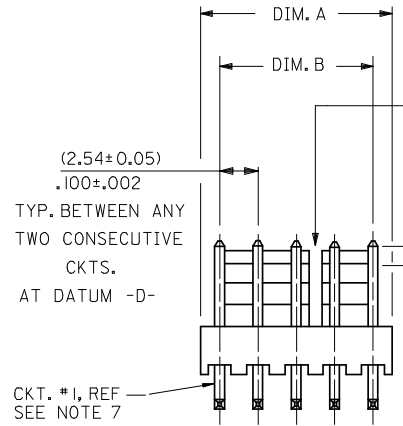
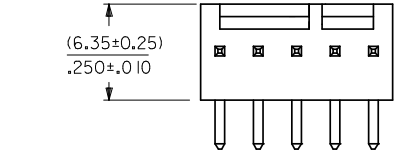


|   | 13 | 12                               | 11                             | 10               | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|---|----|----------------------------------|--------------------------------|------------------|---|---|---|---|---|---|---|---|---|
| J | 28 | (71.12 / 70.61)<br>2.800 / 2.780 | (68.58 ± 0.25)<br>2.700 ± .010 | 4 , 5<br>24 , 25 |   |   |   |   |   |   |   |   |   |
|   | 27 | (68.58 / 68.07)<br>2.700 / 2.680 | (66.04 ± 0.25)<br>2.600 ± .010 | 4 , 5<br>24 , 25 |   |   |   |   |   |   |   |   |   |
|   | 26 | (66.04 / 65.53)<br>2.600 / 2.580 | (63.50 ± 0.25)<br>2.500 ± .010 | 4 , 5<br>20 , 21 |   |   |   |   |   |   |   |   |   |
| I | 25 | (63.50 / 62.99)<br>2.500 / 2.480 | (60.96 ± 0.25)<br>2.400 ± .010 | 4 , 5<br>20 , 21 |   |   |   |   |   |   |   |   |   |
|   | 24 | (60.96 / 60.45)<br>2.400 / 2.380 | (58.42 ± 0.25)<br>2.300 ± .010 | 4 , 5<br>20 , 21 |   |   |   |   |   |   |   |   |   |
|   | 23 | (58.42 / 57.96)<br>2.300 / 2.282 | (55.88 ± 0.23)<br>2.200 ± .009 | 4 , 5<br>20 , 21 |   |   |   |   |   |   |   |   |   |
|   | 22 | (55.88 / 55.42)<br>2.200 / 2.182 | (53.34 ± 0.23)<br>2.100 ± .009 | 4 , 5<br>16 , 17 |   |   |   |   |   |   |   |   |   |
| H | 21 | (53.34 / 52.88)<br>2.100 / 2.082 | (50.80 ± 0.23)<br>2.000 ± .009 | 4 , 5<br>16 , 17 |   |   |   |   |   |   |   |   |   |
|   | 20 | (50.80 / 50.34)<br>2.000 / 1.982 | (48.26 ± 0.23)<br>1.900 ± .009 | 4 , 5<br>16 , 17 |   |   |   |   |   |   |   |   |   |
|   | 19 | (48.26 / 47.80)<br>1.900 / 1.882 | (45.72 ± 0.23)<br>1.800 ± .009 | 4 , 5<br>16 , 17 |   |   |   |   |   |   |   |   |   |
| G | 18 | (45.72 / 45.31)<br>1.800 / 1.784 | (43.18 ± 0.20)<br>1.700 ± .008 | 4 , 5<br>12 , 13 |   |   |   |   |   |   |   |   |   |
|   | 17 | (43.18 / 42.77)<br>1.700 / 1.684 | (40.64 ± 0.20)<br>1.600 ± .008 | 4 , 5<br>12 , 13 |   |   |   |   |   |   |   |   |   |
|   | 16 | (40.64 / 40.23)<br>1.600 / 1.584 | (38.10 ± 0.20)<br>1.500 ± .008 | 4 , 5<br>12 , 13 |   |   |   |   |   |   |   |   |   |
| F | 15 | (38.10 / 37.69)<br>1.500 / 1.484 | (35.56 ± 0.20)<br>1.400 ± .008 | 4 , 5<br>12 , 13 |   |   |   |   |   |   |   |   |   |
|   | 14 | (35.56 / 35.20)<br>1.400 / 1.386 | (33.02 ± 0.18)<br>1.300 ± .007 | 4 , 5<br>8 , 9   |   |   |   |   |   |   |   |   |   |
|   | 13 | (33.02 / 32.66)<br>1.300 / 1.286 | (30.48 ± 0.18)<br>1.200 ± .007 | 4 , 5<br>8 , 9   |   |   |   |   |   |   |   |   |   |
| E | 12 | (30.48 / 30.12)<br>1.200 / 1.186 | (27.94 ± 0.18)<br>1.100 ± .007 | 4 , 5<br>8 , 9   |   |   |   |   |   |   |   |   |   |
|   | 11 | (27.94 / 27.58)<br>1.100 / 1.086 | (25.40 ± 0.18)<br>1.000 ± .007 | 4 , 5<br>8 , 9   |   |   |   |   |   |   |   |   |   |
|   | 10 | (25.40 / 25.04)<br>1.000 / .986  | (22.86 ± 0.15)<br>.900 ± .006  | 4 , 5            |   |   |   |   |   |   |   |   |   |
|   | 9  | (22.86 / 22.50)<br>.900 / .886   | (20.32 ± 0.15)<br>.800 ± .006  | 4 , 5            |   |   |   |   |   |   |   |   |   |
| D | 8  | (20.32 / 19.96)<br>.800 / .786   | (17.78 ± 0.15)<br>.700 ± .006  | 4 , 5            |   |   |   |   |   |   |   |   |   |
|   | 7  | (17.78 / 17.42)<br>.700 / .686   | (15.24 ± 0.13)<br>.600 ± .005  | 4 , 5            |   |   |   |   |   |   |   |   |   |
|   | 6  | (15.24 / 14.88)<br>.600 / .586   | (12.70 ± 0.13)<br>.500 ± .005  | 4 , 5            |   |   |   |   |   |   |   |   |   |
| C | 5  | (12.70 / 12.40)<br>.500 / .488   | (10.16 ± 0.13)<br>.400 ± .005  | NONE             |   |   |   |   |   |   |   |   |   |
|   | 4  | (10.16 / 9.86)<br>.400 / .388    | (7.62 ± 0.13)<br>.300 ± .005   | NONE             |   |   |   |   |   |   |   |   |   |
|   | 3  | (7.62 / 7.32)<br>.300 / .288     | (5.08 ± 0.10)<br>.200 ± .004   | NONE             |   |   |   |   |   |   |   |   |   |
| B | 2  | (5.08 / 4.78)<br>.200 / .188     | (2.54 ± 0.05)<br>.100 ± .002   | NONE             |   |   |   |   |   |   |   |   |   |

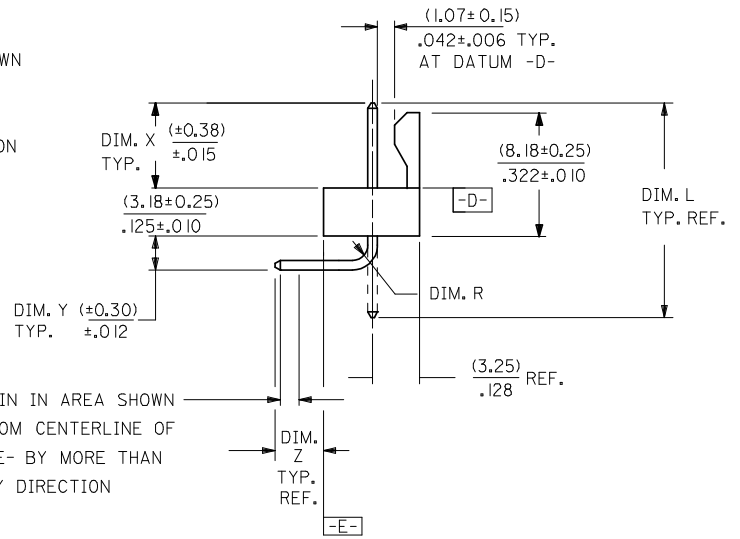


NOTES:

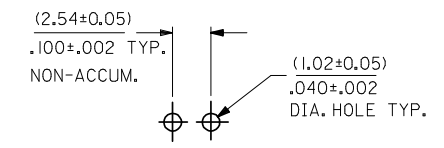
- MATERIAL: NYLON, UL94V-0, COLOR: WHITE
- FINISH:
  - (102) - OVERALL TIN: (0.00508)/.000200 MIN., OVERALL COPPER UNDERPLATE: (0.00254)/.000100 MIN.
  - (154) - OVERALL TIN: (0.00254)/.000100 MIN., OVERALL NICKEL UNDERPLATE: (0.00127)/.000050 MIN.
  - (501) - OVERALL GOLD: (0.00051)/.000020 MIN., OVERALL NICKEL UNDERPLATE: (0.00076)/.000030 MIN.
  - (503) - OVERALL GOLD: (0.00076)/.000030 MIN., OVERALL NICKEL UNDERPLATE: (0.00127)/.000050 MIN.
  - (531) - OVERALL GOLD: (0.00038)/.000015 MIN., OVERALL NICKEL UNDERPLATE: (0.00076)/.000030 MIN.
- 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 HOUSING.
- THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

SLOTS LOCATED BETWEEN CIRCUITS (SEE CHART)

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



CENTERLINE OF PIN IN AREA SHOWN NOT TO VARY FROM CENTERLINE OF PIN AT DATUM -E- BY MORE THAN (0.13)/.005 IN ANY DIRECTION



RECOMMENDED P.C. BOARD HOLE LAYOUT

A-7478-N\*\*\*

NO. OF CKTS.

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

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

PLATING SEE NOTE 2

|     |     |
|-----|-----|
| 7   | Y4  |
| 6   | W1  |
| 5   | Y8  |
| 4   | Y7  |
| 3   | Y9  |
| 2   | Y9  |
| 1   | Y11 |
| SHT | REV |

|                     |             |                 |
|---------------------|-------------|-----------------|
| REMOVE ES-42003     | 2008/08/12  | QUALITY SYMBOLS |
| EC NO: UCP2009-0359 | 2008/08/14  | ▽=0             |
| DRWNG:GVERILL       | 2008/08/14  | ▽=0             |
| CHKD:HKIPPER        | 2008/08/14  |                 |
| APPR:FSMLTH         | 2008/08/14  |                 |
| REV                 | DESCRIPTION |                 |
| Y11                 |             |                 |

| GENERAL TOLERANCES (UNLESS SPECIFIED)                |        |
|--|--------|
|  | MM/IN  |
| 4 PLACES   | ± .010 |
| 3 PLACES   | ± .010 |
| 2 PLACES   | ± .025 |
| 1 PLACE  | ± .038 |
| ANGULAR ±1/2°  |        |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |        |

| DIMENSION STYLE |            | SCALE   | DESIGN UNITS | THIRD ANGLE PROJECTION |
|-----------------|------------|---|--------------|------------------------|
| MM/IN           |            | 4:1   | INCH         |                        |
| DRAWN BY        | DATE       | TITLE   |              |                        |
| GUZIC           | 1987/07/30 | FRICTION LOCK HEADER ASY  |              |                        |
| CHECKED BY      | DATE       | .100 CL BENT SQ PINS  |              |                        |
| PATEL           | 1987/07/30 | 7478 SERIES DWG   |              |                        |
| APPROVED BY     | DATE       | MOLEX INCORPORATED  |              |                        |
| LENZ            | 1987/07/30 | DOCUMENT NO. SDA-7478   |              |                        |
| MATERIAL NO.    | SEE CHART  | SHEET NO. 1 OF 7  |              |                        |
| SIZE            | C          | 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         | ENG. NO. | PIN NO. | DIM. L | DIM. X | DIM. Z | DIM. Y | DIM. W | DIM. T | J |
|   | A-7478-NA102  | 2766-41(I102)  | (18.69)<br>.736 | (6.60)<br>.260 | (3.58)<br>.141 | (3.05)<br>.120 | 90°    | (1.17)<br>.046 |          |         |        |        |        |        |        |        |   |
|   | A-7478-NA50I  | 2766-41(I50I)  | (18.69)<br>.736 | (6.60)<br>.260 | (3.58)<br>.141 | (3.05)<br>.120 | 90°    | (1.17)<br>.046 |          |         |        |        |        |        |        |        |   |
| I | A-7478-NA50IT | 2766-41(I50IT) | (18.69)<br>.736 | (6.60)<br>.260 | (3.58)<br>.141 | (3.05)<br>.120 | 90°    | (1.17)<br>.046 |          |         |        |        |        |        |        |        | I |
|   | A-7478-NA102T | 2766-41(I102T) | (18.69)<br>.736 | (6.60)<br>.260 | (3.58)<br>.141 | (3.05)<br>.120 | 90°    | (1.17)<br>.046 |          |         |        |        |        |        |        |        |   |
| H |               |                |                 |                |                |                |        |                |          |         |        |        |        |        |        |        | H |
| G |               |                |                 |                |                |                |        |                |          |         |        |        |        |        |        |        | G |
| F |               |                |                 |                |                |                |        |                |          |         |        |        |        |        |        |        | F |
| E |               |                |                 |                |                |                |        |                |          |         |        |        |        |        |        |        | E |
| D |               |                |                 |                |                |                |        |                |          |         |        |        |        |        |        |        | D |
| C |               |                |                 |                |                |                |        |                |          |         |        |        |        |        |        |        | C |

|   |   |             |                               |  |      |                          |                    |  |                      |                        |                    |  |
|---|---|-------------|-------------------------------|--|------|--------------------------|--------------------|--|----------------------|------------------------|--------------------|--|
| B | ADD A-7478-NA102T<br>EC NO: UCP2006-1815<br>DRAWN: ADERR 2006/02/06<br>CHKD: AELHAG 2006/02/06<br>APPR: FSM TH 2006/02/09 | DESCRIPTION | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |      | DIMENSION STYLE<br>IN/MM |                    | SCALE<br>---   | DESIGN UNITS<br>INCH | THIRD ANGLE PROJECTION |                    | TITLE<br>FRICTION LOCK HEADER ASY<br>.100 CL BENT SQ PINS<br>7478 SERIES DWG |
|   |   |             |                               | mm   | INCH | DRAWN BY<br>GUZIK        | DATE<br>1987/07/10 | CHECKED BY<br>PATEL  | DATE<br>1987/07/10   | APPROVED BY<br>LENZ    | DATE<br>1987/07/10 |  |
| A | Y9  |             |                               | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |      | SEE CHART                |                    | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                      | SHEET NO.<br>2 OF 7    |                    |  |

|   | 13            | 12               | 11            | 10               | 9              | 8               | 7              | 6              | 5        | 4        | 3        | 2        | 1        |          |
|---|---------------|------------------|---------------|------------------|----------------|-----------------|----------------|----------------|----------|----------|----------|----------|----------|----------|
|   | A-7478-NA I02 |                  | A-7478-NA50 I |                  | A-7478-NA50 IT |                 | A-7478-NA I02T |                |          |          |          |          |          |          |
| 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. | PART NO. | ENG. NO. |
|   | 22-05-302I    | * A-7478-2A I02  | 22-12-2024    | * A-7478-2A50 I  | 50-29- I7 I0   | A-7478-2A50 IT  | 50-34-8500     | A-7478-2A I02T |          |          |          |          |          |          |
|   | 22-05-303I    | * A-7478-3A I02  | 22-12-2034    | * A-7478-3A50 I  | 50-29- I7 I1   | A-7478-3A50 IT  | 50-34-8501     | A-7478-3A I02T |          |          |          |          |          |          |
|   | 22-05-304I    | * A-7478-4A I02  | 22-12-2044    | * A-7478-4A50 I  | 50-29- I705    | A-7478-4A50 IT  | 50-34-8502     | A-7478-4A I02T |          |          |          |          |          |          |
| I | 22-05-305I    | * A-7478-5A I02  | 22-12-2054    | * A-7478-5A50 I  | 50-29- I7 I2   | A-7478-5A50 IT  |                |                |          |          |          |          |          |          |
|   | 22-05-306I    | * A-7478-6A I02  | 22-12-2064    | * A-7478-6A50 I  | 50-29- I7 I3   | A-7478-6A50 IT  |                |                |          |          |          |          |          |          |
|   | 22-05-307I    | * A-7478-7A I02  | 22-12-2074    | * A-7478-7A50 I  | 50-29- I7 I4   | A-7478-7A50 IT  |                |                |          |          |          |          |          |          |
|   | 22-05-308I    | * A-7478-8A I02  | 22-12-2084    | * A-7478-8A50 I  | 50-29- I7 I5   | A-7478-8A50 IT  |                |                |          |          |          |          |          |          |
|   | 22-05-309I    | * A-7478-9A I02  | 22-12-2094    | * A-7478-9A50 I  | 50-29- I7 I6   | A-7478-9A50 IT  |                |                |          |          |          |          |          |          |
|   | 22-05-310I    | * A-7478-10A I02 | 22-12-2104    | * A-7478-10A50 I | 50-29- I7 I7   | A-7478-10A50 IT |                |                |          |          |          |          |          |          |
| H | 22-05-311I    | * A-7478-11A I02 | 22-12-2114    | * A-7478-11A50 I | 50-29- I7 I8   | A-7478-11A50 IT |                |                |          |          |          |          |          |          |
|   | 22-05-312I    | * A-7478-12A I02 | 22-12-2124    | * A-7478-12A50 I | 50-29- I7 I9   | A-7478-12A50 IT |                |                |          |          |          |          |          |          |
|   | 22-05-313I    | * A-7478-13A I02 | 22-12-2134    | * A-7478-13A50 I | 50-29- I720    | A-7478-13A50 IT |                |                |          |          |          |          |          |          |
|   | 22-05-314I    | * A-7478-14A I02 | 22-12-2144    | * A-7478-14A50 I | 50-29- I721    | A-7478-14A50 IT |                |                |          |          |          |          |          |          |
|   | 22-05-315I    | * A-7478-15A I02 | 22-12-2154    | * A-7478-15A50 I | 50-29- I722    | A-7478-15A50 IT |                |                |          |          |          |          |          |          |
|   | 22-05-316I    | * A-7478-16A I02 | 22-12-2164    | * A-7478-16A50 I | 50-29- I723    | A-7478-16A50 IT |                |                |          |          |          |          |          |          |
| G | 22-05-317I    | * A-7478-17A I02 | 22-12-2174    | * A-7478-17A50 I | 50-29- I724    | A-7478-17A50 IT |                |                |          |          |          |          |          |          |
|   | 22-05-318I    | * A-7478-18A I02 | 22-12-2184    | * A-7478-18A50 I | 50-29- I725    | A-7478-18A50 IT |                |                |          |          |          |          |          |          |
|   | 22-05-319I    | * A-7478-19A I02 | 22-12-2194    | * A-7478-19A50 I | 50-29- I726    | A-7478-19A50 IT |                |                |          |          |          |          |          |          |
|   | 22-05-320I    | * A-7478-20A I02 | 22-12-2204    | * A-7478-20A50 I | 50-29- I727    | A-7478-20A50 IT |                |                |          |          |          |          |          |          |
|   | 22-05-321I    | * A-7478-21A I02 | 22-12-2214    | * A-7478-21A50 I | 50-29- I728    | A-7478-21A50 IT |                |                |          |          |          |          |          |          |
| F | 22-05-322I    | * A-7478-22A I02 | 22-12-2224    | * A-7478-22A50 I | 50-29- I729    | A-7478-22A50 IT |                |                |          |          |          |          |          |          |
|   | 22-05-323I    | * A-7478-23A I02 | 22-12-2234    | * A-7478-23A50 I | 50-29- I730    | A-7478-23A50 IT |                |                |          |          |          |          |          |          |
|   | 22-05-324I    | * A-7478-24A I02 | 22-12-2244    | * A-7478-24A50 I | 50-29- I731    | A-7478-24A50 IT |                |                |          |          |          |          |          |          |
|   | 22-05-325I    | * A-7478-25A I02 | 22-12-2254    | * A-7478-25A50 I | 50-29- I732    | A-7478-25A50 IT |                |                |          |          |          |          |          |          |
|   | 22-05-326I    | * A-7478-26A I02 | 22-12-2264    | * A-7478-26A50 I | 50-29- I733    | A-7478-26A50 IT |                |                |          |          |          |          |          |          |
| E | 22-05-327I    | * A-7478-27A I02 | 22-12-2274    | * A-7478-27A50 I | 50-29- I734    | A-7478-27A50 IT |                |                |          |          |          |          |          |          |
|   | 22-05-328I    | * A-7478-28A I02 | 22-12-2284    | * A-7478-28A50 I | 50-29- I735    | A-7478-28A50 IT |                |                |          |          |          |          |          |          |

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|  |   |  |   |                          |                          |                     |   |   |
|--|---|--|---|--------------------------|--------------------------|---------------------|---|---|
| ADD P/N'S<br>FCC NO. UCP2006-1815<br>DRAWN/ADDER<br>CHKD: AELHAG<br>APPR: FSM TH<br>Y9 | DESCRIPTION<br>2006/02/06<br>2006/02/06<br>2006/02/09 | QUALITY SYMBOLS  | GENERAL TOLERANCES (UNLESS SPECIFIED)   | DIMENSION STYLE          | SCALE                    | DESIGN UNITS        | THIRD ANGLE PROJECTION  |   |
|  |   | $\nabla=0$<br>$\sphericalangle=0$  | mm INCH<br>4 PLACES ± --- ± ---<br>3 PLACES ± --- ± ---<br>2 PLACES ± --- ± ---<br>1 PLACE ± --- ± ---<br>ANGULAR ± --- ° | IN/MM                    | ---                      | INCH                | DRAWN BY DATE<br>GUZIK 1987/07/10<br>CHECKED BY DATE<br>PATEL 1987/07/10<br>APPROVED BY DATE<br>LENZ 1987/07/10 | TITLE<br>FRICTION LOCK HEADER ASY<br>.100 CL BENT SQ PINS<br>7478 SERIES DWG. |
|  |   | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS   | SEE CHART   | MATERIAL NO.<br>SDA-7478 | DOCUMENT NO.<br>SDA-7478 | SHEET NO.<br>3 OF 7 |   |   |
|  |   | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |   |                          |                          |                     |   |   |

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