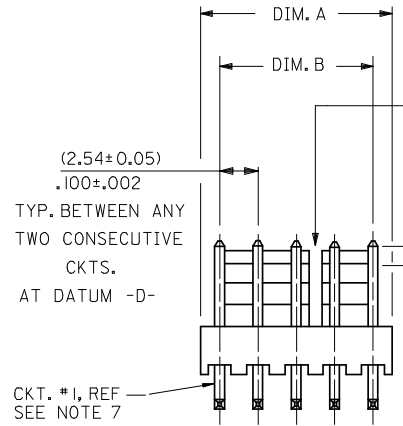
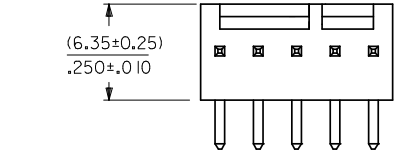


| | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|---|----|----------------------------------|--------------------------------|------------------|---|---|---|---|---|---|---|---|---|
| J | 28 | (71.12 / 70.61) 2.800 / 2.780 | (68.58 ± 0.25) 2.700 ± .010 | 4 , 5 24 , 25 | | | | | | | | | |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

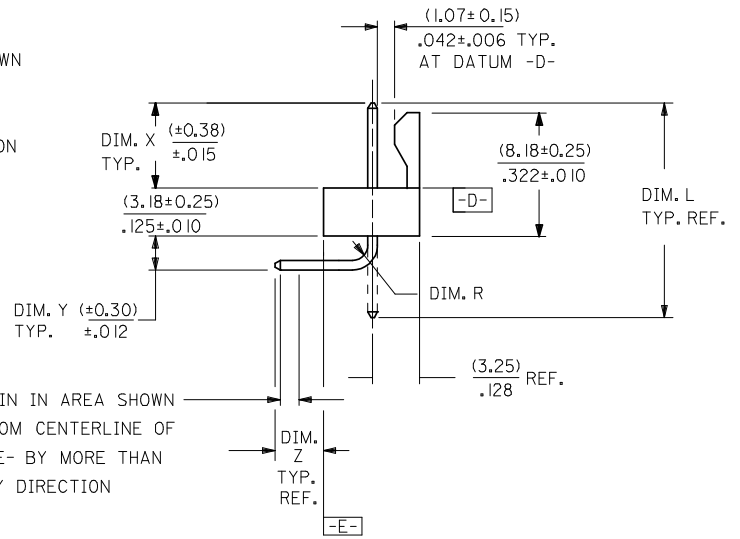


NOTES:

- MATERIAL: NYLON, UL94V-D, 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)

(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



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

A-7478-N***

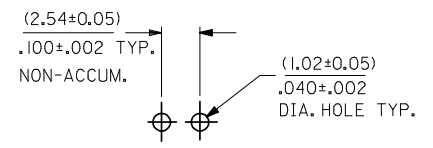
NO. OF CKTS. →

| 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

RECOMMENDED P.C. BOARD HOLE LAYOUT



| NO. OF CKTS. | DIM. A | DIM. B | SLOTS LOC. |
|--------------|--------|--------|------------|
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |

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

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

| GENERAL TOLERANCES (UNLESS SPECIFIED) | | |
|--|--------|--------|
| | mm | INCH |
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± .010 |
| 2 PLACES | ± 0.25 | ± .015 |
| 1 PLACE | ± 0.38 | ± --- |
| ANGULAR ±1/2° | | |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | |

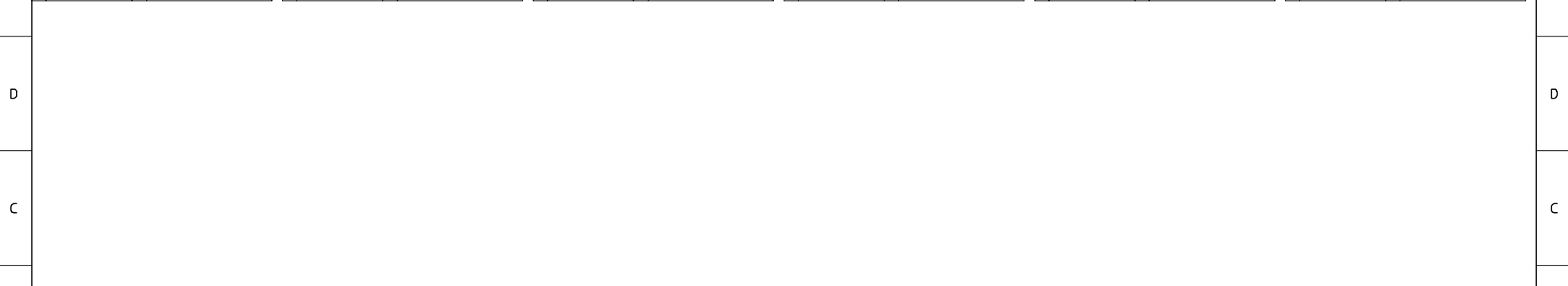
| DIMENSION STYLE | |
|-----------------|--------------|
| SCALE | DESIGN UNITS |
| MM/IN | INCH |
| 4:1 | |
| DRAWN BY | DATE |
| GUZIC | 1987/07/30 |
| CHECKED BY | DATE |
| PATEL | 1987/07/30 |
| APPROVED BY | DATE |
| LENZ | 1987/07/30 |
| MATERIAL NO. | DOCUMENT NO. |
| SEE CHART | SDA-7478 |
| SIZE | SHEET NO. |
| C | 1 OF 7 |

| THIRD ANGLE PROJECTION | |
|---|--|
| FRICITION LOCK HEADER ASY | |
| .100 CL BENT SQ PINS | |
| 7478 SERIES DWG | |
| MOLEX INCORPORATED | |
| 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) .736 | (6.60) .260 | (3.58) .141 | (3.05) .120 | 90° | (1.17) .046 | | | | | | | | | |
| | A-7478-NA50I | 2766-41(I50I) | (18.69) .736 | (6.60) .260 | (3.58) .141 | (3.05) .120 | 90° | (1.17) .046 | | | | | | | | | |
| I | A-7478-NA50IT | 2766-41(I50IT) | (18.69) .736 | (6.60) .260 | (3.58) .141 | (3.05) .120 | 90° | (1.17) .046 | | | | | | | | | I |
| | A-7478-NA102T | 2766-41(I102T) | (18.69) .736 | (6.60) .260 | (3.58) .141 | (3.05) .120 | 90° | (1.17) .046 | | | | | | | | | |
| H | | | | | | | | | | | | | | | | | H |
| G | | | | | | | | | | | | | | | | | G |
| F | | | | | | | | | | | | | | | | | F |
| E | | | | | | | | | | | | | | | | | E |
| D | | | | | | | | | | | | | | | | | D |
| C | | | | | | | | | | | | | | | | | C |

| | | | | | | | | | | | | | |
|---|--|-------------------------------|---------------------------------------|------|--|--------------------|----------------------|----------------------|--|--|--|--------------------------|---------------------|
| B | ADD A-7478-NA102T EC NO: UCP2006-1815 DRAWN:ADER 2006/02/06 CHKD:AEI/HAG 2006/02/06 APPR:FSM/TH 2006/02/09 | QUALITY SYMBOLS ▽=0 ▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE IN/MM | | SCALE --- | DESIGN UNITS INCH | THIRD ANGLE PROJECTION | | TITLE FRICTION LOCK HEADER ASY .100 CL BENT SQ PINS 7478 SERIES DWG | | |
| | | | mm | INCH | DRAWN BY GUZIK | DATE 1987/07/10 | | | | | | | |
| A | Y9 | DESCRIPTION | 4 PLACES ± --- ± --- | | 3 PLACES ± --- ± --- | | 2 PLACES ± --- ± --- | | 1 PLACE ± --- ± --- | | MATERIAL NO. LENZ | DOCUMENT NO. SDA-7478 | SHEET NO. 2 OF 7 |
| | | | ANGULAR ± --- ° | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | SEE CHART | | 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 | |
|---|--------------|-----------------|--------------|-----------------|---------------|----------------|---------------|---------------|----------|----------|----------|----------|----------|----------|
| | A-7478-NA102 | | A-7478-NA501 | | A-7478-NA501T | | A-7478-NA102T | | | | | | | |
| 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. |
| | 22-05-3021 | * A-7478-2A102 | 22-12-2024 | * A-7478-2A501 | 50-29-1710 | A-7478-2A501T | 50-34-8500 | A-7478-2A102T | | | | | | |
| | 22-05-3031 | * A-7478-3A102 | 22-12-2034 | * A-7478-3A501 | 50-29-1711 | A-7478-3A501T | 50-34-8501 | A-7478-3A102T | | | | | | |
| | 22-05-3041 | * A-7478-4A102 | 22-12-2044 | * A-7478-4A501 | 50-29-1705 | A-7478-4A501T | 50-34-8502 | A-7478-4A102T | | | | | | |
| I | 22-05-3051 | * A-7478-5A102 | 22-12-2054 | * A-7478-5A501 | 50-29-1712 | A-7478-5A501T | | | | | | | | |
| | 22-05-3061 | * A-7478-6A102 | 22-12-2064 | * A-7478-6A501 | 50-29-1713 | A-7478-6A501T | | | | | | | | |
| | 22-05-3071 | * A-7478-7A102 | 22-12-2074 | * A-7478-7A501 | 50-29-1714 | A-7478-7A501T | | | | | | | | |
| | 22-05-3081 | * A-7478-8A102 | 22-12-2084 | * A-7478-8A501 | 50-29-1715 | A-7478-8A501T | | | | | | | | |
| | 22-05-3091 | * A-7478-9A102 | 22-12-2094 | * A-7478-9A501 | 50-29-1716 | A-7478-9A501T | | | | | | | | |
| H | 22-05-3101 | * A-7478-10A102 | 22-12-2104 | * A-7478-10A501 | 50-29-1717 | A-7478-10A501T | | | | | | | | |
| | 22-05-3111 | * A-7478-11A102 | 22-12-2114 | * A-7478-11A501 | 50-29-1718 | A-7478-11A501T | | | | | | | | |
| | 22-05-3121 | * A-7478-12A102 | 22-12-2124 | * A-7478-12A501 | 50-29-1719 | A-7478-12A501T | | | | | | | | |
| | 22-05-3131 | * A-7478-13A102 | 22-12-2134 | * A-7478-13A501 | 50-29-1720 | A-7478-13A501T | | | | | | | | |
| | 22-05-3141 | * A-7478-14A102 | 22-12-2144 | * A-7478-14A501 | 50-29-1721 | A-7478-14A501T | | | | | | | | |
| | 22-05-3151 | * A-7478-15A102 | 22-12-2154 | * A-7478-15A501 | 50-29-1722 | A-7478-15A501T | | | | | | | | |
| G | 22-05-3161 | * A-7478-16A102 | 22-12-2164 | * A-7478-16A501 | 50-29-1723 | A-7478-16A501T | | | | | | | | |
| | 22-05-3171 | * A-7478-17A102 | 22-12-2174 | * A-7478-17A501 | 50-29-1724 | A-7478-17A501T | | | | | | | | |
| | 22-05-3181 | * A-7478-18A102 | 22-12-2184 | * A-7478-18A501 | 50-29-1725 | A-7478-18A501T | | | | | | | | |
| | 22-05-3191 | * A-7478-19A102 | 22-12-2194 | * A-7478-19A501 | 50-29-1726 | A-7478-19A501T | | | | | | | | |
| | 22-05-3201 | * A-7478-20A102 | 22-12-2204 | * A-7478-20A501 | 50-29-1727 | A-7478-20A501T | | | | | | | | |
| | 22-05-3211 | * A-7478-21A102 | 22-12-2214 | * A-7478-21A501 | 50-29-1728 | A-7478-21A501T | | | | | | | | |
| F | 22-05-3221 | * A-7478-22A102 | 22-12-2224 | * A-7478-22A501 | 50-29-1729 | A-7478-22A501T | | | | | | | | |
| | 22-05-3231 | * A-7478-23A102 | 22-12-2234 | * A-7478-23A501 | 50-29-1730 | A-7478-23A501T | | | | | | | | |
| | 22-05-3241 | * A-7478-24A102 | 22-12-2244 | * A-7478-24A501 | 50-29-1731 | A-7478-24A501T | | | | | | | | |
| | 22-05-3251 | * A-7478-25A102 | 22-12-2254 | * A-7478-25A501 | 50-29-1732 | A-7478-25A501T | | | | | | | | |
| | 22-05-3261 | * A-7478-26A102 | 22-12-2264 | * A-7478-26A501 | 50-29-1733 | A-7478-26A501T | | | | | | | | |
| E | 22-05-3271 | * A-7478-27A102 | 22-12-2274 | * A-7478-27A501 | 50-29-1734 | A-7478-27A501T | | | | | | | | |
| | 22-05-3281 | * A-7478-28A102 | 22-12-2284 | * A-7478-28A501 | 50-29-1735 | A-7478-28A501T | | | | | | | | |



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