

## Excellent Integrated System Limited

Stocking Distributor

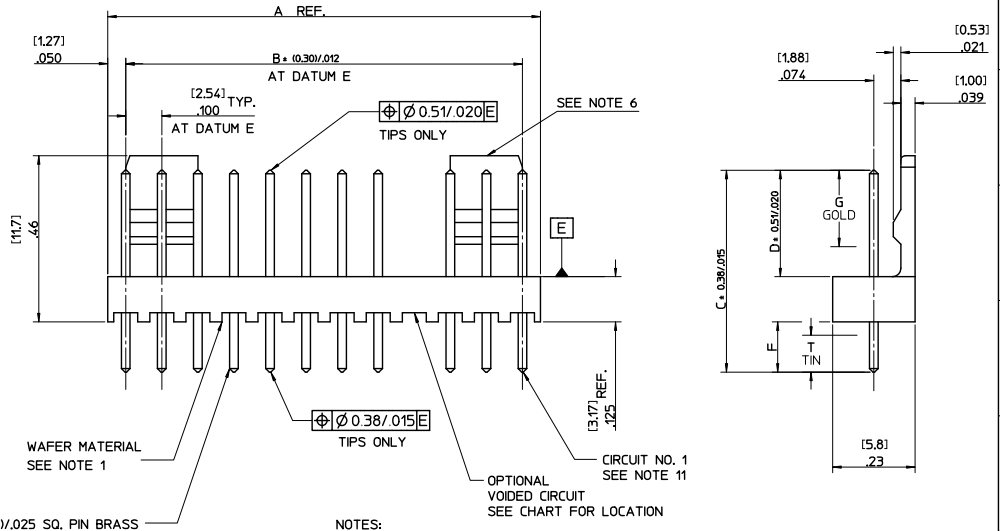
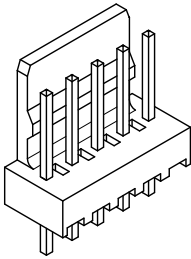
Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Molex Connector Corporation](#)  
[0022272041](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

| NO. OF CCTS | DIMN. "A"        | DIMN. "B"        |
|-------------|------------------|------------------|
| 2           | ( 5.08 )<br>200  | ( 2.54 )<br>100  |
| 3           | ( 7.62 )<br>300  | ( 5.08 )<br>200  |
| 4           | (10.16 )<br>400  | ( 7.62 )<br>300  |
| 5           | (12.70 )<br>500  | (10.16 )<br>400  |
| 6           | (15.24 )<br>600  | (12.70 )<br>500  |
| 7           | (17.78 )<br>700  | (15.24 )<br>600  |
| 8           | (20.32 )<br>800  | (17.78 )<br>700  |
| 9           | (22.86 )<br>900  | (20.32 )<br>800  |
| 10          | (25.40 )<br>1000 | (22.86 )<br>900  |
| 11          | (27.94 )<br>1100 | (25.40 )<br>1000 |
| 12          | (30.48 )<br>1200 | (27.94 )<br>1100 |
| 13          | (33.02 )<br>1300 | (30.48 )<br>1200 |
| 14          | (35.56 )<br>1400 | (33.02 )<br>1300 |
| 15          | (38.10 )<br>1500 | (35.56 )<br>1400 |
| 16          | (40.64 )<br>1600 | (38.10 )<br>1500 |

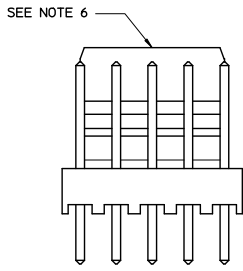
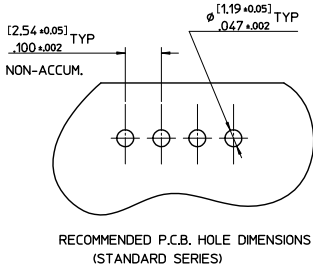


AE-6410- N \* (\*) - \*

NO. OF CCTS ——— NO. OF CCTS  
 WAFER ASSY. OPTION ——— WAFER ASSY. OPTION  
 PLATING TYPE ——— PLATING TYPE

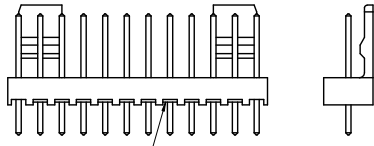
VOIDED CIRCUIT CODE NO. CORRESPONDS TO CIRCUIT NO. VOIDED. MULTIPLE VOIDS START WITH 51. BLANK = NONE

- NOTES:
1. WAFER MATERIAL: NYLON, UL94V-0, PIN MATERIAL: BRASS
  2. FINISH:  
 154 = OVERALL TIN: 0.00254/.00100 MIN. OVER 0.00127/.000050 MIN. NICKEL  
 197 = OVERALL REFLOWED MATTE TIN: 0.00152/.00060 MIN. OVER 0.00127/.000050 MIN. NICKEL  
 222 = OVERALL MATTE TIN: 0.00254/.00100 MIN. OVER 0.00127/.000050 MIN. NICKEL  
 228 = SELECT GOLD 0.00076/.000030 MIN., SELECT MATTE TIN: 0.00254/.00100 OVER 0.00127/.000050 MIN. NICKEL  
 231 = SELECT GOLD 0.00127/.000050 MIN., SELECT MATTE TIN: 0.00254/.00100 OVER 0.00076/.000030 MIN. NICKEL  
 241 = SELECT GOLD 0.00051/.000020 MIN., SELECT MATTE TIN: 0.00254/.00100 OVER 0.00076/.000030 MIN. NICKEL
  3. THIS PART CONFORMS TO MOLEX PROD. SPEC. PS-99020-0088.
  4. PACKAGING: PER PK-6410-002
  5. PIN SOLDERABILITY PER MOLEX SPEC. SMES-152.
  6. SINGLE RAMP ON 2-6 CCTS TWO RAMP ON 7-16 CCTS, AS SHOWN.
  7. PIN PUSH OUT FORCE: 10.907 Kgf/2lbs MIN.
  8. PCB THICKNESS 1.6MM
  9. WAFERS STACKABLE END TO END WITH (2.54)/.100 BETWEEN END PINS
  10. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002
  11. CIRCUIT 1 DESIGNATION IS USED TO DEFINE VOID LOCATION. CIRCUIT 1 MAY OR MAY NOT LINE UP WITH CIRCUIT 1 ON THE MATING HOUSING.



|   |                                      |   |                |                 |              |                      |              |                        |        |
|---|--------------------------------------|---|----------------|-----------------|--------------|----------------------|--------------|------------------------|--------|
| CHANGE PLATING<br>EC NO: UCP2012-1821<br>DRAWN BY: DRW:MS/STROH 2011/12/29<br>CHECKED BY: CHK:KOKKI/TPP 2012/01/03<br>APPROVED BY: APP:R/SMITH 2012/02/02 | QUALITY SYMBOLS<br>▽=0<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)   |                | DIMENSION STYLE |              | SCALE                | DESIGN UNITS | THIRD ANGLE PROJECTION |        |
|   |                                      | mm  | INCH           | MM/IN           | 5:1          | METRIC               |              |                        |        |
|   |                                      | 4 PLACES  | ± .010         | DATE            | 28/01/03     | TITLE                |              |                        |        |
|   |                                      | 3 PLACES  | ± .010         | CHECKED BY      | BMAGUIRE     | WAFER, FRICTION LOCK |              |                        |        |
|   |                                      | 2 PLACES  | ± 0.25 ± .014  | DATE            | 28/01/03     | KK (2.54)/.100 FOR   |              |                        |        |
|   |                                      | 1 PLACE   | ± 0.35 ± .---  | APPROVED BY     | JDENNEHY     | (0.64)/.025 SQ. PINS |              |                        |        |
|   |                                      |   | ANGULAR ± .5 ° | DATE            | 2005/03/11   | MOLEX INCORPORATED   |              |                        |        |
|   |                                      | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS  |                | MATERIAL NO.    | DOCUMENT NO. | SHEET NO.            |              |                        |        |
|   |                                      | SEE CHART   |                |                 |              | SDAE-6410-N          |              |                        |        |
|   |                                      | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                |                 |              |                      |              |                        | 1 OF 4 |

| ENG. NO.        | AE-6410-NA ( 222 ) | AE-6410-NC ( 197 )         | AE-6410-NH ( 197 )         | AE-6410-NJ ( 197 )         | AE-6410-NL ( 154 )         | AE-6410-NM ( 154 )         |                            |
|-----------------|--------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| DIMN. "D"       | (7.50)<br>.295     | (7.14)<br>.281             | (7.49)<br>.295             | (18.80)<br>.740            | (8.58)<br>.338             | (7.62)<br>.300             |                            |
| DIMN. "C"       | (14.22 ) / .560    | (20.32 ) / .800            | (14.98 ) / .590            | (25.40 ) / 1.000           | (23.88 ) / .940            | (20.32 ) / .800            |                            |
| DIMN. "F"       | (3.56 ) / .140 REF | (10.00 ) / .394 REF        | (4.32 ) / .170 REF         | (3.43 ) / .135 REF         | (12.13 ) / .477 REF        | (9.53 ) / .375 REF         |                            |
| DIMN. "G"       | N/A                | N/A                        | N/A                        | N/A                        | N/A                        | N/A                        |                            |
| DIMN. "T"       | OVERALL            | OVERALL                    | OVERALL                    | OVERALL                    | OVERALL                    | OVERALL                    |                            |
| PLATING         | 222                | 197                        | 197                        | 197                        | 154                        | 154                        |                            |
| NO. OF CIRCUITS | 2                  | AE-6410-2A(222) 22-27-2021 | AE-6410-2C(197) 38-00-6292 | AE-6410-2H(197) 38-00-6754 | AE-6410-2J(197) NOT TOOLED | AE-6410-2L(154) NOT TOOLED | AE-6410-2M(154) NOT TOOLED |
|                 | 3                  | 3 A(222) 2031              | 3 C(197) 6293              | 3 H(197) NOT TOOLED        | 3 J(102) NOT TOOLED        | 3 L(154) 26-01-3195        | 3 M(154) 26-01-3179        |
|                 | 4                  | 4 A(222) 2041              | 4 C(197) 6294              | 4 H(197) 22-27-2046        | 4 J(102) NOT TOOLED        | 4 L(154) NOT TOOLED        | 4 M(154) NOT TOOLED        |
|                 | 5                  | 5 A(222) 2051              | 5 C(197) 6295              | 5 H(197) NOT TOOLED        | 5 J(102) 22-27-2057        | 5 L(154)                   | 5 M(154)                   |
|                 | 6                  | 6 A(222) 2061              | 6 C(197) 6296              | 6 H(197)                   | 6 J(102) NOT TOOLED        | 6 L(154)                   | 6 M(154)                   |
|                 | 7                  | 7 A(222) 2071              | 7 C(197) 6297              | 7 H(197)                   | 7 J(102) NOT TOOLED        | 7 L(154)                   | 7 M(154)                   |
|                 | 8                  | 8 A(222) 2081              | 8 C(197) 6298              | 8 H(197)                   | 8 J(102) 22-27-2087        | 8 L(154)                   | 8 M(154)                   |
|                 | 9                  | 9 A(222) 2091              | 9 C(197) 6299              | 9 H(197)                   | 9 J(102) NOT TOOLED        | 9 L(154)                   | 9 M(154)                   |
|                 | 10                 | 10 A(222) 2101             | 10 C(197) 6300             | 10 H(197)                  | 10 J(102)                  | 10 L(154)                  | 10 M(154)                  |
|                 | 11                 | 11 A(222) 2111             | 11 C(197) 6301             | 11 H(197) NOT TOOLED       | 11 J(102)                  | 11 L(154)                  | 11 M(154)                  |
|                 | 12                 | 12 A(222) 2121             | 12 C(197) 6302             | 12 H(197) 22-27-2126       | 12 J(102)                  | 12 L(154)                  | 12 M(154)                  |
|                 | 13                 | 13 A(222) 2131             | 13 C(197) 6303             | 13 H(197) NOT TOOLED       | 13 J(102)                  | 13 L(154)                  | 13 M(154)                  |
|                 | 14                 | 14 A(222) 2141             | 14 C(197) 6304             | 14 H(197)                  | 14 J(102)                  | 14 L(154) NOT TOOLED       | 14 M(154)                  |
|                 | 15                 | 15 A(222) 2151             | 15 C(197) 6305             | 15 H(197)                  | 15 J(102)                  | 15 L(154) 38-00-1736       | 15 M(154)                  |
|                 | 16                 | AE-6410-2A(222) 22-27-2161 | AE-6410-2C(197) 38-00-6306 | AE-6410-2H(197) NOT TOOLED | AE-6410-2J(197) NOT TOOLED | AE-6410-2L(154) NOT TOOLED | AE-6410-2M(154) NOT TOOLED |



RIBS ADDED (4-16 CCTS. ONLY)  
ALTERNATIVE WAFER CONFIGURATION

|  |                                      |  |        |   |      |   |                        |                        |  |
|--|--------------------------------------|--|--------|---|------|---|------------------------|------------------------|--|
| SEE SHEET 1<br>EC NO: UCP2012-1821<br>DRAWN BY: CHKDKMSTROH<br>CHECKED BY: CHKDKMSTROH<br>APPROVED BY: CHKDKMSTROH<br>DATE: 2011/12/22<br>DATE: 2012/01/03<br>DATE: 2012/02/02 | QUALITY SYMBOLS<br>∇=0<br>∇=0<br>∇=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)<br>mm INCH |        | DIMENSION STYLE<br>MM/IN  |      | SCALE<br>4:1  | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION |  |
|  |                                      | 4 PLACES ± .010                                  | ± .004 | DRAWN BY  | DATE | TITLE<br>WAFER, FRICTION LOCK<br>KK (2.54)/.100 FOR<br>(0.64)/.025 SQ. PINS |                        |                        |  |
|  |                                      | 3 PLACES ± .025                                  | ± .014 | CHECKED BY  | DATE | MOLEX INCORPORATED  |                        |                        |  |
|  |                                      | 2 PLACES ± 0.35                                  | ± .014 | APPROVED BY   | DATE | MATERIAL NO. SDAE-6410-N<br>DOCUMENT NO. 2 OF 4                             |                        |                        |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN WITHIN DIMENSIONS  |                                      | SEE CHART  |        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |      |   |                        |                        |  |

| ENG. NO.        | AE-6410-NA (241)  | AE-6410-NC (241)               | AE-6410-NA (231)               | AE-6410-NS (241)               | AE-6410-NA (228)              |                                |
|-----------------|-------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------|--------------------------------|
| DIMN. "D"       | (7.50)<br>.295    | (7.14)<br>.281                 | (7.50)<br>.295                 | (7.50)<br>.295                 | (7.50)<br>.295                |                                |
| DIMN. "C"       | (14.22) / .560    | (20.32) / .800                 | (14.22) / .560                 | (16.51) / .650                 | (14.22) / .560                |                                |
| DIMN. "F"       | (3.56) / .140 REF | (10.00) / .394 REF             | (3.56) / .140 REF              | (5.84) / .230 REF              | (3.56) / .140 REF             |                                |
| DIMN. "G"       | (3.56) / .140     | (5.08) / .200                  | (3.56) / .140                  | (5.08) / .200                  | (3.56) / .140                 |                                |
| DIMN. "T"       | (3.43) / .135     | (5.08) / .200                  | (3.43) / .135                  | (5.08) / .200                  | (3.43) / .135                 |                                |
| PLATING         | 241               | 241                            | 231                            | 241                            | 228                           |                                |
| NO. OF CIRCUITS | 2                 | AE-6410-2A(241)<br>22-29-2021  | AE-6410-2C(241)<br>NOT TOOLED  | AE-6410-2A(231)<br>38-00-7250  | NOT TOOLED                    | AE-6410-2A(228)<br>38-00-7062  |
|                 | 3                 | 3 A(241) ↑ 2031                | 3 C(241) 38-00-5909            | 3 A(231) NOT TOOLED            | NOT TOOLED                    | 3 A(228) ↑ 7063                |
|                 | 4                 | 4 A(241) 2041                  | 4 C(241) NOT TOOLED            | 4 A(231) 38-00-7251            | AE-6410-4S(241)<br>38-00-7666 | 4 A ↑ 7064                     |
|                 | 5                 | 5 A(241) 2051                  | 5 C(241) ↑                     | 5 A(231) NOT TOOLED            | NOT TOOLED                    | 5 A ↑ 7065                     |
|                 | 6                 | 6 A(241) 2061                  | 6 C(241)                       | 6 A(231) ↑                     | 6 S(241) 38-00-7667           | 6 A ↑ 7066                     |
|                 | 7                 | 7 A(241) 2071                  | 7 C(241)                       | 7 A(231)                       | NOT TOOLED                    | 7 A ↓ 7067                     |
|                 | 8                 | 8 A(241) 2081                  | 8 C(241)                       | 8 A(231)                       | ↑                             | 8 A 38-00-7068                 |
|                 | 9                 | 9 A(241) 2091                  | 9 C(241)                       | 9 A(231)                       |                               | 9 A NOT TOOLED                 |
|                 | 10                | 10 A(241) 2101                 | 10 C(241)                      | 10 A(231)                      |                               | 10 A NOT TOOLED                |
|                 | 11                | 11 A(241) 2111                 | 11 C(241)                      | 11 A(231)                      |                               | 11 A NOT TOOLED                |
|                 | 12                | 12 A(241) 2121                 | 12 C(241)                      | 12 A(231)                      |                               | 12 A 38-00-7072                |
|                 | 13                | 13 A(241) 2131                 | 13 C(241)                      | 13 A(231)                      |                               | 13 A NOT TOOLED                |
|                 | 14                | 14 A(241) 2141                 | 14 C(241)                      | 14 A(231)                      |                               | 14 A 38-00-7074                |
|                 | 15                | 15 A(241) ↓ 2151               | 15 C(241) ↓                    | 15 A(231) ↓                    |                               | 15 A ↓ NOT TOOLED              |
|                 | 16                | AE-6410-16A(241)<br>22-29-2161 | AE-6410-16C(241)<br>NOT TOOLED | AE-6410-16A(231)<br>NOT TOOLED | NOT TOOLED                    | AE-6410-16A(228)<br>NOT TOOLED |

|   |                     |  |  |  |  |   |              |                        |  |
|---|---------------------|--|--|--|--|---|--------------|------------------------|--|
| <b>SEE SHEET 1</b><br>EC NO: UCP2072-1821<br>2011/12/22<br>DRAWN BY: DRWMS/ROH<br>2012/01/03<br>CHECKED BY: CHKDK/KIPPER<br>2012/02/02<br>APPROVED BY: APPR/SMT/H<br>DESCRIPTION: | QUALITY SYMBOLS<br> | GENERAL TOLERANCES (UNLESS SPECIFIED)  |  | DIMENSION STYLE  |  | SCALE   | DESIGN UNITS | THIRD ANGLE PROJECTION |  |
|   |                     |  |  | MM/IN  |  | 4:1   | METRIC       |                        |  |
|   |                     | 4 PLACES ± --- ± ---<br>3 PLACES ± --- ± .010<br>2 PLACES ± 0.25 ± .014<br>1 PLACE ± 0.35 ± ---<br>ANGULAR ± .5° |  | DRAWN BY: T. MAHON<br>DATE: 28/01/03<br>CHECKED BY: BMAGUIRE<br>DATE: 28/01/03<br>APPROVED BY: J DENNEHY<br>DATE: 2005/03/11 |  | TITLE: WAFER, FRICTION LOCK<br>KK (2.54)/.100 FOR<br>(0.64)/.025 SQ. PINS |              |                        |  |
|   |                     | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS   |  | SEE CHART<br>SIZE C  |  | MATERIAL NO. SDAE-6410-N<br>DOCUMENT NO.                                  |              | MOLEX INCORPORATED     |  |

VOIDED CIRCUIT OPTION

|              |                   |          |               |
|--------------|-------------------|----------|---------------|
| ENG. NO.     | AE-6410-NA(197)-* |          |               |
| DIM. D       | 7.50/.295         |          |               |
| DIM. C       | 14.22 /.560       |          |               |
| DIM. F (REF) | 3.56 /.140        |          |               |
| DIM. G       | N/A               |          |               |
| DIM. T       | OVERALL           |          |               |
| PLATING      | 197               |          |               |
| PART No.     | ENG No.           | CKT SIZE | VOID LOCATION |
| 38-00-7222   | AE-6410-3A(197)-2 | 3        | 2             |
| ↑ 4749       | ↑ -4A(197)-3      | 4        | 3             |
| 0611         | -5A(197)-3        | 5        | 3             |
| 0089         | -6A(197)-3        | 6        | 3             |
| 0090         | -6A(197)-51       | 6        | 3,4,5         |
| 5370         | -15A(197)-02      | 15       | 2             |
| ↓ 7688       | ↓ -12A(197)-09    | 12       | 9             |

| SEE SHEET 1<br>EC NO: UCP2012-1821<br>DRAWN BY: DRWINNSTRON 2011/12/22<br>CHECKED BY: CHKOAKLPPER 2012/01/03<br>APPR: SMITH 2012/02/02<br>REV: BC | QUALITY SYMBOLS  | GENERAL TOLERANCES (UNLESS SPECIFIED)   | DIMENSION STYLE | SCALE   | DESIGN UNITS        | THIRD ANGLE PROJECTION |        |        |          |        |        |          |        |        |         |        |        |       |     |        |  |
|---|--|---|-----------------|---|---------------------|------------------------|--------|--------|----------|--------|--------|----------|--------|--------|---------|--------|--------|-------|-----|--------|--|
|   | $\nabla=0$<br>$\nabla=0$<br>$\nabla=0$   | <table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> <tr> <td>4 PLACES</td> <td>± .---</td> <td>± .---</td> </tr> <tr> <td>3 PLACES</td> <td>± .---</td> <td>± .010</td> </tr> <tr> <td>2 PLACES</td> <td>± 0.25</td> <td>± .014</td> </tr> <tr> <td>1 PLACE</td> <td>± 0.35</td> <td>± .---</td> </tr> </table> |                 | mm  | INCH                | 4 PLACES               | ± .--- | ± .--- | 3 PLACES | ± .--- | ± .010 | 2 PLACES | ± 0.25 | ± .014 | 1 PLACE | ± 0.35 | ± .--- | MM/IN | 4:1 | METRIC |  |
|   |  | mm  | INCH            |   |                     |                        |        |        |          |        |        |          |        |        |         |        |        |       |     |        |  |
|   | 4 PLACES   | ± .---  | ± .---          |   |                     |                        |        |        |          |        |        |          |        |        |         |        |        |       |     |        |  |
| 3 PLACES  | ± .---   | ± .010  |                 |   |                     |                        |        |        |          |        |        |          |        |        |         |        |        |       |     |        |  |
| 2 PLACES  | ± 0.25   | ± .014  |                 |   |                     |                        |        |        |          |        |        |          |        |        |         |        |        |       |     |        |  |
| 1 PLACE   | ± 0.35   | ± .---  |                 |   |                     |                        |        |        |          |        |        |          |        |        |         |        |        |       |     |        |  |
| DESCRIPTION   | DRAWN BY: T. MAHON DATE: 28/01/03<br>CHECKED BY: BMAGUIRE DATE: 28/01/03<br>APPROVED BY: JDENNEHY DATE: 2005/03/11<br>MATERIAL NO. SEE CHART<br>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | TITLE   |                 | WAFER, FRICTION LOCK<br>KK (2.54)/.100 FOR<br>(0.64)/.025 SQ. PINS<br>MOLEX INCORPORATED<br>SDAE-6410-N | SHEET NO.<br>4 OF 4 |                        |        |        |          |        |        |          |        |        |         |        |        |       |     |        |  |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION                     |  |   |                 |   |                     |                        |        |        |          |        |        |          |        |        |         |        |        |       |     |        |  |