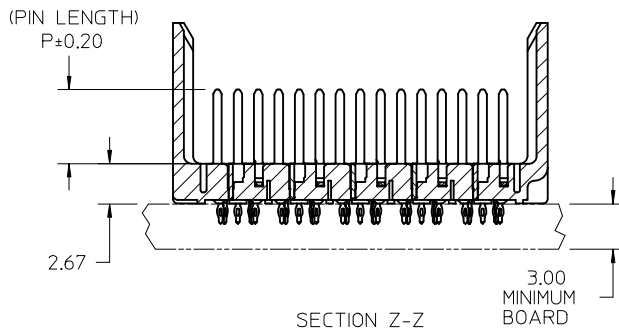
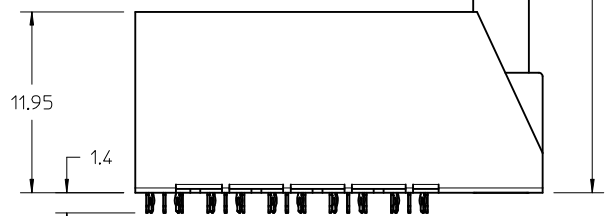
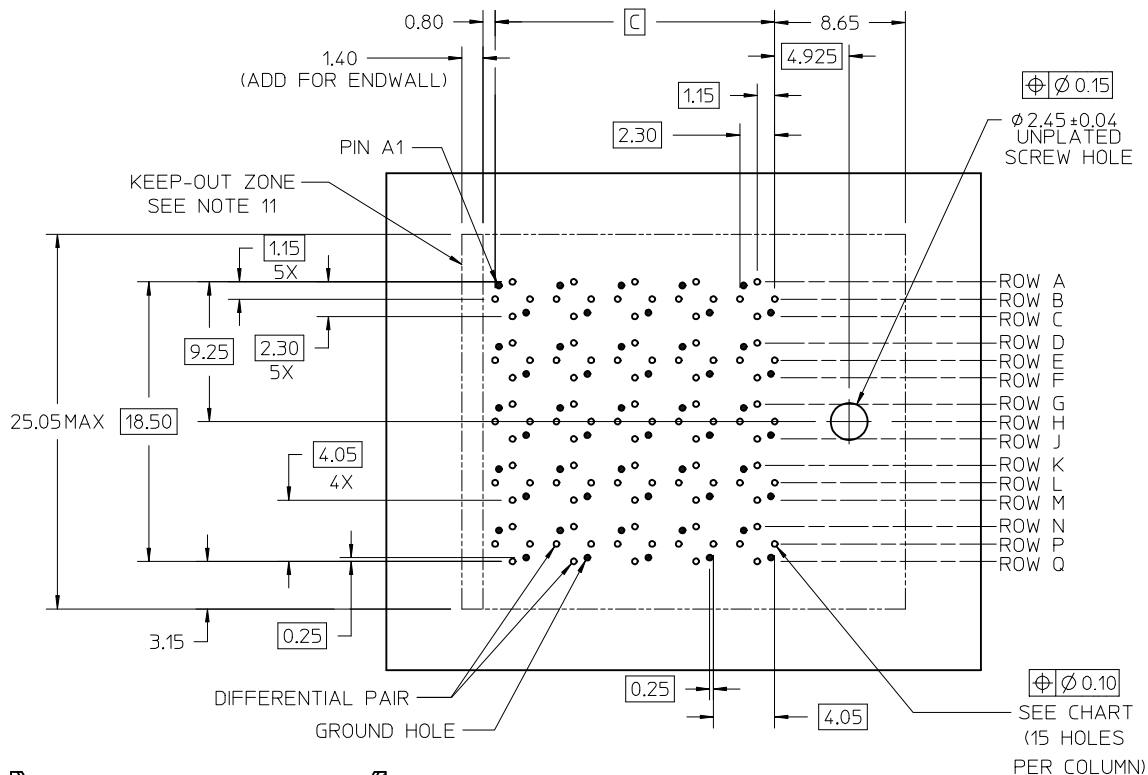
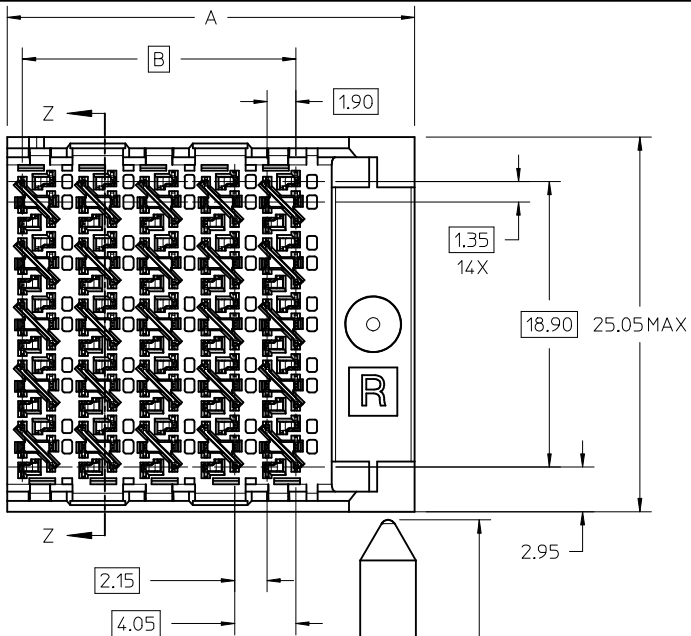
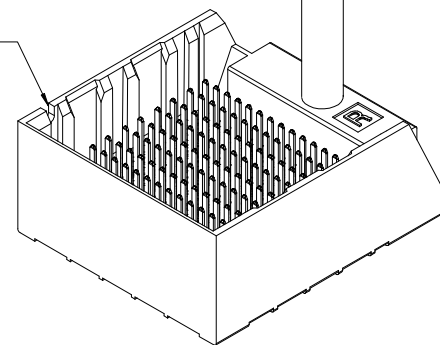




BACKPLANE HOLE PATTERN  
(CONNECTOR SIDE)

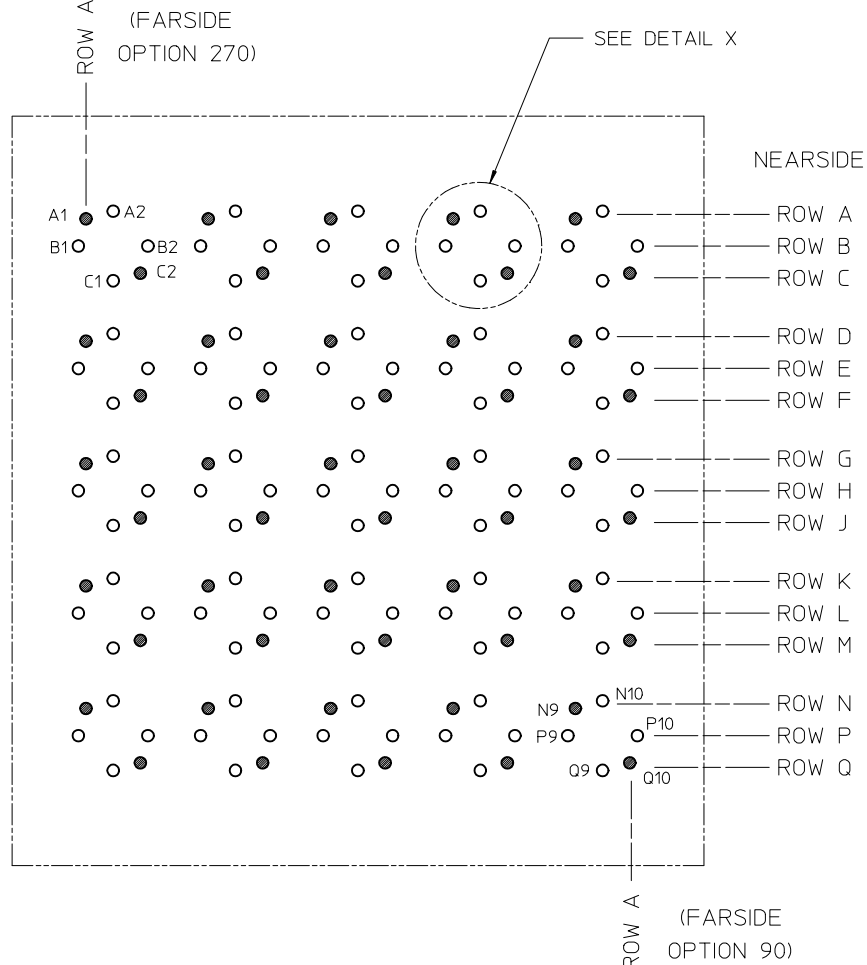
NOTCH  
DESIGNATES  
ROW A



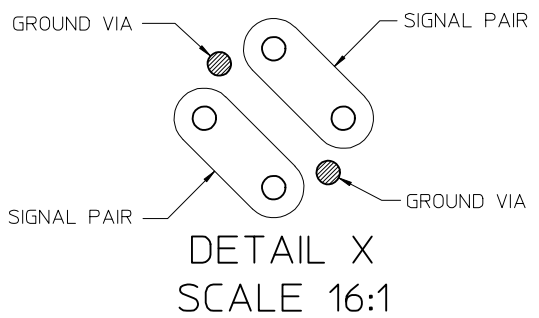
ENDWALL VERSION SHOWN

- NOTES:
1. MATERIALS: HOUSING - LIQUID CRYSTAL POLYMER (LCP)  
GLASS-FILLED, UL94V-0  
TERMINALS - HIGH PERFORMANCE COPPER ALLOY
  2. FINISH: 30μ MIN GOLD IN CONTACT AREA.  
SELECTIVE MATTE TIN (LEAD-FREE) ON PCB TAILS.  
NICKEL OVERALL.
  3. REFER TO MOLEX PRODUCT SPECIFICATION PS-76060-999  
FOR PERFORMANCE SPECIFICATIONS AND ADDITIONAL PCB INFORMATION.
  4. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF  
COSMETIC SPEC PS-45499-002.
  5. PRODUCT IS PACKAGED PER PK-70873-765.
  6. SEE SHEETS 2 THRU 4 FOR PART NUMBERS AND ORTHOGONAL PIN MAPPING.
  7. REFER TO MOLEX SALES DRAWING SD-76990-002 FOR THE MATING RECEPTACLES.
  8. REFER TO MOLEX ROUTING GUIDE AS-76850-990 FOR ADDITIONAL PCB LAYOUT  
AND ROUTING RECOMMENDATIONS.
  9. THE KEEP-OUT ZONE FOR THE PART LENGTH INCLUDES AN ADDITIONAL 1.0mm  
TO ACCOMMODATE FOR SPACE REQUIRED BY THE DAUGHTERCARD ASSEMBLY.
  10. CONNECTORS ARE SUPPLIED WITH A 2-56 UNC-2A CUSTOM SCREW.
  - 11.\*THESE DIMENSIONS REPRESENT THE AREA NEEDED TO ACCOMODATE CONNECTOR  
INSERTION AND REPAIR ON THE PC BOARD. THIS DOES NOT REPRESENT  
THE ACTUAL PERIMETER OF THE CONNECTOR.\*

|                                                                                                                    |                    |                                                                 |                                                            |                      |                            |                    |                                                                               |                        |                                                                                                              |                                                                                                                                  |  |        |
|--------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------|------------------------------------------------------------|----------------------|----------------------------|--------------------|-------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--|--------|
| INITIAL RELEASE<br>EC NO: UCP2014-2268<br>DRWN:ARIZV101 2013/03/05<br>CHKD:TELO 2013/11/22<br>APPR:TELO 2013/12/04 | DESCRIPTION<br>REV | QUALITY SYMBOLS<br><div>▽=0</div> <div>▽=0</div> <div>▽=0</div> | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |                      | DIMENSION STYLE<br>MM ONLY |                    | SCALE<br>4:1                                                                  | DESIGN UNITS<br>METRIC |  THIRD ANGLE PROJECTION |                                                                                                                                  |  |        |
|                                                                                                                    |                    |                                                                 | mm                                                         | INCH                 | DRAWN BY<br>ARIZV101       | DATE<br>2013/03/05 | TITLE<br>IMPACT 5 PAIR HEADER<br>ORTHOGONAL ASSEMBLY<br>GUIDE RIGHT SALES DWG |                        |                                                                                                              |                                                                                                                                  |  |        |
|                                                                                                                    |                    |                                                                 | 4 PLACES ± --- ± ---                                       | 3 PLACES ± --- ± --- | CHECKED BY<br>JMENDOZA     | DATE<br>2013/11/22 |                                                                               |                        |                                                                                                              |                                                                                                                                  |  |        |
|                                                                                                                    |                    |                                                                 | 2 PLACES ± 0.13 ± ---                                      | 1 PLACE ± 0.25 ± --- | APPROVED BY<br>TELO        | DATE<br>2013/12/04 |                                                                               |                        |                                                                                                              |                                                                                                                                  |  |        |
|                                                                                                                    |                    |                                                                 | 0 PLACE ± ±                                                | MATERIAL NO.         |                            | DOCUMENT NO.       |                                                                               |                        |                                                                                                              | SHEET NO.                                                                                                                        |  |        |
|                                                                                                                    |                    |                                                                 | ANGULAR ±1/2°                                              |                      | SEE CHART                  |                    |                                                                               |                        |                                                                                                              | SD-171884-0003                                                                                                                   |  | 1 OF 4 |
|                                                                                                                    |                    |                                                                 | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                      |                            |                    |                                                                               |                        |                                                                                                              | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |        |



MIDPLANE PCB LAYOUT  
SCALE 8:1



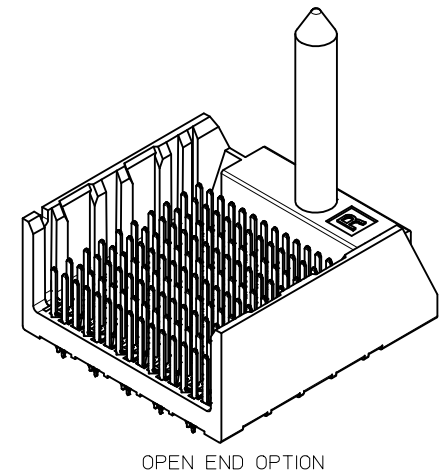
| MATERIAL NUMBER | # OF COLUMNS | # OF DIFF PAIR | MODULE TYPE  | DIM A | DIM B | DIM C |
|-----------------|--------------|----------------|--------------|-------|-------|-------|
| 171884-*80*     | 8            | 40             | NO ENDWALL   | 22.9  | 14.05 | 14.45 |
| 171884-*80*     | 8            | 40             | WITH ENDWALL | 24.3  | 14.05 | 14.45 |
| 171884-*10*     | 10           | 50             | NO ENDWALL   | 27.0  | 18.10 | 18.50 |
| 171884-*10*     | 10           | 50             | WITH ENDWALL | 28.4  | 18.10 | 18.50 |
| 171884-*20*     | 12           | 60             | NO ENDWALL   | 31.0  | 22.15 | 22.55 |
| 171884-*20*     | 12           | 60             | WITH ENDWALL | 32.4  | 22.15 | 22.55 |

171884-\*80\*

MODULE & TAIL PLATING TYPE  
5 = GUIDE RIGHT NO ENDWALL, TIN  
9 = GUIDE RIGHT ENDWALL, TIN

PIN LENGTH (P)  
4 = 4.90 (0.46 PTH)  
5 = 5.50 (0.46 PTH)  
7 = 4.90 (0.39 PTH)  
8 = 5.50 (0.39 PTH)

# OF COLUMNS  
8 = 8 COLUMNS  
1 = 10 COLUMNS  
2 = 12 COLUMNS



|                                                                                                                          |                                          |             |                                                            |        |                            |                                                                                                                                  |                     |                                                                                                   |                                                                                                              |                                |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------|------------------------------------------------------------|--------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------|
| SEE SHEET 1<br>EC NO: UCP2014-2268<br>DRWN:ARIZV101 2013/03/05<br>CHK'D:TELO 2013/11/22<br>APPR:TELO 2013/12/04<br><br>A | QUALITY SYMBOLS<br><br>▽=0<br>▽=0<br>▽=0 | DESCRIPTION | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |        | DIMENSION STYLE<br>MM ONLY |                                                                                                                                  | SCALE<br>3:1        | DESIGN UNITS<br>METRIC                                                                            |  THIRD ANGLE PROJECTION |                                |
|                                                                                                                          |                                          |             | 4 PLACES<br>3 PLACES<br>2 PLACES<br>1 PLACE<br>0 PLACE     | mm     | INCH                       | DRAWN BY<br>ARIZV101                                                                                                             | DATE<br>2013/03/05  | TITLE<br>IMPACT 5 PAIR HEADER<br>ORTHOGONAL ASSEMBLY<br>GUIDE RIGHT SALES DWG<br><br><b>molex</b> |                                                                                                              |                                |
|                                                                                                                          |                                          |             |                                                            | ± ---  | ± ---                      | CHECKED BY<br>JMENDOZA                                                                                                           | DATE<br>2013/11/22  |                                                                                                   |                                                                                                              |                                |
|                                                                                                                          |                                          |             |                                                            | ± 0.13 | ± ---                      | APPROVED BY<br>TELO                                                                                                              | DATE<br>2013/12/04  |                                                                                                   |                                                                                                              |                                |
|                                                                                                                          |                                          |             |                                                            | ± 0.25 | ± ---                      | MATERIAL NO.<br><br>SEE CHART                                                                                                    |                     |                                                                                                   |                                                                                                              |                                |
|                                                                                                                          |                                          |             |                                                            | ±      | ±                          |                                                                                                                                  |                     |                                                                                                   |                                                                                                              | DOCUMENT NO.<br>SD-171884-0003 |
|                                                                                                                          |                                          |             | ANGULAR ±1/2°                                              |        |                            |                                                                                                                                  | SHEET NO.<br>2 OF 4 |                                                                                                   |                                                                                                              |                                |
|                                                                                                                          |                                          |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        | SIZE<br>C                  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                     |                                                                                                   |                                                                                                              |                                |

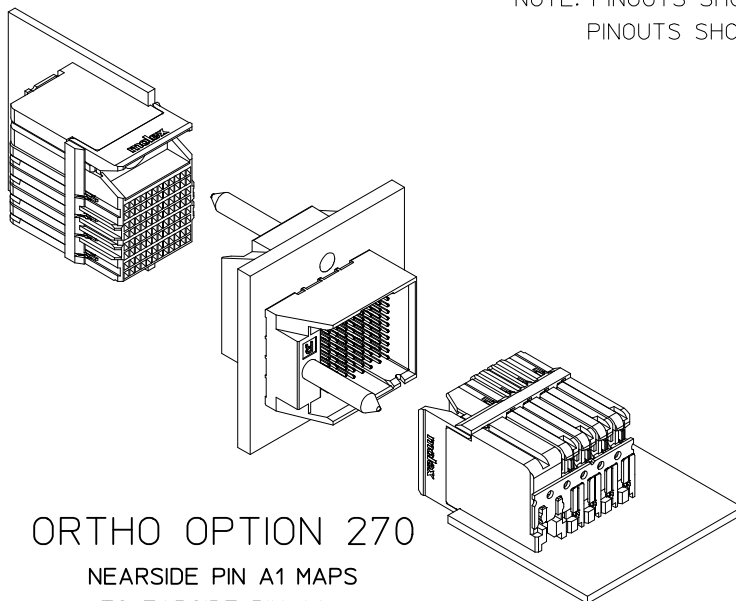
## ORTHO PIN MAPPING

OPTION 270 (NEAR SIDE - FAR SIDE)

|         |          |         |          |         |          |         |          |         |           |
|---------|----------|---------|----------|---------|----------|---------|----------|---------|-----------|
| (A1-A1) | A2-B1    | (A3-D1) | A4-E1    | (A5-G1) | A6-H1    | (A7-K1) | A8-L1    | (A9-N1) | A10-P1    |
| B1-A2   | B2-C1    | B3-D2   | B4-F1    | B5-G2   | B6-J1    | B7-K2   | B8-M1    | B9-N2   | B10-Q1    |
| C1-B2   | (C2-C2)  | C3-E2   | (C4-F2)  | C5-H2   | (C6-J2)  | C7-L2   | (C8-M2)  | C9-P2   | (C10-Q2)  |
| (D1-A3) | D2-B3    | (D3-D3) | D4-E3    | (D5-G3) | D6-H3    | (D7-K3) | D8-L3    | (D9-N3) | D10-P3    |
| E1-A4   | E2-C3    | E3-D4   | E4-F3    | E5-G4   | E6-J3    | E7-K4   | E8-M3    | E9-N4   | E10-Q3    |
| F1-B4   | (F2-C4)  | F3-E4   | (F4-F4)  | F5-H4   | (F6-J4)  | F7-L4   | (F8-M4)  | F9-P4   | (F10-Q4)  |
| (G1-A5) | G2-B5    | (G3-D5) | G4-E5    | (G5-G5) | G6-H5    | (G7-K5) | G8-L5    | (G9-N5) | G10-P5    |
| H1-A6   | H2-C5    | H3-D6   | H4-F5    | H5-G6   | H6-J5    | H7-K6   | H8-M5    | H9-N6   | H10-Q5    |
| J1-B6   | (J2-C6)  | J3-E6   | (J4-F6)  | J5-H6   | (J6-J6)  | J7-L6   | (J8-M6)  | J9-P6   | (J10-Q6)  |
| (K1-A7) | K2-B7    | (K3-D7) | K4-E7    | (K5-G7) | K6-H7    | (K7-K7) | K8-L7    | (K9-N7) | K10-P7    |
| L1-A8   | L2-C7    | L3-D8   | L4-F7    | L5-G8   | L6-J7    | L7-K8   | L8-M7    | L9-N8   | L10-Q7    |
| M1-B8   | (M2-C8)  | M3-E8   | (M4-F8)  | M5-H8   | (M6-J8)  | M7-L8   | (M8-M8)  | M9-P8   | (M10-Q8)  |
| (N1-A9) | N2-B9    | (N3-D9) | N4-E9    | (N5-G9) | N6-H9    | (N7-K9) | N8-L9    | (N9-N9) | N10-P9    |
| P1-A10  | P2-C9    | P3-D10  | P4-F9    | P5-G10  | P6-J9    | P7-K10  | P8-M9    | P9-N10  | P10-Q9    |
| Q1-B10  | (Q2-C10) | Q3-E10  | (Q4-F10) | Q5-H10  | (Q6-J10) | Q7-L10  | (Q8-M10) | Q9-P10  | (Q10-Q10) |

NOTE: PINOUTS SHOWN IN BALLOONS ARE GROUNDS.

PINOUTS SHOWN ARE FOR SQUARE (10 COLUMN) PATTERN ONLY.



ORTHO OPTION 270

NEARSIDE PIN A1 MAPS  
TO FAR SIDE PIN A1

|             |                     |  |  |            |             |                 |                                       |  |                                                            |                            |                                                                                                                                         |              |                                                                               |                                                                                                              |  |                |  |           |  |
|-------------|---------------------|--|--|------------|-------------|-----------------|---------------------------------------|--|------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--|----------------|--|-----------|--|
| SEE SHEET 1 | EC NO: UCP2014-2268 |  |  | 2013/03/05 | DESCRIPTION | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) |  |                                                            | DIMENSION STYLE<br>MM ONLY |                                                                                                                                         | SCALE<br>8:1 | DESIGN UNITS<br>METRIC                                                        |  THIRD ANGLE PROJECTION |  |                |  |           |  |
|             | DRW:ARIZV I01       |  |  | 2013/11/22 |             |                 | mm                                    |  | INCH                                                       |                            | DRAWN BY DATE<br>ARIZV I01 2013/03/05                                                                                                   |              | TITLE<br>IMPACT 5 PAIR HEADER<br>ORTHOGONAL ASSEMBLY<br>GUIDE RIGHT SALES DWG |                                                                                                              |  |                |  |           |  |
|             | CHKO:TELO           |  |  | 2013/12/04 |             |                 | 4 PLACES ± --- ± ---                  |  | 3 PLACES ± --- ± ---                                       |                            | CHECKED BY DATE<br>JMENDOZA 2013/11/22                                                                                                  |              | molex                                                                         |                                                                                                              |  |                |  |           |  |
|             | APPR:TELO           |  |  |            |             |                 | 2 PLACES ± 0.13 ± ---                 |  | 2 PLACES ± 0.13 ± ---                                      |                            | APPROVED BY DATE<br>TELO 2013/12/04                                                                                                     |              |                                                                               |                                                                                                              |  |                |  |           |  |
|             |                     |  |  |            |             |                 | 1 PLACE ± 0.25 ± ---                  |  | 0 PLACE ± ±                                                |                            | MATERIAL NO.                                                                                                                            |              |                                                                               |                                                                                                              |  | DOCUMENT NO.   |  | SHEET NO. |  |
|             |                     |  |  |            |             |                 | ANGULAR ±1/2°                         |  | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                            | SIZE C THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |              |                                                                               |                                                                                                              |  | SD-171884-0003 |  | 3 OF 4    |  |
|             |                     |  |  |            |             |                 |                                       |  |                                                            |                            |                                                                                                                                         |              |                                                                               |                                                                                                              |  |                |  |           |  |
|             |                     |  |  |            |             |                 |                                       |  |                                                            |                            |                                                                                                                                         |              |                                                                               |                                                                                                              |  |                |  |           |  |
|             |                     |  |  |            |             |                 |                                       |  |                                                            |                            |                                                                                                                                         |              |                                                                               |                                                                                                              |  |                |  |           |  |
|             |                     |  |  |            |             |                 |                                       |  |                                                            |                            |                                                                                                                                         |              |                                                                               |                                                                                                              |  |                |  |           |  |
|             |                     |  |  |            |             |                 |                                       |  |                                                            |                            |                                                                                                                                         |              |                                                                               |                                                                                                              |  |                |  |           |  |
|             |                     |  |  |            |             |                 |                                       |  |                                                            |                            |                                                                                                                                         |              |                                                                               |                                                                                                              |  |                |  |           |  |

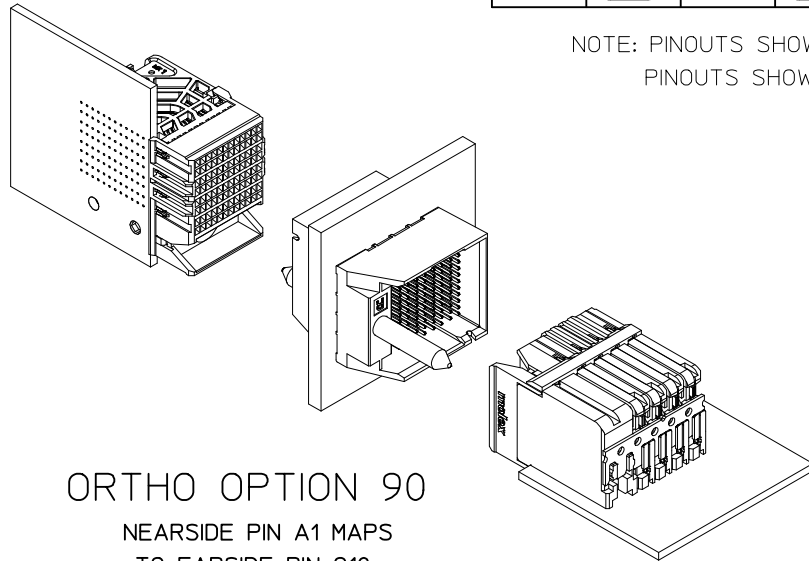
## ORTHO PIN MAPPING

## OPTION 90 (NEAR SIDE - FAR SIDE)

|        |        |        |        |        |        |        |        |        |         |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| A1-Q10 | A2-P10 | A3-M10 | A4-L10 | A5-J10 | A6-H10 | A7-F10 | A8-E10 | A9-C10 | A10-B10 |
| B1-Q9  | B2-N10 | B3-M9  | B4-K10 | B5-J9  | B6-G10 | B7-F9  | B8-D10 | B9-C9  | B10-A10 |
| C1-P9  | C2-N9  | C3-L9  | C4-K9  | C5-H9  | C6-G9  | C7-E9  | C8-D9  | C9-B9  | C10-A9  |
| D1-Q8  | D2-P8  | D3-M8  | D4-L8  | D5-J8  | D6-H8  | D7-F8  | D8-E8  | D9-C8  | D10-B8  |
| E1-Q7  | E2-N8  | E3-M7  | E4-K8  | E5-J7  | E6-G8  | E7-F7  | E8-D8  | E9-C7  | E10-A8  |
| F1-P7  | F2-N7  | F3-L7  | F4-K7  | F5-H7  | F6-G7  | F7-E7  | F8-D7  | F9-B7  | F10-A7  |
| G1-Q6  | G2-P6  | G3-M6  | G4-L6  | G5-J6  | G6-H6  | G7-F6  | G8-E6  | G9-C6  | G10-B6  |
| H1-Q5  | H2-N6  | H3-M5  | H4-K6  | H5-J5  | H6-G6  | H7-F5  | H8-D6  | H9-C5  | H10-A6  |
| J1-P5  | J2-N5  | J3-L5  | J4-K5  | J5-H5  | J6-G5  | J7-E5  | J8-D5  | J9-B5  | J10-A5  |
| K1-Q4  | K2-P4  | K3-M4  | K4-L4  | K5-J4  | K6-H4  | K7-F4  | K8-E4  | K9-C4  | K10-B4  |
| L1-Q3  | L2-N4  | L3-M3  | L4-K4  | L5-J3  | L6-G4  | L7-F3  | L8-D4  | L9-C3  | L10-A4  |
| M1-P3  | M2-N3  | M3-L3  | M4-K3  | M5-H3  | M6-G3  | M7-E3  | M8-D3  | M9-B3  | M10-A3  |
| N1-Q2  | N2-P2  | N3-M2  | N4-L2  | N5-J2  | N6-H2  | N7-F2  | N8-E2  | N9-C2  | N10-B2  |
| P1-Q1  | P2-N2  | P3-M1  | P4-K2  | P5-J1  | P6-G2  | P7-F1  | P8-D2  | P9-C1  | P10-A2  |
| Q1-P1  | Q2-N1  | Q3-L1  | Q4-K1  | Q5-H1  | Q6-G1  | Q7-E1  | Q8-D1  | Q9-B1  | Q10-A1  |

NOTE: PINOUTS SHOWN IN BALLOONS ARE GROUNDS.

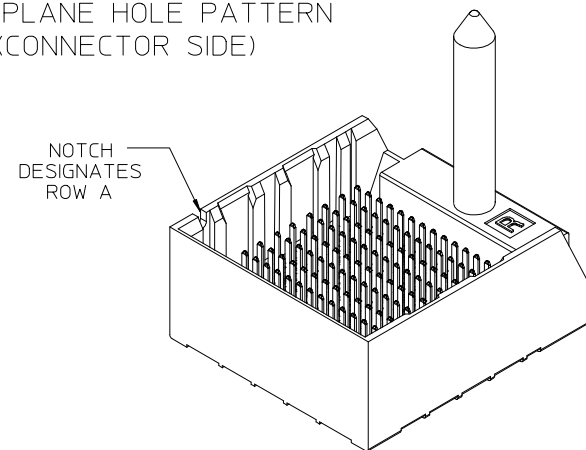
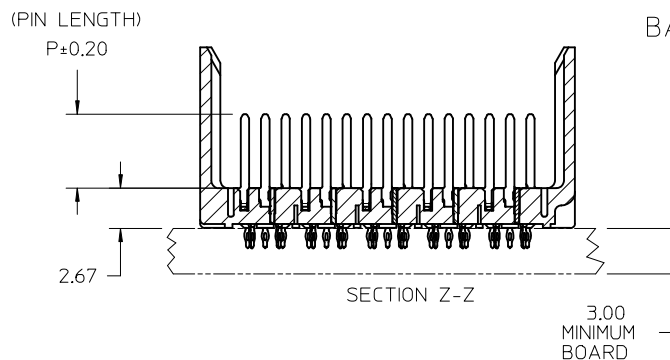
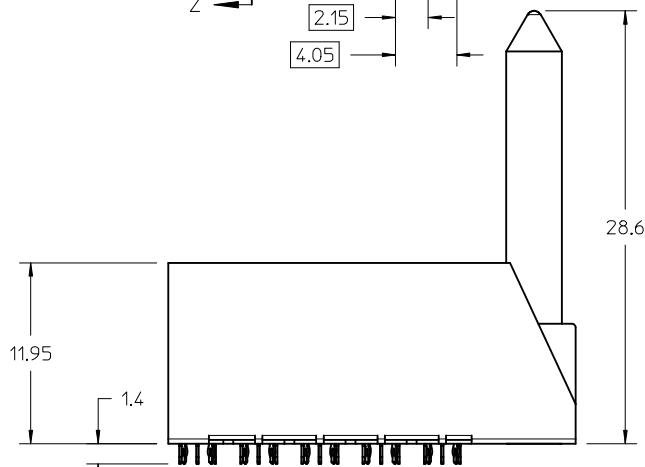
PINOUTS SHOWN ARE FOR SQUARE (10 COLUMN) PATTERNS ONLY.



## ORTHO OPTION 90

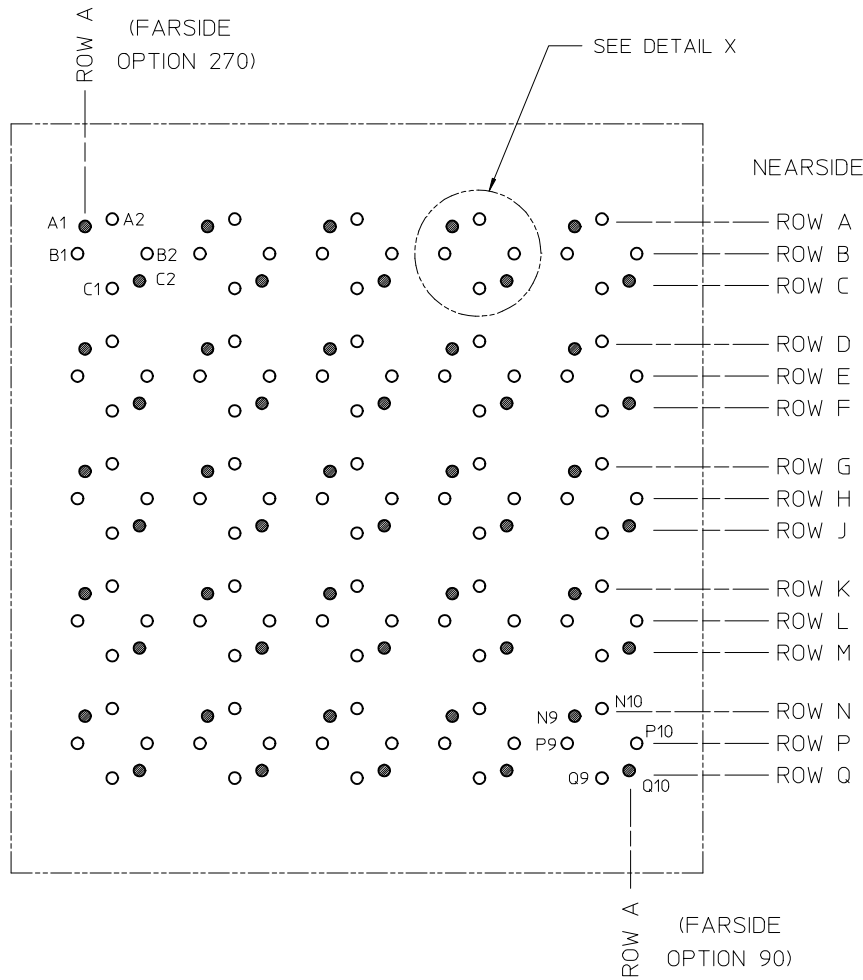
NEAR SIDE PIN A1 MAPS  
TO FAR SIDE PIN Q10  
(FOR SQUARE PATTERN)

|                                                                                 |                         |                                      |                                                            |        |       |                                                                                                                                            |                    |                                                                                                   |                        |                           |  |  |                     |
|---------------------------------------------------------------------------------|-------------------------|--------------------------------------|------------------------------------------------------------|--------|-------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------|------------------------|---------------------------|--|--|---------------------|
| SEE SHEET 1<br>EC NO: UCP2014-2268<br>DRW: ARIZV101<br>CHKD: TELO<br>APPR: TELO | DESCRIPTION<br>REV<br>A | QUALITY SYMBOLS<br>▽=0<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |        |       | DIMENSION STYLE<br>MM ONLY                                                                                                                 |                    | SCALE<br>4:1                                                                                      | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |  |  |                     |
|                                                                                 |                         |                                      | 4 PLACES<br>3 PLACES<br>2 PLACES<br>1 PLACE<br>0 PLACE     | mm     | INCH  | DRAWN BY<br>ARIZV101                                                                                                                       | DATE<br>2013/03/05 | TITLE<br>IMPACT 5 PAIR HEADER<br>ORTHOGONAL ASSEMBLY<br>GUIDE RIGHT SALES DWG<br><br><b>molex</b> |                        |                           |  |  |                     |
|                                                                                 |                         |                                      |                                                            | ± ---  | ± --- | CHECKED BY<br>JMENDOZA                                                                                                                     | DATE<br>2013/11/22 |                                                                                                   |                        |                           |  |  |                     |
|                                                                                 |                         |                                      |                                                            | ± 0.13 | ± --- | APPROVED BY<br>TELO                                                                                                                        | DATE<br>2013/12/04 |                                                                                                   |                        |                           |  |  |                     |
|                                                                                 |                         |                                      |                                                            | ± 0.25 | ± --- | MATERIAL NO.<br>DOCUMENT NO.<br>SD-171884-0003                                                                                             |                    |                                                                                                   |                        |                           |  |  | SHEET NO.<br>4 OF 4 |
|                                                                                 |                         |                                      |                                                            | ±      | ±     |                                                                                                                                            |                    |                                                                                                   |                        |                           |  |  |                     |
|                                                                                 |                         |                                      | ANGULAR ±1/2°                                              |        |       | SEE CHART                                                                                                                                  |                    |                                                                                                   |                        |                           |  |  |                     |
|                                                                                 |                         |                                      | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        |       | SIZE C<br>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                    |                                                                                                   |                        |                           |  |  |                     |



1. MATERIALS: HOUSING - LIQUID CRYSTAL POLYMER (LCP)  
GLASS-FILLED, UL94V-0
2. FINISH: 30μ MIN GOLD IN CONTACT AREA.  
SELECTIVE TIN OR TIN-LEAD ON PCB TAILS.  
NICKEL OVERALL.
3. REFER TO MOLEX PRODUCT SPECIFICATION PS-76060-999  
FOR PERFORMANCE SPECIFICATIONS AND ADDITIONAL PCB INFORMATION.
4. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF  
COSMETIC SPEC PS-45499-002.
5. PRODUCT IS PACKAGED PER PK-70873-765.
6. SEE SHEETS 2 THRU 4 FOR PART NUMBERS AND ORTHOGONAL PIN MAPPING.
7. REFER TO MOLEX SALES DRAWING SD-76990-002 FOR THE MATING RECEPTACLES.
8. REFER TO MOLEX ROUTING GUIDE AS-76850-990 FOR ADDITIONAL PCB LAYOUT  
AND ROUTING RECOMMENDATIONS.
9. THE KEEP-OUT ZONE FOR THE PART LENGTH INCLUDES AN ADDITIONAL 1.0mm  
TO ACCOMMODATE FOR SPACE REQUIRED BY THE DAUGHTERCARD ASSEMBLY.
10. CONNECTORS ARE SUPPLIED WITH A 2-56 UNC-2A SCREW.
- 11.\*THESE DIMENSIONS REPRESENT THE AREA NEEDED TO ACCOMODATE CONNECTOR  
INSERTION AND REPAIR ON THE PC BOARD. THIS DOES NOT REPRESENT  
THE ACTUAL PERIMETER OF THE CONNECTOR.\*

|                                                                                                       |             |                                                                                          |                                                                                          |                                                                                          |                                                                                   |                                                                          |                                                                                                                               |                                                                                 |                           |  |  |
|-------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------|--|--|
| UPDATED VIEWS<br>EC NO: UCP2014-2698<br>FORMNARI ZVI 01 2013/04/02<br>CHKD:<br>APPR: TELO 2015/03/124 | DESCRIPTION | QUALITY SYMBOLS                                                                          | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                    |                                                                                          | DIMENSION STYLE<br>MM ONLY                                                        |                                                                          | SCALE<br>4:1                                                                                                                  | DESIGN UNITS<br>METRIC                                                          | THIRD ANGLE<br>PROJECTION |  |  |
|                                                                                                       |             |  =0 |  =0 |  =0 | <div>mm</div> <div>INCH</div>                                                     | <div>DRAWN BY</div> <div>JLAURX</div> <div>DATE</div> <div>4/28/09</div> | <div>TITLE</div> <div>IMPACT 5 PAIR HEADER<br/>ORTHOGONAL ASSEMBLY<br/>GUIDE RIGHT SALES DWG</div>                            |                                                                                 |                           |  |  |
|                                                                                                       |             |                                                                                          | <div>4 PLACES</div> <div>± ---</div> <div>± ---</div>                                    | <div>3 PLACES</div> <div>± ---</div> <div>± ---</div>                                    | <div>2 PLACES</div> <div>± 0.13</div> <div>± ---</div>                            | <div>1 PLACE</div> <div>± 0.25</div> <div>± ---</div>                    | <div>0 PLACE</div> <div>±</div> <div>±</div>                                                                                  | <div>CHECKED BY</div> <div>JMENDOZA</div> <div>DATE</div> <div>2010/01/13</div> | <div>molex</div>          |  |  |
|                                                                                                       |             |                                                                                          | <div>ANGULAR</div> <div>± 1/2°</div>                                                     | <div>DRAFT WHERE APPLICABLE</div> <div>MUST REMAIN</div> <div>WITHIN DIMENSIONS</div>    | <div>APPROVED BY</div> <div>JB INGHAM</div> <div>DATE</div> <div>2010/01/14</div> | <div>MATERIAL NO.</div>                                                  | <div>DOCUMENT NO.</div> <div>SD-76985-003</div>                                                                               | <div>SHEET NO.</div> <div>1 OF 4</div>                                          |                           |  |  |
|                                                                                                       |             | REV                                                                                      |                                                                                          |                                                                                          |                                                                                   |                                                                          |                                                                                                                               | SEE CHART                                                                       |                           |  |  |
|                                                                                                       |             |                                                                                          |                                                                                          |                                                                                          |                                                                                   | SIZE C                                                                   | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                                 |                           |  |  |



| MATERIAL NUMBER | # OF COLUMNS | # OF DIFF PAIR | MODULE TYPE  | DIM A | DIM B | DIM C |
|-----------------|--------------|----------------|--------------|-------|-------|-------|
| 76985-*80*      | 8            | 40             | NO ENDWALL   | 22.9  | 14.05 | 14.45 |
| 76985-*80*      | 8            | 40             | WITH ENDWALL | 24.3  | 14.05 | 14.45 |
| 76985-*10*      | 10           | 50             | NO ENDWALL   | 27.0  | 18.10 | 18.50 |
| 76985-*10*      | 10           | 50             | WITH ENDWALL | 28.4  | 18.10 | 18.50 |
| 76985-*20*      | 12           | 60             | NO ENDWALL   | 31.0  | 22.15 | 22.55 |
| 76985-*20*      | 12           | 60             | WITH ENDWALL | 32.4  | 22.15 | 22.55 |

76985-\*80\*

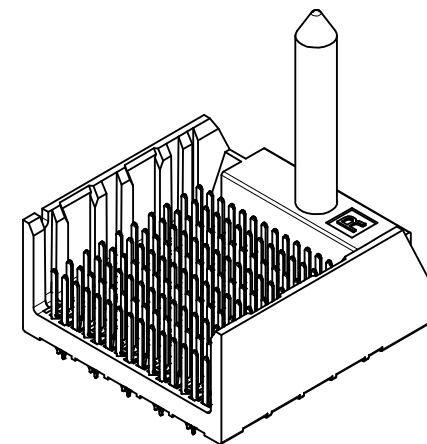
MODULE & TAIL PLATING TYPE

4 = GUIDE RIGHT NO ENDWALL, TIN/LEAD  
 5 = GUIDE RIGHT NO ENDWALL, TIN  
 8 = GUIDE RIGHT ENDWALL, TIN/LEAD  
 9 = GUIDE RIGHT ENDWALL, TIN

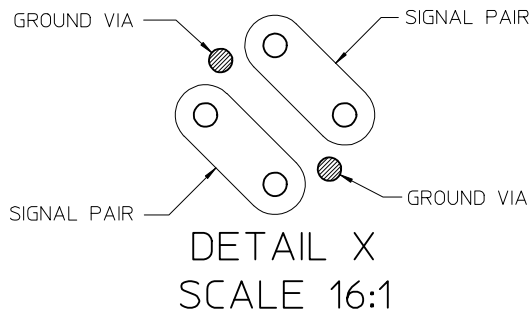
PIN LENGTH (P)  
 4 = 4.90 (0.46 PTH)  
 5 = 5.50 (0.46 PTH)  
 7 = 4.90 (0.39 PTH)  
 8 = 5.50 (0.39 PTH)

# OF COLUMNS

8 = 8 COLUMNS  
 1 = 10 COLUMNS  
 2 = 12 COLUMNS



OPEN END OPTION



|                                                                                         |     |             |                 |                                       |  |  |                                                                                                                               |  |                    |                        |                           |                                                                                                   |                              |                     |  |
|-----------------------------------------------------------------------------------------|-----|-------------|-----------------|---------------------------------------|--|--|-------------------------------------------------------------------------------------------------------------------------------|--|--------------------|------------------------|---------------------------|---------------------------------------------------------------------------------------------------|------------------------------|---------------------|--|
| SEE SHEET 1<br>EC NO: UCP2014-2698<br>DRAWN BY: JLAURX<br>CHKD: JMENDOZA<br>APPR: TELLO | REV | DESCRIPTION | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) |  |  | DIMENSION STYLE<br>MM ONLY                                                                                                    |  | SCALE<br>3:1       | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION | TITLE<br>IMPACT 5 PAIR HEADER<br>ORTHOGONAL ASSEMBLY<br>GUIDE RIGHT SALES DWG<br><br><b>molex</b> | DOCUMENT NO.<br>SD-76985-003 | SHEET NO.<br>2 OF 4 |  |
|                                                                                         |     |             |                 |                                       |  |  | DRAWN BY<br>JLAURX                                                                                                            |  | DATE<br>4/28/09    |                        |                           |                                                                                                   |                              |                     |  |
|                                                                                         |     |             |                 |                                       |  |  | CHECKED BY<br>JMENDOZA                                                                                                        |  | DATE<br>2010/01/13 |                        |                           |                                                                                                   |                              |                     |  |
|                                                                                         |     |             |                 |                                       |  |  | APPROVED BY<br>JB INGHAM                                                                                                      |  | DATE<br>2010/01/14 |                        |                           |                                                                                                   |                              |                     |  |
|                                                                                         |     |             |                 |                                       |  |  | MATERIAL NO.                                                                                                                  |  |                    |                        |                           |                                                                                                   |                              |                     |  |
|                                                                                         |     |             |                 |                                       |  |  | SEE CHART                                                                                                                     |  |                    |                        |                           |                                                                                                   |                              |                     |  |
|                                                                                         |     |             |                 |                                       |  |  | SIZE                                                                                                                          |  |                    |                        |                           |                                                                                                   |                              |                     |  |
|                                                                                         |     |             |                 |                                       |  |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |                    |                        |                           |                                                                                                   |                              |                     |  |
|                                                                                         |     |             |                 |                                       |  |  |                                                                                                                               |  |                    |                        |                           |                                                                                                   |                              |                     |  |
|                                                                                         |     |             |                 |                                       |  |  |                                                                                                                               |  |                    |                        |                           |                                                                                                   |                              |                     |  |

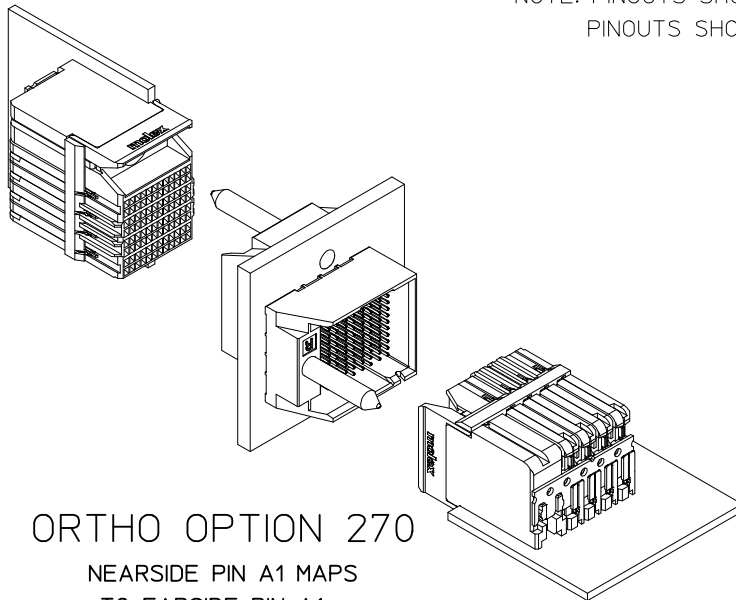
ORTHO PIN MAPPING

OPTION 270 (NEARSIDE - FAR SIDE)

|        |        |        |        |        |        |        |        |        |         |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| A1-A1  | A2-B1  | A3-D1  | A4-E1  | A5-G1  | A6-H1  | A7-K1  | A8-L1  | A9-N1  | A10-P1  |
| B1-A2  | B2-C1  | B3-D2  | B4-F1  | B5-G2  | B6-J1  | B7-K2  | B8-M1  | B9-N2  | B10-Q1  |
| C1-B2  | C2-C2  | C3-E2  | C4-F2  | C5-H2  | C6-J2  | C7-L2  | C8-M2  | C9-P2  | C10-Q2  |
| D1-A3  | D2-B3  | D3-D3  | D4-E3  | D5-G3  | D6-H3  | D7-K3  | D8-L3  | D9-N3  | D10-P3  |
| E1-A4  | E2-C3  | E3-D4  | E4-F3  | E5-G4  | E6-J3  | E7-K4  | E8-M3  | E9-N4  | E10-Q3  |
| F1-B4  | F2-C4  | F3-E4  | F4-F4  | F5-H4  | F6-J4  | F7-L4  | F8-M4  | F9-P4  | F10-Q4  |
| G1-A5  | G2-B5  | G3-D5  | G4-E5  | G5-G5  | G6-H5  | G7-K5  | G8-L5  | G9-N5  | G10-P5  |
| H1-A6  | H2-C5  | H3-D6  | H4-F5  | H5-G6  | H6-J5  | H7-K6  | H8-M5  | H9-N6  | H10-Q5  |
| J1-B6  | J2-C6  | J3-E6  | J4-F6  | J5-H6  | J6-J6  | J7-L6  | J8-M6  | J9-P6  | J10-Q6  |
| K1-A7  | K2-B7  | K3-D7  | K4-E7  | K5-G7  | K6-H7  | K7-K7  | K8-L7  | K9-N7  | K10-P7  |
| L1-A8  | L2-C7  | L3-D8  | L4-F7  | L5-G8  | L6-J7  | L7-K8  | L8-M7  | L9-N8  | L10-Q7  |
| M1-B8  | M2-C8  | M3-E8  | M4-F8  | M5-H8  | M6-J8  | M7-L8  | M8-M8  | M9-P8  | M10-Q8  |
| N1-A9  | N2-B9  | N3-D9  | N4-E9  | N5-G9  | N6-H9  | N7-K9  | N8-L9  | N9-N9  | N10-P9  |
| P1-A10 | P2-C9  | P3-D10 | P4-F9  | P5-G10 | P6-J9  | P7-K10 | P8-M9  | P9-N10 | P10-Q9  |
| Q1-B10 | Q2-C10 | Q3-E10 | Q4-F10 | Q5-H10 | Q6-J10 | Q7-L10 | Q8-M10 | Q9-P10 | Q10-Q10 |

NOTE: PINOUTS SHOWN IN BALLOONS ARE GROUNDS.

PINOUTS SHOWN ARE FOR SQUARE (10 COLUMN) PATTERN ONLY.



ORTHO OPTION 270

NEARSIDE PIN A1 MAPS  
TO FAR SIDE PIN A1

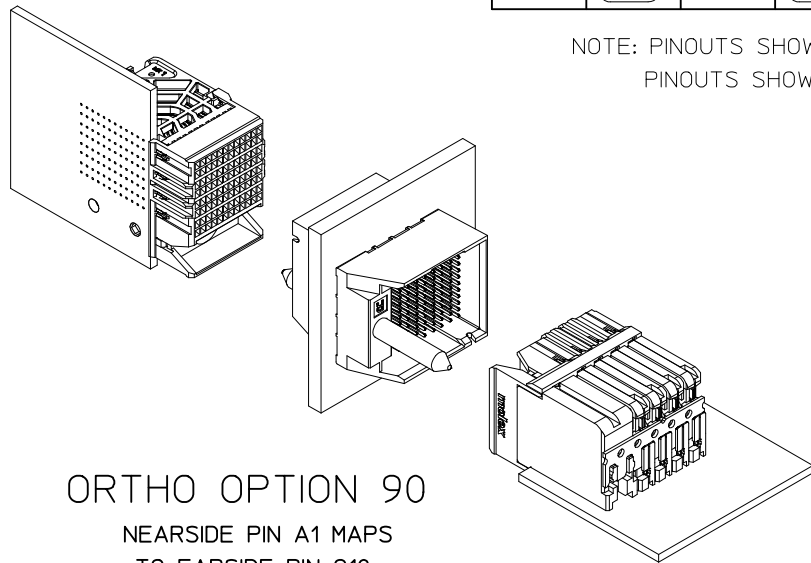
|                                                                                                  |             |                                                                 |                                       |        |                            |                          |                    |                                                                                                                               |                           |  |  |  |              |  |           |  |
|--------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------|---------------------------------------|--------|----------------------------|--------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------|--|--|--|--------------|--|-----------|--|
| SEE SHEET 1<br>EC NO: UCP2014-2698<br>DRWN: RIZV101 2013/04/02<br>CHKD:<br>APPR: TELO 2015/03/24 | DESCRIPTION | QUALITY SYMBOLS<br><div>▽=0</div> <div>▽=0</div> <div>▽=0</div> | GENERAL TOLERANCES (UNLESS SPECIFIED) |        | DIMENSION STYLE<br>MM ONLY |                          | SCALE<br>8:1       | DESIGN UNITS<br>METRIC                                                                                                        | THIRD ANGLE<br>PROJECTION |  |  |  |              |  |           |  |
|                                                                                                  |             |                                                                 |                                       | mm     | INCH                       | DRAWN BY<br>JLAURX       | DATE<br>4/28/09    | TITLE<br>IMPACT 5 PAIR HEADER<br>ORTHOGONAL ASSEMBLY<br>GUIDE RIGHT SALES DWG                                                 |                           |  |  |  |              |  |           |  |
|                                                                                                  |             |                                                                 | 4 PLACES                              | ± ---  | ± ---                      | CHECKED BY<br>JMENDOZA   | DATE<br>2010/01/13 |                                                                                                                               |                           |  |  |  |              |  |           |  |
|                                                                                                  |             |                                                                 | 3 PLACES                              | ± ---  | ± ---                      | APPROVED BY<br>JB INGHAM | DATE<br>2010/01/14 | molex                                                                                                                         |                           |  |  |  |              |  |           |  |
|                                                                                                  |             |                                                                 | 2 PLACES                              | ± 0.13 | ± ---                      | MATERIAL NO.             |                    |                                                                                                                               |                           |  |  |  | DOCUMENT NO. |  | SHEET NO. |  |
|                                                                                                  |             |                                                                 | 1 PLACE                               | ± 0.25 | ± ---                      | SEE CHART                |                    |                                                                                                                               |                           |  |  |  | SD-76985-003 |  | 3 OF 4    |  |
|                                                                                                  |             |                                                                 | 0 PLACE                               | ±      | ±                          | SIZE<br>C                |                    | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                           |  |  |  |              |  |           |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                       |             |                                                                 |                                       |        |                            |                          |                    |                                                                                                                               |                           |  |  |  |              |  |           |  |

ORTHO PIN MAPPING

OPTION 90 (NEAR SIDE - FAR SIDE)

|        |        |        |        |        |        |        |        |        |         |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| A1-Q10 | A2-P10 | A3-M10 | A4-L10 | A5-J10 | A6-H10 | A7-F10 | A8-E10 | A9-C10 | A10-B10 |
| B1-Q9  | B2-N10 | B3-M9  | B4-K10 | B5-J9  | B6-G10 | B7-F9  | B8-D10 | B9-C9  | B10-A10 |
| C1-P9  | C2-N9  | C3-L9  | C4-K9  | C5-H9  | C6-G9  | C7-E9  | C8-D9  | C9-B9  | C10-A9  |
| D1-Q8  | D2-P8  | D3-M8  | D4-L8  | D5-J8  | D6-H8  | D7-F8  | D8-E8  | D9-C8  | D10-B8  |
| E1-Q7  | E2-N8  | E3-M7  | E4-K8  | E5-J7  | E6-G8  | E7-F7  | E8-D8  | E9-C7  | E10-A8  |
| F1-P7  | F2-N7  | F3-L7  | F4-K7  | F5-H7  | F6-G7  | F7-E7  | F8-D7  | F9-B7  | F10-A7  |
| G1-Q6  | G2-P6  | G3-M6  | G4-L6  | G5-J6  | G6-H6  | G7-F6  | G8-E6  | G9-C6  | G10-B6  |
| H1-Q5  | H2-N6  | H3-M5  | H4-K6  | H5-J5  | H6-G6  | H7-F5  | H8-D6  | H9-C5  | H10-A6  |
| J1-P5  | J2-N5  | J3-L5  | J4-K5  | J5-H5  | J6-G5  | J7-E5  | J8-D5  | J9-B5  | J10-A5  |
| K1-Q4  | K2-P4  | K3-M4  | K4-L4  | K5-J4  | K6-H4  | K7-F4  | K8-E4  | K9-C4  | K10-B4  |
| L1-Q3  | L2-N4  | L3-M3  | L4-K4  | L5-J3  | L6-G4  | L7-F3  | L8-D4  | L9-C3  | L10-A4  |
| M1-P3  | M2-N3  | M3-L3  | M4-K3  | M5-H3  | M6-G3  | M7-E3  | M8-D3  | M9-B3  | M10-A3  |
| N1-Q2  | N2-P2  | N3-M2  | N4-L2  | N5-J2  | N6-H2  | N7-F2  | N8-E2  | N9-C2  | N10-B2  |
| P1-Q1  | P2-N2  | P3-M1  | P4-K2  | P5-J1  | P6-G2  | P7-F1  | P8-D2  | P9-C1  | P10-A2  |
| Q1-P1  | Q2-N1  | Q3-L1  | Q4-K1  | Q5-H1  | Q6-G1  | Q7-E1  | Q8-D1  | Q9-B1  | Q10-A1  |

NOTE: PINOUTS SHOWN IN BALLOONS ARE GROUNDS.  
PINOUTS SHOWN ARE FOR SQUARE (10 COLUMN) PATTERNS ONLY.



ORTHO OPTION 90

NEAR SIDE PIN A1 MAPS  
TO FAR SIDE PIN Q10  
(FOR SQUARE PATTERN)

|                                                                                                  |                                                            |                                                        |                                                            |                            |                                                                                                                                  |                    |                                                                               |                           |  |  |              |  |           |
|--------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------|---------------------------|--|--|--------------|--|-----------|
| SEE SHEET 1<br>EC NO: UCP2014-2698<br>DRWN: RIZV101 2013/04/02<br>CHKD:<br>APPR: TEL0 2015/03/24 | REV<br>DESCRIPTION<br>QUALITY SYMBOLS<br>▽=0<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                  |                                                            | DIMENSION STYLE<br>MM ONLY |                                                                                                                                  | SCALE<br>4:1       | DESIGN UNITS<br>METRIC                                                        | THIRD ANGLE<br>PROJECTION |  |  |              |  |           |
|                                                                                                  |                                                            | 4 PLACES<br>3 PLACES<br>2 PLACES<br>1 PLACE<br>0 PLACE | mm                                                         | INCH                       | DRAWN BY<br>JLAURX                                                                                                               | DATE<br>4/28/09    | TITLE<br>IMPACT 5 PAIR HEADER<br>ORTHOGONAL ASSEMBLY<br>GUIDE RIGHT SALES DWG |                           |  |  |              |  |           |
|                                                                                                  |                                                            |                                                        |                                                            |                            | CHECKED BY<br>JMENDOZA                                                                                                           | DATE<br>2010/01/13 |                                                                               |                           |  |  |              |  |           |
|                                                                                                  |                                                            |                                                        |                                                            |                            | APPROVED BY<br>JB INGHAM                                                                                                         | DATE<br>2010/01/14 |                                                                               |                           |  |  |              |  |           |
|                                                                                                  |                                                            |                                                        | ANGULAR ±1/2°                                              |                            | MATERIAL NO.                                                                                                                     |                    |                                                                               |                           |  |  | DOCUMENT NO. |  | SHEET NO. |
|                                                                                                  |                                                            |                                                        | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                            | SEE CHART                                                                                                                        |                    |                                                                               |                           |  |  | SD-76985-003 |  | 4 OF 4    |
|                                                                                                  |                                                            |                                                        |                                                            | SIZE<br>C                  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                    |                                                                               |                           |  |  |              |  |           |
|                                                                                                  |                                                            |                                                        |                                                            |                            |                                                                                                                                  |                    |                                                                               |                           |  |  |              |  |           |
|                                                                                                  |                                                            |                                                        |                                                            |                            |                                                                                                                                  |                    |                                                                               |                           |  |  |              |  |           |
|                                                                                                  |                                                            |                                                        |                                                            |                            |                                                                                                                                  |                    |                                                                               |                           |  |  |              |  |           |
|                                                                                                  |                                                            |                                                        |                                                            |                            |                                                                                                                                  |                    |                                                                               |                           |  |  |              |  |           |