 45802-2013  | 45802-8013  | 45802-4013  | 45802-9013  | 45802-6013  | 45802-7013  | 45802-5013  | 45802-1013  |       |   |  |
|    | 15            | 28.00 | 47.89 | 45802-0015  | 45802-3015  | 45802-2015  | 45802-8015  | 45802-4015  | 45802-9015  | 45802-6015  | 45802-7015  | 45802-5015  | 45802-1015  |       |   |  |
|    | 17            | 32.00 | 51.89 | 45802-0017  | 45802-3017  | 45802-2017  | 45802-8017  | 45802-4017  | 45802-9017  | 45802-6017  | 45802-7017  | 45802-5017  | 45802-1017  |       |   |  |
|    | 19            | 36.00 | 55.89 | 45802-0019  | 45802-3019  | 45802-2019  | 45802-8019  | 45802-4019  | 45802-9019  | 45802-6019  | 45802-7019  | 45802-5019  | 45802-1019  |       |   |  |
|    | 21            | 40.00 | 59.89 | 45802-0021  | 45802-3021  | 45802-2021  | 45802-8021  | 45802-4021  | 45802-9021  | 45802-6021  | 45802-7021  | 45802-5021  | 45802-1021  |       |   |  |
|    | 23            | 44.00 | 63.89 | 45802-0123  | 45802-3023  | 45802-2023  | 45802-8023  | 45802-4023  | 45802-9023  | 45802-6023  | 45802-7023  | 45802-5023  | 45802-1123  |       |   |  |
|    | 25            | 48.00 | 67.89 | 45802-0025  | 45802-3025  | 45802-2025  | 45802-8025  | 45802-4025  | 45802-9025  | 45802-6025  | 45802-7025  | 45802-5025  | 45802-1025  |       |   |  |
|    | 27            | 52.00 | 71.89 | 45802-0027  | 45802-3027  | 45802-2027  | 45802-8027  | 45802-4027  | 45802-9027  | 45802-6027  | 45802-7027  | 45802-5027  | 45802-1027  |       |   |  |

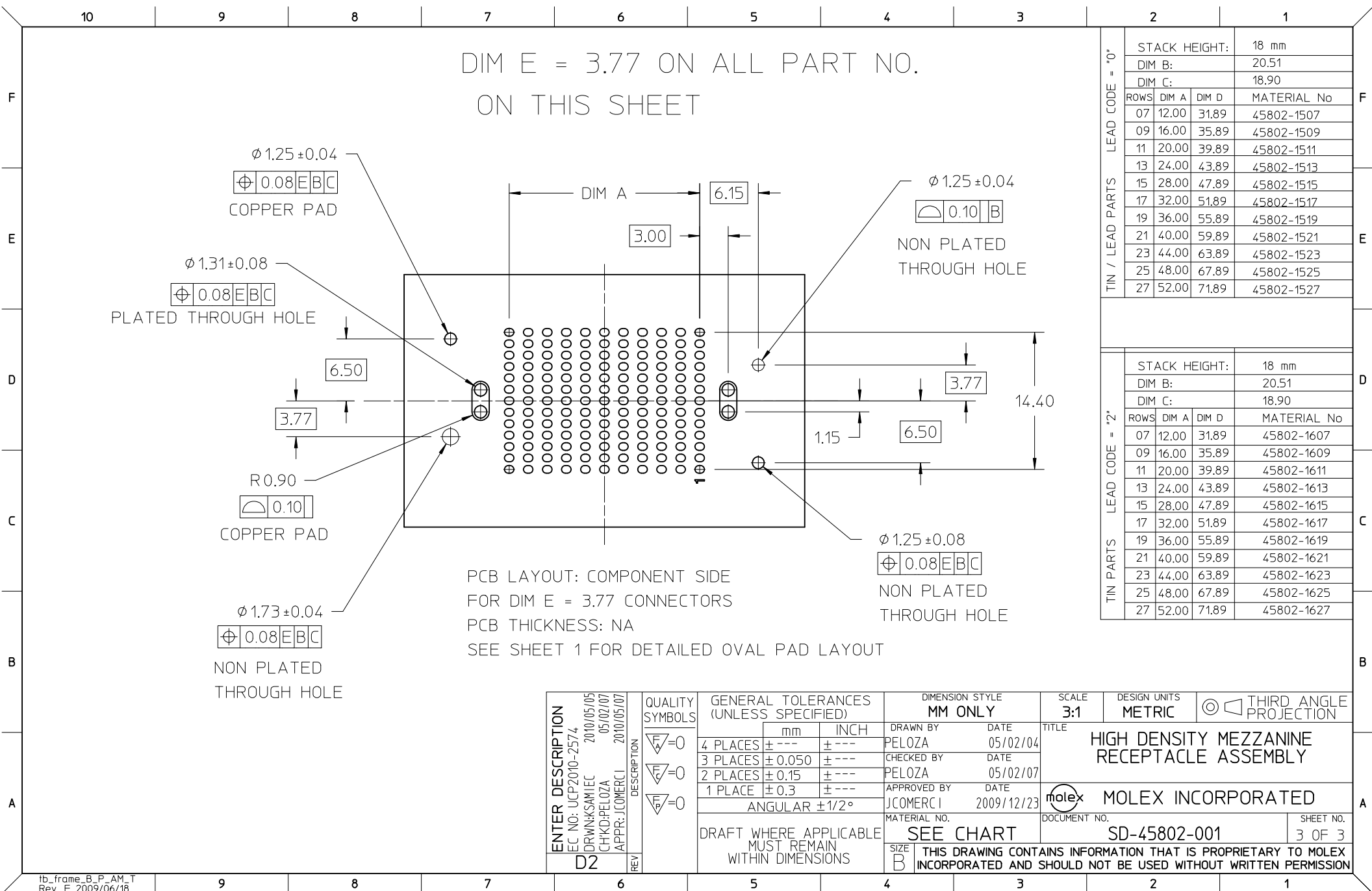


| D      | LEAD CODE = "2" |       |       |             |             |             |             |             |             |             |             |             |             |
|--------|-----------------|-------|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|        | STACK HEIGHT:   |       |       | 8 mm        | 9 mm        | 10 mm       | 11 mm       | 12 mm       | 13 mm       | 14 mm       | 15 mm       | 17 mm       | 18 mm       |
|        | DIM B:          |       |       | 10.51       | 11.51       | 12.51       | 13.51       | 14.51       | 15.51       | 16.51       | 17.51       | 19.51       | 20.51       |
| DIM C: |                 |       | 8.90  | 9.90        | 10.90       | 11.90       | 12.90       | 13.90       | 14.90       | 15.90       | 17.90       | 18.90       |             |
| C      | ROWS            | DIM A | DIM D | MATERIAL No | MATERIAL No | MATERIAL No | MATERIAL No | MATERIAL No | MATERIAL No | MATERIAL No | MATERIAL No | MATERIAL No | MATERIAL No |
|        | 07              | 12.00 | 31.89 | 45802-0207  | 45802-3207  | 45802-2207  | 45802-8207  | 45802-4207  | 45802-9207  | 45802-6207  | 45802-7207  | 45802-5207  | 45802-1207  |
|        | 09              | 16.00 | 35.89 | 45802-0209  | 45802-3209  | 45802-2209  | 45802-8209  | 45802-4209  | 45802-9209  | 45802-6209  | 45802-7209  | 45802-5209  | 45802-1209  |
|        | 11              | 20.00 | 39.89 | 45802-0311  | 45802-3211  | 45802-2211  | 45802-8211  | 45802-4211  | 45802-9211  | 45802-6211  | 45802-7211  | 45802-5211  | 45802-1211  |
|        | 13              | 24.00 | 43.89 | 45802-0213  | 45802-3213  | 45802-2213  | 45802-8213  | 45802-4213  | 45802-9213  | 45802-6213  | 45802-7213  | 45802-5213  | 45802-1213  |
|        | 15              | 28.00 | 47.89 | 45802-0215  | 45802-3215  | 45802-2215  | 45802-8215  | 45802-4215  | 45802-9215  | 45802-6215  | 45802-7215  | 45802-5215  | 45802-1215  |
|        | 17              | 32.00 | 51.89 | 45802-0217  | 45802-3217  | 45802-2217  | 45802-8217  | 45802-4217  | 45802-9217  | 45802-6217  | 45802-7217  | 45802-5217  | 45802-1217  |
|        | 19              | 36.00 | 55.89 | 45802-0219  | 45802-3219  | 45802-2219  | 45802-8219  | 45802-4219  | 45802-9219  | 45802-6219  | 45802-7219  | 45802-5219  | 45802-1219  |
|        | 21              | 40.00 | 59.89 | 45802-0221  | 45802-3221  | 45802-2221  | 45802-8221  | 45802-4221  | 45802-9221  | 45802-6221  | 45802-7221  | 45802-5221  | 45802-1221  |
| B      | 23              | 44.00 | 63.89 | 45802-0223  | 45802-3223  | 45802-2223  | 45802-8223  | 45802-4223  | 45802-9223  | 45802-6223  | 45802-7223  | 45802-5223  | 45802-1223  |
|        | 25              | 48.00 | 67.89 | 45802-0225  | 45802-3225  | 45802-2225  | 45802-8225  | 45802-4225  | 45802-9225  | 45802-6225  | 45802-7225  | 45802-5225  | 45802-1225  |
|        | 27              | 52.00 | 71.89 | 45802-0227  | 45802-3227  | 45802-2227  | 45802-8227  | 45802-4227  | 45802-9227  | 45802-6227  | 45802-7227  | 45802-5227  | 45802-1227  |



DIM E = 6.50 ON ALL PART NO.  
ON THIS SHEET

|                                                                                                                                       |                                       |         |                                                         |                        |                     |                                                                                                                               |                                                           |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------|---------------------------------------------------------|------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|--|--|--|
| SEE SHEET 1<br>EC NO: UCP2010-2574<br>DRWN:KSM/EC 2010/05/05<br>CHKD:PELOZA 05/02/07<br>APPR:JCOMERC 2010/05/07<br>DESCRIPTION<br>REV | GENERAL TOLERANCES (UNLESS SPECIFIED) |         | DIMENSION STYLE<br><b>MM ONLY</b>                       |                        | SCALE<br><b>1:1</b> | DESIGN UNITS<br><b>METRIC</b>                                                                                                 | THIRD ANGLE PROJECTION                                    |  |  |  |
|                                                                                                                                       |                                       | mm      | INCH                                                    | DRAWN BY<br>PELOZA     | DATE<br>05/02/04    | TITLE<br><b>HIGH DENSITY MEZZANINE RECEPTACLE ASSEMBLY</b>                                                                    |                                                           |  |  |  |
|                                                                                                                                       | 4 PLACES                              | ± ---   | ± ---                                                   | CHECKED BY<br>PELOZA   | DATE<br>05/02/07    |                                                                                                                               |                                                           |  |  |  |
|                                                                                                                                       | 3 PLACES                              | ± 0.050 | ± ---                                                   | APPROVED BY<br>JCOMERC |                     | DATE<br>2009/12/23                                                                                                            | MOLEX INCORPORATED<br>DOCUMENT NO.<br><b>SD-45802-001</b> |  |  |  |
|                                                                                                                                       | 2 PLACES                              | ± 0.15  | ± ---                                                   | MATERIAL NO.           |                     | SEE CHART                                                                                                                     |                                                           |  |  |  |
| 1 PLACE                                                                                                                               | ± 0.3                                 | ± ---   | DRAFT WHERE APPLICABLE<br>MUST REMAIN WITHIN DIMENSIONS |                        | SIZE<br><b>B</b>    | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                           |  |  |  |



DIM E = 3.77 ON ALL PART NO.  
ON THIS SHEET

Ø1.25±0.04  
0.08 EBC  
COPPER PAD

Ø1.31±0.08  
0.08 EBC  
PLATED THROUGH HOLE

R0.90  
0.10  
COPPER PAD

Ø1.73±0.04  
0.08 EBC  
NON PLATED  
THROUGH HOLE

Ø1.25±0.04  
0.10 B  
NON PLATED  
THROUGH HOLE

Ø1.25±0.08  
0.08 EBC  
NON PLATED  
THROUGH HOLE

PCB LAYOUT: COMPONENT SIDE  
FOR DIM E = 3.77 CONNECTORS  
PCB THICKNESS: NA  
SEE SHEET 1 FOR DETAILED OVAL PAD LAYOUT

|                  |               |       |       |             |
|------------------|---------------|-------|-------|-------------|
| LEAD CODE = "0"  | STACK HEIGHT: |       | 18 mm |             |
|                  | DIM B:        |       | 20.51 |             |
|                  | DIM C:        |       | 18.90 |             |
|                  | ROWS          | DIM A | DIM D | MATERIAL No |
| TIN / LEAD PARTS | 07            | 12.00 | 31.89 | 45802-1507  |
|                  | 09            | 16.00 | 35.89 | 45802-1509  |
|                  | 11            | 20.00 | 39.89 | 45802-1511  |
|                  | 13            | 24.00 | 43.89 | 45802-1513  |
|                  | 15            | 28.00 | 47.89 | 45802-1515  |
|                  | 17            | 32.00 | 51.89 | 45802-1517  |
|                  | 19            | 36.00 | 55.89 | 45802-1519  |
|                  | 21            | 40.00 | 59.89 | 45802-1521  |
|                  | 23            | 44.00 | 63.89 | 45802-1523  |
|                  | 25            | 48.00 | 67.89 | 45802-1525  |
|                  | 27            | 52.00 | 71.89 | 45802-1527  |

|           |                 |               |            |       |             |
|-----------|-----------------|---------------|------------|-------|-------------|
| TIN PARTS | LEAD CODE = "2" | STACK HEIGHT: |            | 18 mm |             |
|           |                 | DIM B:        |            | 20.51 |             |
|           |                 | DIM C:        |            | 18.90 |             |
|           |                 | ROWS          | DIM A      | DIM D | MATERIAL No |
|           |                 | 07            | 12.00      | 31.89 | 45802-1607  |
|           |                 | 09            | 16.00      | 35.89 | 45802-1609  |
|           |                 | 11            | 20.00      | 39.89 | 45802-1611  |
|           |                 | 13            | 24.00      | 43.89 | 45802-1613  |
|           |                 | 15            | 28.00      | 47.89 | 45802-1615  |
|           |                 | 17            | 32.00      | 51.89 | 45802-1617  |
|           |                 | 19            | 36.00      | 55.89 | 45802-1619  |
|           |                 | 21            | 40.00      | 59.89 | 45802-1621  |
| 23        | 44.00           | 63.89         | 45802-1623 |       |             |
| 25        | 48.00           | 67.89         | 45802-1625 |       |             |
| 27        | 52.00           | 71.89         | 45802-1627 |       |             |

|                                                                                                          |                                      |                                                                                                                                                                                                                                    |                                                                                                                          |                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ENTER DESCRIPTION<br>EC NO: UCP2010-2574<br>DRAWN BY: DRWKSAMIEC<br>CHKD:PELOZA<br>APPR: JCOMERC I<br>D2 | QUALITY SYMBOLS<br>F=0<br>F=0<br>F=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)<br>mm INCH<br>4 PLACES ± --- ± ---<br>3 PLACES ± 0.050 ± ---<br>2 PLACES ± 0.15 ± ---<br>1 PLACE ± 0.3 ± ---<br>ANGULAR ± 1/2°<br>DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS | DIMENSION STYLE<br>MM ONLY<br>DRAWN BY: PELOZA<br>CHECKED BY: PELOZA<br>APPROVED BY: JCOMERC I<br>MATERIAL NO.<br>SIZE B | SCALE<br>3:1<br>DESIGN UNITS<br>METRIC<br>THIRD ANGLE PROJECTION<br>HIGH DENSITY MEZZANINE<br>RECEPTACLE ASSEMBLY<br>MOLEX INCORPORATED<br>SD-45802-001<br>SHEET NO.<br>3 OF 3 |
|                                                                                                          |                                      |                                                                                                                                                                                                                                    |                                                                                                                          |                                                                                                                                                                                |
|                                                                                                          |                                      |                                                                                                                                                                                                                                    |                                                                                                                          |                                                                                                                                                                                |
|                                                                                                          |                                      |                                                                                                                                                                                                                                    |                                                                                                                          |                                                                                                                                                                                |