

Excellent Integrated System Limited

Stocking Distributor

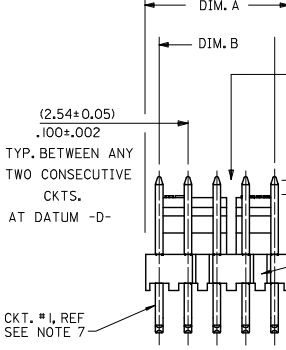
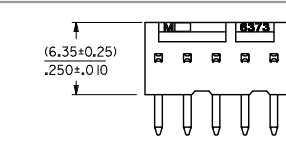
Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Molex Connector Corporation](#)
[0022053111](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

| | | | |
|----|-----------------|----------------|---------|
| 28 | (7.112 / 70.61) | (68.58 ± 0.25) | 4, .5 |
| 27 | 2.800 / 2.780 | 2.700 ± .010 | 24, .25 |
| 26 | (66.04 / 68.07) | (66.04 ± 0.25) | 4, .5 |
| 25 | 2.700 / 2.680 | 2.600 ± .010 | 24, .25 |
| 24 | (66.04 / 65.53) | (63.50 ± 0.25) | 4, .5 |
| 23 | 2.600 / 2.580 | 2.500 ± .010 | 20, .21 |
| 22 | (63.50 / 62.99) | (60.96 ± 0.25) | 4, .5 |
| 21 | 2.500 / 2.480 | 2.400 ± .010 | 20, .21 |
| 20 | (60.96 / 60.45) | (58.42 ± 0.25) | 4, .5 |
| 19 | 2.400 / 2.380 | 2.300 ± .010 | 20, .21 |
| 18 | (58.42 / 57.96) | (55.88 ± 0.23) | 4, .5 |
| 17 | 2.300 / 2.282 | 2.200 ± .009 | 20, .21 |
| 16 | (55.88 / 55.42) | (53.34 ± 0.23) | 4, .5 |
| 15 | 2.200 / 2.182 | 2.100 ± .009 | 16, .17 |
| 14 | (53.34 / 52.88) | (50.80 ± 0.23) | 4, .5 |
| 13 | 2.100 / 2.082 | 2.000 ± .009 | 16, .17 |
| 12 | (50.80 / 50.34) | (48.26 ± 0.23) | 4, .5 |
| 11 | 2.000 / 1.982 | 1.900 ± .009 | 16, .17 |
| 10 | (48.26 / 47.80) | (45.72 ± 0.23) | 4, .5 |
| 9 | 1.900 / 1.882 | 1.800 ± .009 | 16, .17 |
| 8 | (45.72 / 45.31) | (43.18 ± 0.20) | 4, .5 |
| 7 | 1.800 / 1.784 | 1.700 ± .008 | 12, .13 |
| 6 | (43.18 / 42.77) | (40.64 ± 0.20) | 4, .5 |
| 5 | 1.700 / 1.684 | 1.600 ± .008 | 12, .13 |
| 4 | (40.64 / 40.23) | (38.10 ± 0.20) | 4, .5 |
| 3 | 1.600 / 1.584 | 1.500 ± .008 | 12, .13 |
| 2 | (38.10 / 37.69) | (35.56 ± 0.20) | 4, .5 |
| 1 | 1.500 / 1.484 | 1.400 ± .008 | 12, .13 |



- NOTES:
- MATERIAL: NYLON, UL94V-0, COLOR: WHITE
 - FINISH:
 - (154) = OVERALL TIN: (0.00254)/.000100 MIN, OVERALL NICKEL UNDERPLATE: (0.00127)/.000050 MIN.
 - (197) = OVERALL REFLOWED MATTE TIN: 0.00152/.000060 MIN OVER 0.00127/.000050 MIN NICKEL.
 - (222) = OVERALL MATTE TIN: (0.00254)/.000100 MIN, OVERALL NICKEL UNDERPLATE: (0.00127)/.000050 MIN.
 - (208) = SELECT GOLD: 0.00038/.000015 MIN, SELECT MATTE TIN: 0.00254/.000100, BOTH OVER 0.00127/.000050 MIN NICKEL.
 - (228) = SELECT GOLD: 0.00076/.000030 MIN, SELECT MATTE TIN: 0.00254/.000100, BOTH OVER 0.00127/.000050 MIN NICKEL.
 - (241) = SELECT GOLD: 0.00051/.000020 MIN, SELECT MATTE TIN: 0.00254/.000100, BOTH OVER 0.00127/.000050 MIN NICKEL.
 - PARTS CONFORM TO PRODUCT SPECIFICATION PS-10-07.
 - PACKAGING INFORMATION: SEE LEGEND.
 - PARTS ARE STACKABLE END TO END ON (2.54)/.100 CENTERS.
 - PIN PUSH OUT FORCE: 2 LBS. MIN.
 - CIRCUIT ONE DESIGNATION IS USED TO DEFINE VOID LOCATION. CIRCUIT ONE MAY OR MAY NOT LINE UP WITH CIRCUIT ONE ON THE MATING HOUSING.
 - THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

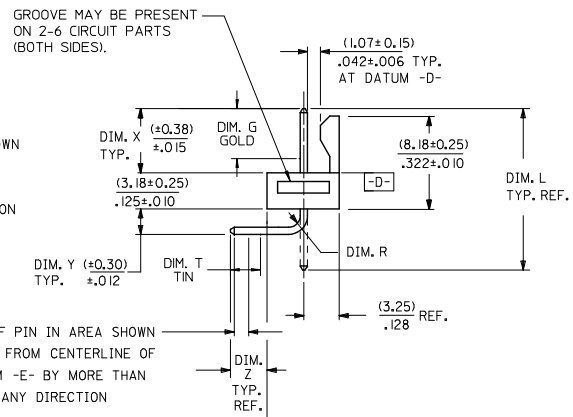
SLOTS LOCATED BETWEEN CIRCUITS (SEE CHART)

(1.3) CENTERLINE OF PIN IN AREA SHOWN NOT TO VARY FROM CENTERLINE OF PIN AT DATUM -D- BY MORE THAN (0.20)/.008 IN ANY DIRECTION

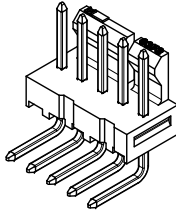
(2.54±0.05) TYP. BETWEEN ANY TWO CONSECUTIVE CKTS. AT DATUM -D-

RECESSED GATE MAY BE PRESENT ON 2-25 CKT PARTS. LOCATION VARIES.

CKT. #1, REF SEE NOTE 7



| SECONDARY OPERATIONS | |
|----------------------|-----------------------|
| CODE | PACKAGE |
| BLANK | BULK PK-7478-001 |
| T | TUBE PER PK-44743-001 |

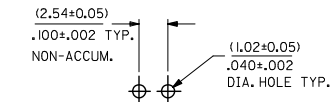


A-7478-N***

NO. OF CKTS.

VERSION LETTER CHANGES WHEN PIN NO. OR PRESS DIM. CHANGES

PLATING SEE NOTE 2



RECOMMENDED P.C. BOARD HOLE LAYOUT

| | | | |
|--------------|--------|--------|------------|
| NO. OF CKTS. | DIM. A | DIM. B | SLOTS LOC. |
|--------------|--------|--------|------------|

| ADD 222 TO NOTE 2 | REV | DESCRIPTION | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE | | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION | |
|---|-----|-------------|-----------------|--|-------|-----------------|------------|--------------|--------------|------------------------|--|
| | | | | mm | INCH | MM/IN | DATE | | | | |
| ADD 222 TO NOTE 2 | 001 | 001 | 001 | 4 PLACES ±--- | ±--- | MM/IN | 1987/07/30 | 4:1 | INCH | THIRD ANGLE PROJECTION | |
| REC NO: UCP2014-4754 | 002 | 002 | 002 | 3 PLACES ±--- | ±.010 | MM/IN | 1987/07/30 | 4:1 | INCH | THIRD ANGLE PROJECTION | |
| DRWNG: JDFX | 003 | 003 | 003 | 2 PLACES ±0.25 | ±.015 | MM/IN | 1987/07/30 | 4:1 | INCH | THIRD ANGLE PROJECTION | |
| CHKD: KIPER | 004 | 004 | 004 | 1 PLACE ±0.38 | ±--- | MM/IN | 1987/07/30 | 4:1 | INCH | THIRD ANGLE PROJECTION | |
| APPR: SMITH | 005 | 005 | 005 | 0 PLACE ±--- | ±--- | MM/IN | 1987/07/30 | 4:1 | INCH | THIRD ANGLE PROJECTION | |
| | | | | ANGULAR ±1/2° | | MATERIAL NO. | | DOCUMENT NO. | | SHEET NO. | |
| | | | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | SEE CHART | | SDA-7478 | | 1 OF 7 | |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | | | | | | |

13 12 11 10 9 8 7 6 5 4 3 2 1

| J | ENG. NO. | PIN NO. | DIM. L | DIM. X | DIM. Z | DIM. Y | DIM. W | DIM. R | DIM. G | DIM. T |
|---|---------------|------------------------------|-----------------|----------------|----------------|----------------|--------|----------------|----------------|----------------|
| J | A-7478-NA222 | 2766-41(222) OR 4266-0667 | (18.80) .740 | (6.71) .264 | (3.58) .141 | (3.05) .120 | 90° | (1.17) .046 | N/A | OVERALL |
| I | A-7478-NA241 | 4266-0666 | (18.80) .740 | (6.71) .264 | (3.58) .141 | (3.05) .120 | 90° | (1.17) .046 | (4.57) .180 | (3.43) .135 |
| I | A-7478-NA241T | 4266-0666 | (18.80) .740 | (6.71) .264 | (3.58) .141 | (3.05) .120 | 90° | (1.17) .046 | (4.57) .180 | (3.43) .135 |
| I | A-7478-NA197T | 4266-0662 | (18.80) .740 | (6.71) .264 | (3.58) .141 | (3.05) .120 | 90° | (1.17) .046 | N/A | OVERALL |
| H | | | | | | | | | | |
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| C | | | | | | | | | | |

| SEE SHEET 1 EC NO: UCP2014-4754 DRAWN BY: 2014/05/13 CHKD BY: 2014/05/13 APPR: SMITH 2014/05/16 DESCRIPTION: REV: | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) <table border="1"> <tr> <th></th> <th>MM</th> <th>INCH</th> </tr> <tr> <td>4 PLACES</td> <td>± .10</td> <td>± .004</td> </tr> <tr> <td>3 PLACES</td> <td>± .15</td> <td>± .005</td> </tr> <tr> <td>2 PLACES</td> <td>± 0.25</td> <td>± .010</td> </tr> <tr> <td>1 PLACE</td> <td>± 0.38</td> <td>± .015</td> </tr> <tr> <td>0 PLACE</td> <td>± .50</td> <td>± .020</td> </tr> </table> | | MM | INCH | 4 PLACES | ± .10 | ± .004 | 3 PLACES | ± .15 | ± .005 | 2 PLACES | ± 0.25 | ± .010 | 1 PLACE | ± 0.38 | ± .015 | 0 PLACE | ± .50 | ± .020 | DIMENSION STYLE MM/IN | SCALE --- | DESIGN UNITS INCH | THIRD ANGLE PROJECTION |
|--|----------------------------|--|------------------|--|---------------------------------|----------------------------|------------|--------|----------|------------|-------------|----------|--------|------------|---|--------|--------|---------|-------|--------|---------------------------------|---------------------|-----------------------------|-------------------------------|
| | | MM | INCH | | | | | | | | | | | | | | | | | | | | | |
| | 4 PLACES | ± .10 | ± .004 | | | | | | | | | | | | | | | | | | | | | |
| | 3 PLACES | ± .15 | ± .005 | | | | | | | | | | | | | | | | | | | | | |
| 2 PLACES | ± 0.25 | ± .010 | | | | | | | | | | | | | | | | | | | | | | |
| 1 PLACE | ± 0.38 | ± .015 | | | | | | | | | | | | | | | | | | | | | | |
| 0 PLACE | ± .50 | ± .020 | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <tr> <td>DRAWN BY</td> <td>DATE</td> </tr> <tr> <td>GUZIC</td> <td>1987/07/30</td> </tr> <tr> <td>CHECKED BY</td> <td>DATE</td> </tr> <tr> <td>PATEL</td> <td>1987/07/30</td> </tr> <tr> <td>APPROVED BY</td> <td>DATE</td> </tr> <tr> <td>SMITH</td> <td>2014/05/16</td> </tr> </table> | DRAWN BY | DATE | GUZIC | 1987/07/30 | CHECKED BY | DATE | PATEL | 1987/07/30 | APPROVED BY | DATE | SMITH | 2014/05/16 | TITLE FRICTION LOCK HEADER ASY .100 CL BENT SQ PINS 7478 SERIES DWG | | | | | | | | | |
| DRAWN BY | DATE | | | | | | | | | | | | | | | | | | | | | | | |
| GUZIC | 1987/07/30 | | | | | | | | | | | | | | | | | | | | | | | |
| CHECKED BY | DATE | | | | | | | | | | | | | | | | | | | | | | | |
| PATEL | 1987/07/30 | | | | | | | | | | | | | | | | | | | | | | | |
| APPROVED BY | DATE | | | | | | | | | | | | | | | | | | | | | | | |
| SMITH | 2014/05/16 | | | | | | | | | | | | | | | | | | | | | | | |
| | | ANGULAR ±1/2° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | SEE CHART | MATERIAL NO. SDA-7478 | DOCUMENT NO. SDA-7478 | SHEET NO. 2 OF 7 | | | | | | | | | | | | | | | | | | |
| | | | SIZE C | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | | | | | | | | | | | | | | | |

12 11 10 9 8 7 6 5 4 3 2 1

| A-7478-NA222 | | A-7478-NA241 | | A-7478-NA241T | | A-7478-NA197T | | | | | |
|--------------|---------------|--------------|---------------|---------------|----------------|---------------|---------------|----------|----------|----------|----------|
| PART NO. | ENG. NO. | PART NO. | ENG. NO. | PART NO. | ENG. NO. | PART NO. | ENG. NO. | PART NO. | ENG. NO. | PART NO. | ENG. NO. |
| 22-05-302I | A-7478-2A222 | 22-12-2024 | A-7478-2A241 | 50-29-1710 | A-7478-2A241T | 50-34-8500 | A-7478-2A197T | | | | |
| 22-05-303I | A-7478-3A222 | 22-12-2034 | A-7478-3A241 | 50-29-1711 | A-7478-3A241T | 50-34-8501 | A-7478-3A197T | | | | |
| 22-05-304I | A-7478-4A222 | 22-12-2044 | A-7478-4A241 | 50-29-1705 | A-7478-4A241T | | | | | | |
| 22-05-305I | A-7478-5A222 | 22-12-2054 | A-7478-5A241 | 50-29-1712 | A-7478-5A241T | 50-34-8502 | A-7478-4A197T | | | | |
| 22-05-306I | A-7478-6A222 | 22-12-2064 | A-7478-6A241 | 50-29-1713 | A-7478-6A241T | | | | | | |
| 22-05-307I | A-7478-7A222 | 22-12-2074 | A-7478-7A241 | 50-29-1714 | A-7478-7A241T | | | | | | |
| 22-05-308I | A-7478-8A222 | 22-12-2084 | A-7478-8A241 | 50-29-1715 | A-7478-8A241T | | | | | | |
| 22-05-309I | A-7478-9A222 | 22-12-2094 | A-7478-9A241 | 50-29-1716 | A-7478-9A241T | | | | | | |
| 22-05-310I | A-7478-10A222 | 22-12-2104 | A-7478-10A241 | 50-29-1717 | A-7478-10A241T | | | | | | |
| 22-05-311I | A-7478-11A222 | 22-12-2114 | A-7478-11A241 | 50-29-1718 | A-7478-11A241T | | | | | | |
| 22-05-312I | A-7478-12A222 | 22-12-2124 | A-7478-12A241 | 50-29-1719 | A-7478-12A241T | | | | | | |
| 22-05-313I | A-7478-13A222 | 22-12-2134 | A-7478-13A241 | 50-29-1720 | A-7478-13A241T | | | | | | |
| 22-05-314I | A-7478-14A222 | 22-12-2144 | A-7478-14A241 | 50-29-1721 | A-7478-14A241T | | | | | | |
| 22-05-315I | A-7478-15A222 | 22-12-2154 | A-7478-15A241 | 50-29-1722 | A-7478-15A241T | | | | | | |
| 22-05-316I | A-7478-16A222 | 22-12-2164 | A-7478-16A241 | 50-29-1723 | A-7478-16A241T | | | | | | |
| 22-05-317I | A-7478-17A222 | 22-12-2174 | A-7478-17A241 | 50-29-1724 | A-7478-17A241T | | | | | | |
| 22-05-318I | A-7478-18A222 | 22-12-2184 | A-7478-18A241 | 50-29-1725 | A-7478-18A241T | | | | | | |
| 22-05-319I | A-7478-19A222 | 22-12-2194 | A-7478-19A241 | 50-29-1726 | A-7478-19A241T | | | | | | |
| 22-05-320I | A-7478-20A222 | 22-12-2204 | A-7478-20A241 | 50-29-1727 | A-7478-20A241T | | | | | | |
| 22-05-321I | A-7478-21A222 | 22-12-2214 | A-7478-21A241 | 50-29-1728 | A-7478-21A241T | | | | | | |
| 22-05-322I | A-7478-22A222 | 22-12-2224 | A-7478-22A241 | 50-29-1729 | A-7478-22A241T | | | | | | |
| 22-05-323I | A-7478-23A222 | 22-12-2234 | A-7478-23A241 | 50-29-1730 | A-7478-23A241T | | | | | | |
| 22-05-324I | A-7478-24A222 | 22-12-2244 | A-7478-24A241 | 50-29-1731 | A-7478-24A241T | | | | | | |
| 22-05-325I | A-7478-25A222 | 22-12-2254 | A-7478-25A241 | 50-29-1732 | A-7478-25A241T | | | | | | |
| 22-05-326I | A-7478-26A222 | 22-12-2264 | A-7478-26A241 | 50-29-1733 | A-7478-26A241T | | | | | | |
| 22-05-327I | A-7478-27A222 | 22-12-2274 | A-7478-27A241 | 50-29-1734 | A-7478-27A241T | | | | | | |
| 22-05-328I | A-7478-28A222 | 22-12-2284 | A-7478-28A241 | 50-29-1735 | A-7478-28A241T | | | | | | |

| | | | | | | | | |
|---|---------------------|---|--|--|--------------------------|---------------------|----------------------|------------------------|
| SEE SHEET 1 EC NO: UCP2014-4754 2014/05/13 DRAWN BY: CHKORAKIPER 2014/05/13 CHECKED BY: APPROV: SMITH 2014/05/16 DESCRIPTION: | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH | | DIMENSION STYLE MM/IN | | SCALE --- | DESIGN UNITS INCH | THIRD ANGLE PROJECTION |
| | | 4 PLACES ± --- ± --- 3 PLACES ± --- ± .010 2 PLACES ± 0.25 ± .015 1 PLACE ± 0.38 ± --- 0 PLACE ± --- ± --- | DRAWN BY: GULIC DATE: 1987/07/30 CHECKED BY: PATEL DATE: 1987/07/30 APPROVED BY: F SMITH DATE: 2014/05/16 | TITLE FRICTION LOCK HEADER ASY .100 CL BENT SQ PINS 7478 SERIES DWG | | | | |
| | | ANGULAR ±1/2° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | MATERIAL NO. SEE CHART | DOCUMENT NO. SDA-7478 | SHEET NO. 3 OF 7 | | |
| | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | |

13 12 11 10 9 8 7 6 5 4 3 2 1

| J | ENG. NO. | PIN NO. | DIM. L | DIM. X | DIM. Z | DIM. Y | DIM. W | DIM. R | DIM. G | DIM. T |
|---|---------------|------------|-----------------|----------------|-------------------------|---------------------|--------|----------------|----------------|----------------|
| | A-7478-NA228 | 42663-0664 | (18.80) .740 | (6.71) .264 | (3.58) .141 | (3.05) .120 | 90° | (1.17) .046 | (4.57) .180 | (3.43) .135 |
| | A-7478-NE197 | 42663-0742 | (19.81) .780 | (7.75) .305 | (3.56) .140 | (3.05) .120 | 90° | (1.17) .046 | N/A | OVERALL |
| I | A-7478-NF197 | 42663-0622 | (18.29) .720 | (6.73) .265 | (2.92±.25) .115±.010 | (3.18) .125 REF. | 90° | (1.17) .046 | N/A | OVERALL |
| | A-7478-NH197 | 42663-0482 | (16.51) .650 | (7.49) .295 | (2.69) .106 | (0.64) .025 | 90° | (.64) .025 | N/A | OVERALL |
| | A-7478-NM208 | 42663-0564 | (17.53) .690 | (7.57) .298 | (3.63) .143 | (0.64) .025 | 90° | (.64) .025 | (5.08) .200 | (3.43) .135 |
| H | A-7478-NA154 | 42663-0668 | (18.80) .740 | (6.71) .264 | (3.58) .141 | (3.05) .120 | 90° | (1.17) .046 | N/A | OVERALL |
| | A-7478-ANE197 | 42663-0742 | (19.81) .780 | (7.75) .305 | (3.56) .140 | (3.05) .120 | 90° | (1.17) .046 | N/A | OVERALL |
| | A-7478-NM197 | 42663-0562 | (17.53) .690 | (7.57) .298 | (3.63) .143 | (0.64) .025 | 90° | (.64) .025 | N/A | OVERALL |
| G | A-7478-NH228 | 42663-0483 | (16.51) .650 | (7.49) .295 | (2.69) .106 | (.64) .025 | 90° | (.64) .025 | (5.08) .200 | (5.08) .200 |
| | A-7478-NN197 | 42663-0662 | (18.80) .740 | (6.71) .264 | (3.58) .141 | (3.05) .120 | 90° | (1.17) .046 | N/A | OVERALL |
| F | A-7478-NP197 | 42663-1142 | (24.89) .980 | (6.60) .260 | (9.73) .383 | (3.05) .120 | 90° | (1.17) .046 | N/A | OVERALL |
| E | | | | | | | | | | |
| D | | | | | | | | | | |
| C | | | | | | | | | | |

| | | | | | | | | | | |
|---|--|--------------------------------------|--------------------|---------------------------------------|--|------------------|--|--------------|--------------|------------------------|
| A | SEE SHEET 1 EC NO: UCP2014-4754 DRAWN BY: 2014/05/13 CHKD BY: 2014/05/13 APPROVED BY: 2014/05/16 | QUALITY SYMBOLS ▽=0 ▽=0 ▽=0 | DESCRIPTION REV | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE | | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION |
| | | | | mm | INCH | MM/IN | --- | INCH | ☉ | |
| | | | | 4 PLACES ± --- ± --- | DRAWN BY: GUZIC | DATE: 1987/07/30 | TITLE: FRICTION LOCK HEADER ASY .100 CL BENT SQ PINS 7478 SERIES DWG | | | |
| | | | | 3 PLACES ± --- ± .010 | CHECKED BY: PATEL | DATE: 1987/07/30 | molex SDA-7478 | | | |
| | | | | 2 PLACES ± 0.25 ± .015 | APPROVED BY: F SMITH | DATE: 2014/05/16 | | | | |
| | | | | 1 PLACE ± 0.38 ± --- | ANGULAR ± 1/2° | | MATERIAL NO. | DOCUMENT NO. | SHEET NO. | |
| | | | | 0 PLACE ± --- ± --- | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | SEE CHART | SDA-7478 | 4 OF 7 | |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | | | | | |

1b_frame_C_P_AM_T Rev. G 2012/01/11 12 11 10 9 8 7 6 5 4 3 2 1

| | A-7478-NA228 | | A-7478-NE197 | | A-7478-NF197 | | A-7478-NH197 | | A-7478-NM208 | | A-7478-NA154 | |
|---|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|--------------|
| J | PART NO. | ENG. NO. | PART NO. | ENG. NO. | PART NO. | ENG. NO. | PART NO. | ENG. NO. | PART NO. | ENG. NO. | PART NO. | ENG. NO. |
| | 22-12-2026 | A-7478-2A228 | 22-05-8025 | A-7478-2E197 | | A-7478-2F197 | S 22-05-8020 | A-7478-2H197 | S | A-7478-2M208 | 50-30-4424 | A-7478-2A154 |
| | 22-12-2036 | A-7478-3A228 | | A-7478-3E197 | | A-7478-3F197 | S 22-05-8030 | A-7478-3H197 | S | A-7478-3M208 | 50-30-4434 | A-7478-3A154 |
| | 22-12-2046 | A-7478-4A228 | | A-7478-4E197 | | A-7478-4F197 | S 22-05-8040 | A-7478-4H197 | S | A-7478-4M208 | 50-30-4444 | A-7478-4A154 |
| | 22-12-2056 | A-7478-5A228 | 22-05-8055 | A-7478-5E197 | 22-05-9058 | A-7478-5F197 | S 22-05-8050 | A-7478-5H197 | S | A-7478-5M208 | | |
| I | 22-12-2066 | A-7478-6A228 | | A-7478-6E197 | | A-7478-6F197 | S 22-05-8060 | A-7478-6H197 | S | A-7478-6M208 | | |
| | 22-12-2076 | A-7478-7A228 | | A-7478-7E197 | | A-7478-7F197 | S 22-05-8070 | A-7478-7H197 | S | A-7478-7M208 | | |
| | 22-12-2086 | A-7478-8A228 | | A-7478-8E197 | | A-7478-8F197 | S 22-05-8080 | A-7478-8H197 | S | A-7478-8M208 | | |
| | 22-12-2096 | A-7478-9A228 | | A-7478-9E197 | | A-7478-9F197 | S 22-05-8090 | A-7478-9H197 | S | A-7478-9M208 | | |
| | 22-12-2106 | A-7478-10A228 | | A-7478-10E197 | | A-7478-10F197 | S 22-05-8100 | A-7478-10H197 | S | A-7478-10M208 | | |
| H | 22-12-2116 | A-7478-11A228 | | A-7478-11E197 | | A-7478-11F197 | S 22-05-8110 | A-7478-11H197 | S | A-7478-11M208 | | |
| | 22-12-2126 | A-7478-12A228 | | A-7478-12E197 | | A-7478-12F197 | S 22-05-8120 | A-7478-12H197 | S 22-12-2123 | A-7478-12M208 | | |
| | 22-12-2136 | A-7478-13A228 | | A-7478-13E197 | | A-7478-13F197 | S 22-05-8130 | A-7478-13H197 | S | A-7478-13M208 | | |
| | 22-12-2146 | A-7478-14A228 | | A-7478-14E197 | | A-7478-14F197 | S 22-05-8140 | A-7478-14H197 | S | A-7478-14M208 | | |
| | 22-12-2156 | A-7478-15A228 | | A-7478-15E197 | | A-7478-15F197 | S 22-05-8150 | A-7478-15H197 | S | A-7478-15M208 | | |
| G | 22-12-2166 | A-7478-16A228 | | A-7478-16E197 | | A-7478-16F197 | S 22-05-8160 | A-7478-16H197 | S | A-7478-16M208 | | |
| | 22-12-2176 | A-7478-17A228 | | A-7478-17E197 | | A-7478-17F197 | S 22-05-8170 | A-7478-17H197 | S | A-7478-17M208 | | |
| | 22-12-2186 | A-7478-18A228 | | A-7478-18E197 | | A-7478-18F197 | S 22-05-8180 | A-7478-18H197 | S | A-7478-18M208 | | |
| | 22-12-2196 | A-7478-19A228 | | A-7478-19E197 | | A-7478-19F197 | S 22-05-8190 | A-7478-19H197 | S | A-7478-19M208 | | |
| | 22-12-2206 | A-7478-20A228 | | A-7478-20E197 | | A-7478-20F197 | S 22-05-8200 | A-7478-20H197 | S | A-7478-20M208 | | |
| | 22-12-2216 | A-7478-21A228 | | A-7478-21E197 | | A-7478-21F197 | S 22-05-8210 | A-7478-21H197 | S | A-7478-21M208 | | |
| F | 22-12-2226 | A-7478-22A228 | | A-7478-22E197 | | A-7478-22F197 | S 22-05-8220 | A-7478-22H197 | S | A-7478-22M208 | | |
| | 22-12-2236 | A-7478-23A228 | | A-7478-23E197 | | A-7478-23F197 | S 22-05-8230 | A-7478-23H197 | S | A-7478-23M208 | | |
| | 22-12-2246 | A-7478-24A228 | | A-7478-24E197 | | A-7478-24F197 | S 22-05-8240 | A-7478-24H197 | S | A-7478-24M208 | | |
| | 22-12-2256 | A-7478-25A228 | | A-7478-25E197 | | A-7478-25F197 | S 22-05-8250 | A-7478-25H197 | S | A-7478-25M208 | | |
| | 22-12-2266 | A-7478-26A228 | | A-7478-26E197 | | A-7478-26F197 | S 22-05-8260 | A-7478-26H197 | S | A-7478-26M208 | | |
| E | 22-12-2276 | A-7478-27A228 | | A-7478-27E197 | | A-7478-27F197 | S 22-05-8270 | A-7478-27H197 | S | A-7478-27M208 | | |
| | 22-12-2286 | A-7478-28A228 | | A-7478-28E197 | | A-7478-28F197 | S 22-05-8280 | A-7478-28H197 | S | A-7478-28M208 | | |

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|--|--------------------------------------|---------------------------------------|--|--|--|--|--------------|------------------------|--|--|
| SEE SHEET 1 REC NO: UCP2014-4754 DRAWN BY: DRW:JPOX 2014/05/13 CHKD BY: CHK:KJIPER 2014/05/13 APPROVED BY: APP:CSMITH 2014/05/16 | QUALITY SYMBOLS ∇=0 ∇=0 ∇=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE | | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION | | |
| | | | | MM/IN | | --- | INCH | | | |
| | | 4 PLACES ± --- ± --- | | DRAWN BY DATE | | TITLE FRICTION LOCK HEADER ASY .100 CL BENT SQ PINS 7478 SERIES DWG molex | | | | |
| | | 3 PLACES ± --- ± .010 | | GUZIC 1987/07/30 | | | | | | |
| 2 PLACES ± 0.25 ± .015 | | CHECKED BY DATE | | MATERIAL NO. DOCUMENT NO. SHEET NO. SEE CHART SDA-7478 5 OF 7 | | | | | | |
| 1 PLACE ± 0.38 ± --- | | PATEL 1987/07/30 | | | | | | | | |
| 0 PLACE ± --- ± --- | | APPROVED BY DATE | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | |
| ANGULAR ±1/2° | | FSMITH 2014/05/16 | | | | | | | | |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | SIZE C | | | | | | | | |

13 12 11 10 9 8 7 6 5 4 3 2 1

| A-7478-ANE197 | | A-7478-NM197 | | | | | |
|---------------|----------|--------------|----------------|------------|---------------|----------|----------|
| PART NO. | ENG. NO. | PART NO. | ENG. NO. | PART NO. | ENG. NO. | PART NO. | ENG. NO. |
| | | | A-7478-A2E197 | 22-12-4028 | A-7478-2M197 | | |
| | | | A-7478-A3E197 | 22-12-4038 | A-7478-3M197 | | |
| | | | A-7478-A4E197 | 22-12-4048 | A-7478-4M197 | | |
| | | 22-05-3055 | A-7478-A5E197 | 22-12-4058 | A-7478-5M197 | | |
| | | | A-7478-A6E197 | 22-12-4068 | A-7478-6M197 | | |
| | | 22-05-3075 | A-7478-A7E197 | 22-12-4078 | A-7478-7M197 | | |
| | | | A-7478-A8E197 | 22-12-4088 | A-7478-8M197 | | |
| | | | A-7478-A9E197 | 22-12-4098 | A-7478-9M197 | | |
| | | | A-7478-A10E197 | 22-12-4108 | A-7478-10M197 | | |
| | | | A-7478-A11E197 | 22-12-4118 | A-7478-11M197 | | |
| | | | A-7478-A12E197 | 22-12-4128 | A-7478-12M197 | | |
| | | | A-7478-A13E197 | 22-12-4138 | A-7478-13M197 | | |
| | | | A-7478-A14E197 | 22-12-4148 | A-7478-14M197 | | |
| | | | A-7478-A15E197 | 22-12-4158 | A-7478-15M197 | | |
| | | | A-7478-A16E197 | 22-12-4168 | A-7478-16M197 | | |
| | | | A-7478-A17E197 | 22-12-4178 | A-7478-17M197 | | |
| | | | A-7478-A18E197 | 22-12-4188 | A-7478-18M197 | | |
| | | 22-05-3195 | A-7478-A19E197 | 22-12-4198 | A-7478-19M197 | | |
| | | | A-7478-A20E197 | 22-12-4208 | A-7478-20M197 | | |
| | | | A-7478-A21E197 | 22-12-4218 | A-7478-21M197 | | |
| | | | A-7478-A22E197 | 22-12-4228 | A-7478-22M197 | | |
| | | | A-7478-A23E197 | 22-12-4238 | A-7478-23M197 | | |
| | | | A-7478-A24E197 | 22-12-4248 | A-7478-24M197 | | |
| | | | A-7478-A25E197 | 22-12-4258 | A-7478-25M197 | | |
| | | | A-7478-A26E197 | 22-12-4268 | A-7478-26M197 | | |
| | | | A-7478-A27E197 | 22-12-4278 | A-7478-27M197 | | |
| | | | A-7478-A28E197 | 22-12-4288 | A-7478-28M197 | | |

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|--|--|--|----------------------|--------------------------|--|--------------|----------------------|------------------------|---|--|
| SEE SHEET 1 REC NO: UCP2014-4754 DRAWN BY: 2014/05/13 CHKD BY: 2014/05/13 APPROVED BY: 2014/05/16 AA1 | QUALITY SYMBOLS ∇=0 ∇=0 ∇=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH | | DIMENSION STYLE MM/IN | | SCALE --- | DESIGN UNITS INCH | THIRD ANGLE PROJECTION | | |
| | | 4 PLACES ± --- ± --- | DRAWN BY: GUZIC | DATE: 1987/07/30 | TITLE FRICTION LOCK HEADER ASY .100 CL BENT SQ PINS 7478 SERIES DWG molex | | | | | |
| | | 3 PLACES ± --- ± .010 | CHECKED BY: PATEL | DATE: 1987/07/30 | | | | | | |
| | | 2 PLACES ± 0.25 ± .015 | APPROVED BY: F SMITH | DATE: 2014/05/16 | MATERIAL NO. | | DOCUMENT NO. | | SHEET NO. | |
| 1 PLACE ± 0.38 ± --- | ANGULAR ± 1/2° | | SEE CHART | | SDA-7478 | | 6 OF 7 | | | |
| 0 PLACE ± --- ± --- | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | | | | | | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | |

12 11 10 9 8 7 6 5 4 3 2 1

| A-7478-NH228 | | | | A-7478-NN197 | | A-7478-NP197 | | | | | |
|--------------|---------------|----------|----------|--------------|---------------|--------------|---------------|----------|----------|----------|----------|
| PART NO. | ENG. NO. | PART NO. | ENG. NO. | PART NO. | ENG. NO. | | | PART NO. | ENG. NO. | PART NO. | ENG. NO. |
| 22-16-3026 | A-7478-2H228 | | | | A-7478-2N197 | 50-29-0033 | A-7478-2P197 | | | | |
| 22-16-3036 | A-7478-3H228 | | | | A-7478-3N197 | | A-7478-3P197 | | | | |
| 22-16-3046 | A-7478-4H228 | | | | A-7478-4N197 | | A-7478-4P197 | | | | |
| 22-16-3056 | A-7478-5H228 | | | | A-7478-5N197 | 22-05-8053 | A-7478-5P197 | | | | |
| 22-16-3066 | A-7478-6H228 | | | | A-7478-6N197 | | A-7478-6P197 | | | | |
| 22-16-3076 | A-7478-7H228 | | | | A-7478-7N197 | | A-7478-7P197 | | | | |
| 22-16-3086 | A-7478-8H228 | | | | A-7478-8N197 | | A-7478-8P197 | | | | |
| 22-16-3096 | A-7478-9H228 | | | | A-7478-9N197 | | A-7478-9P197 | | | | |
| 22-16-3106 | A-7478-10H228 | | | | A-7478-10N197 | | A-7478-10P197 | | | | |
| 22-16-3116 | A-7478-11H228 | | | | A-7478-11N197 | | A-7478-11P197 | | | | |
| 22-16-3126 | A-7478-12H228 | | | | A-7478-12N197 | | A-7478-12P197 | | | | |
| 22-16-3136 | A-7478-13H228 | | | | A-7478-13N197 | | A-7478-13P197 | | | | |
| 22-16-3146 | A-7478-14H228 | | | | A-7478-14N197 | | A-7478-14P197 | | | | |
| 22-16-3156 | A-7478-15H228 | | | | A-7478-15N197 | | A-7478-15P197 | | | | |
| 22-16-3166 | A-7478-16H228 | | | | A-7478-16N197 | | A-7478-16P197 | | | | |
| 22-16-3176 | A-7478-17H228 | | | 22-59-5176 | A-7478-17N197 | | A-7478-17P197 | | | | |
| 22-16-3186 | A-7478-18H228 | | | | A-7478-18N197 | | A-7478-18P197 | | | | |
| 22-16-3196 | A-7478-19H228 | | | | A-7478-19N197 | | A-7478-19P197 | | | | |
| 22-16-3206 | A-7478-20H228 | | | | A-7478-20N197 | | A-7478-20P197 | | | | |
| 22-16-3216 | A-7478-21H228 | | | | A-7478-21N197 | | A-7478-21P197 | | | | |
| 22-16-3226 | A-7478-22H228 | | | | A-7478-22N197 | | A-7478-22P197 | | | | |
| 22-16-3236 | A-7478-23H228 | | | | A-7478-23N197 | | A-7478-23P197 | | | | |
| 22-16-3246 | A-7478-24H228 | | | | A-7478-24N197 | | A-7478-24P197 | | | | |
| 22-16-3256 | A-7478-25H228 | | | | A-7478-25N197 | | A-7478-25P197 | | | | |
| 22-16-3266 | A-7478-26H228 | | | | A-7478-26N197 | | A-7478-26P197 | | | | |
| 22-16-3276 | A-7478-27H228 | | | | A-7478-27N197 | | A-7478-27P197 | | | | |
| 22-16-3286 | A-7478-28H228 | | | | A-7478-28N197 | | A-7478-28P197 | | | | |

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|--|---------------------|---|------------|-----------------|--------------|---|--------------|------------------------|
| SEE SHEET 1 EC NO: UCP2014-4754 DRAWN BY: 2014/05/13 CHKD BY: 2014/05/13 APPROVED BY: 2014/05/16 | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE | | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION |
| | | mm | INCH | MM/IN | | --- | INCH | |
| | | 4 PLACES ±--- | ±--- | DRAWN BY | DATE | TITLE | | |
| | | 3 PLACES ±--- | ±.010 | GUZIC | 1987/07/30 | FRICTION LOCK HEADER ASY .100 CL BENT SQ PINS 7478 SERIES DWG | | |
| 2 PLACES ±0.25 | ±.015 | CHECKED BY | DATE | | | | | |
| 1 PLACE ±0.38 | ±--- | PATEL | 1987/07/30 | | | | | |
| 0 PLACE ±--- | ±--- | APPROVED BY | DATE | MATERIAL NO. | DOCUMENT NO. | SHEET NO. | | |
| | | FSMITH | 2014/05/16 | SEE CHART | SDA-7478 | 7 OF 7 | | |
| ANGULAR ±1/2° | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | | | | | | | |