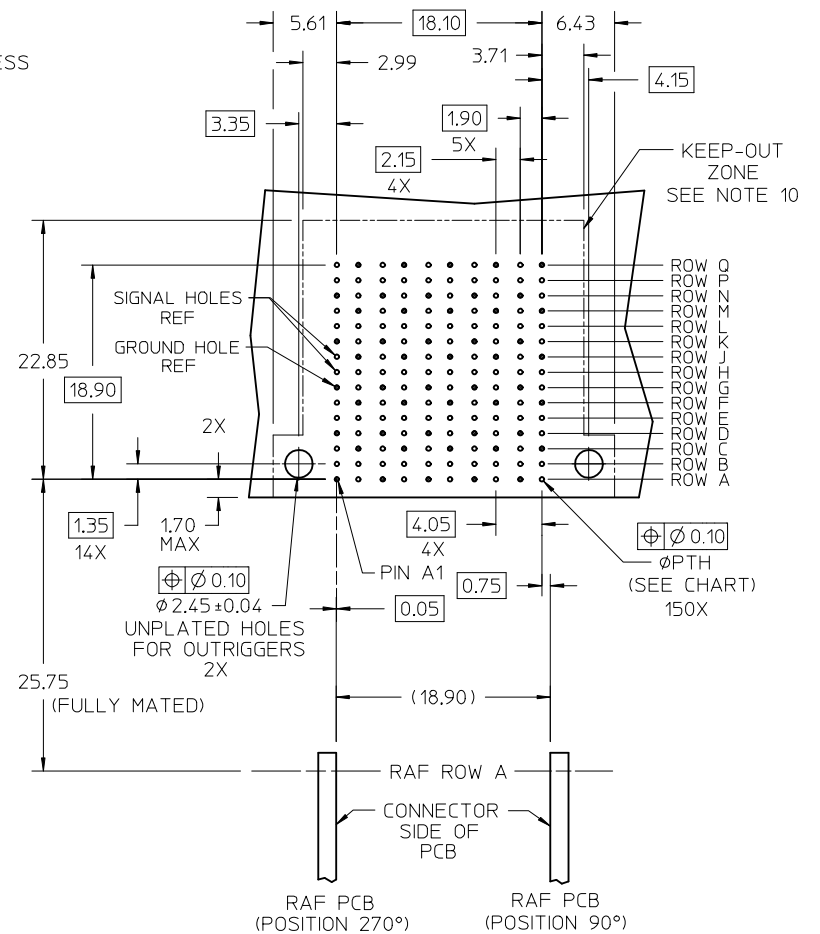
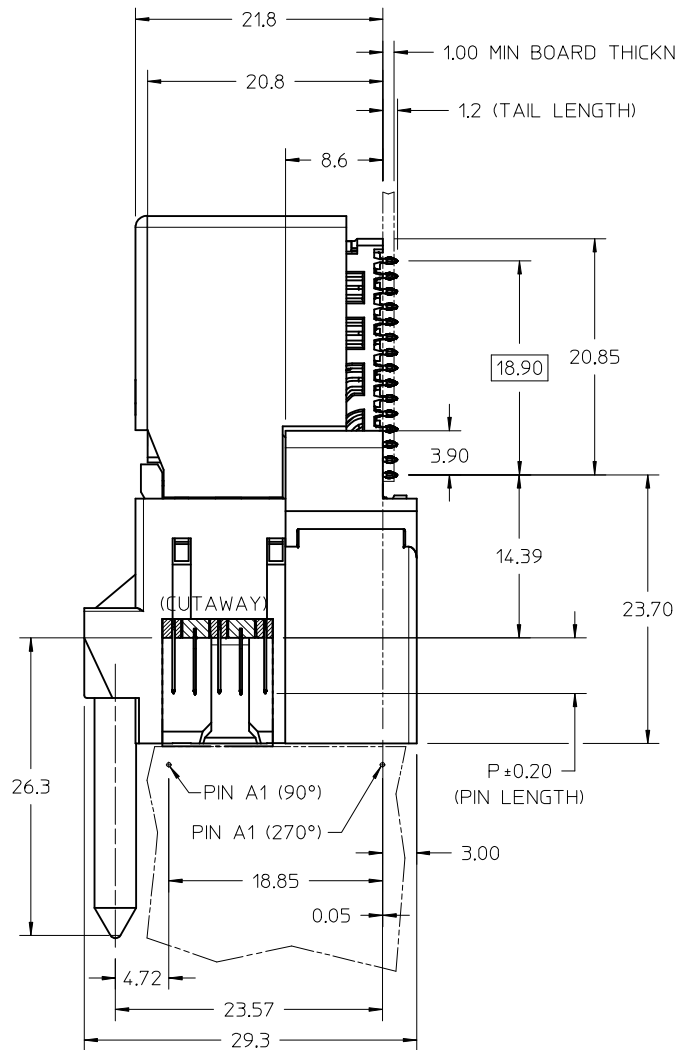
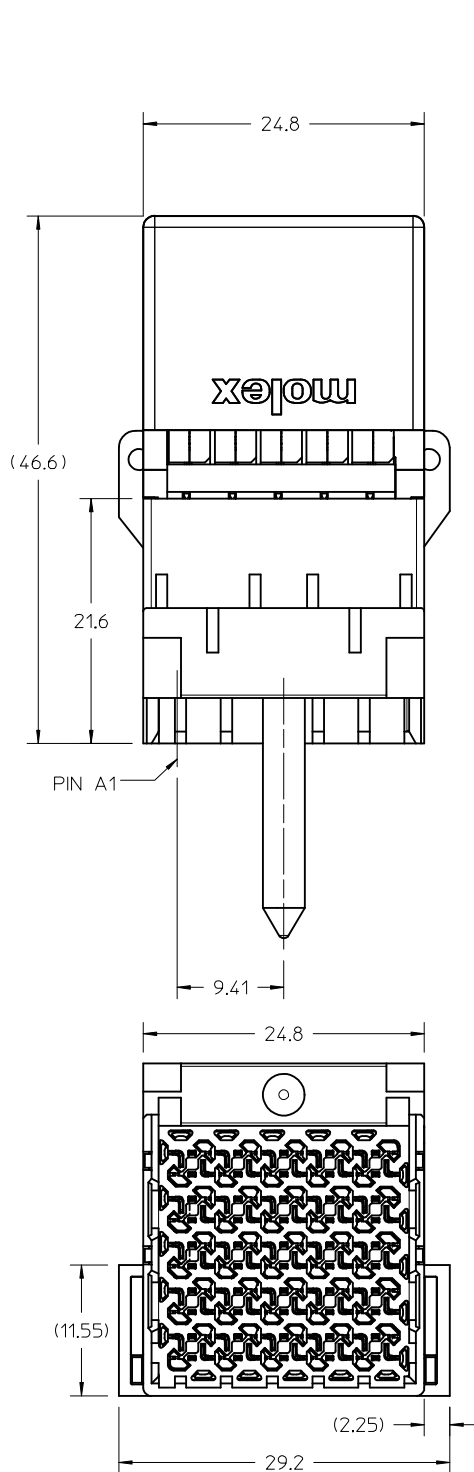
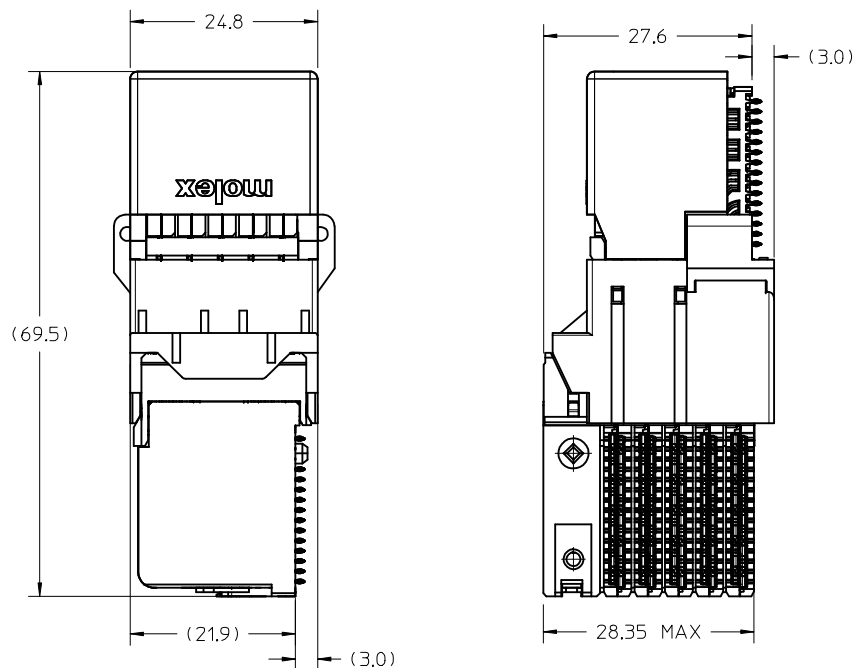




## OD-RAM HOLE PATTERN (CONNECTOR SIDE)

|                                                                                              |                          |             |     |                                   |                                       |        |                            |                           |                    |                                                                                                                               |                                                                                                              |                                                                                          |                     |
|----------------------------------------------------------------------------------------------|--------------------------|-------------|-----|-----------------------------------|---------------------------------------|--------|----------------------------|---------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------|
| P/N TABLE MOVE<br>EC NO: UCP2014-4310<br>DRAWN BY MILLER<br>CHKD: TELLO<br>APPR: TELLO<br>B1 | 2014/04/11<br>2014/04/21 | DESCRIPTION | REV | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) |        | DIMENSION STYLE<br>MM ONLY |                           | SCALE<br>3:1       | DESIGN UNITS<br>METRIC                                                                                                        |  THIRD ANGLE PROJECTION | TITLE<br>IMPACT ORTHOGONAL DIRECT<br>5 PAIR RAM 90 & 270 ASSY<br>TOP GUIDE SALES DRAWING |                     |
|                                                                                              |                          |             |     |                                   |                                       | mm     | INCH                       | DRAWN BY<br>JMENDOZA      | DATE<br>2012/04/13 |                                                                                                                               |                                                                                                              |                                                                                          |                     |
|                                                                                              |                          |             |     |                                   | 4 PLACES                              | ± ---  | ± ---                      | CHECKED BY<br>TELO        | DATE<br>2012/12/04 |                                                                                                                               |                                                                                                              |                                                                                          |                     |
|                                                                                              |                          |             |     |                                   | 3 PLACES                              | ± ---  | ± ---                      | APPROVED BY<br>TELO       | DATE<br>2013/12/26 |                                                                                                                               |                                                                                                              |                                                                                          |                     |
|                                                                                              |                          |             |     |                                   | 2 PLACES                              | ± 0.13 | ± ---                      | MATERIAL NO.<br>SEE CHART |                    | DOCUMENT NO.<br>SD-171575-0002                                                                                                |                                                                                                              |                                                                                          | SHEET NO.<br>1 OF 4 |
|                                                                                              |                          |             |     |                                   | 1 PLACE                               | ± 0.25 | ± ---                      | 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                                   |                          |             |     |                                   | ANGULAR ±1/2°                         |        |                            |                           | MOLEX INCORPORATED |                                                                                                                               |                                                                                                              |                                                                                          |                     |



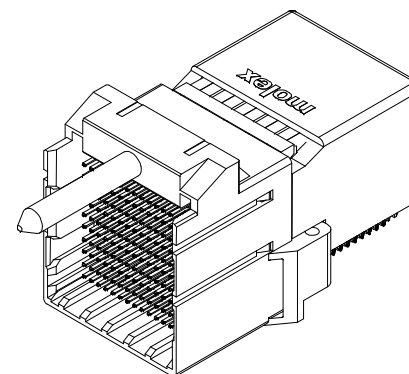
## MATED DIMENSIONS (POSITION 90° SHOWN)

MODULE TYPE 171575-71\*\*  
7 = TOP GUIDED, TIN

# OF COLUMNS 1  
1 = 10 COLUMN

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)

MATE POSITION  
0 = 90 DEGREE  
3 = 270 DEGREE

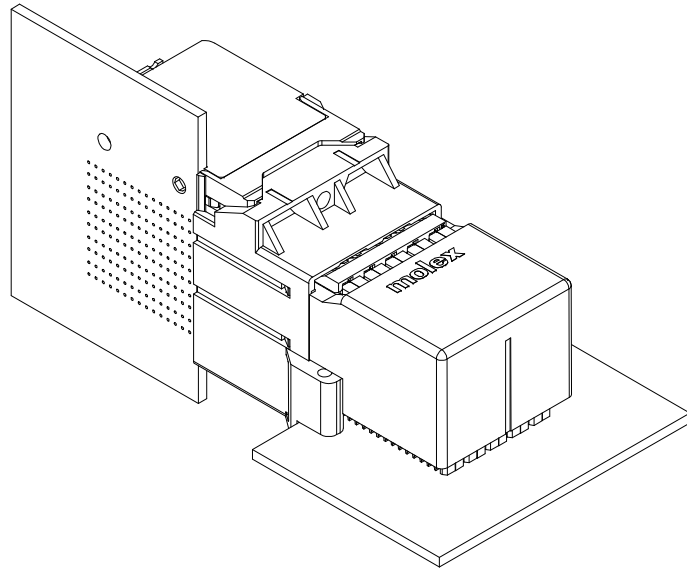


### NOTES:

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 TIN 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. PACKAGE PER: PK-70873-8022.
6. SEE SHEETS 3 AND 4 FOR ORTHOGONAL PIN MAPPING.
7. REFER TO SHEET 3 AND 4 FOR THE MATING RECEPTACLES.
8. REFER TO MOLEX ROUTING GUIDE AS-76850-990 FOR ADDITIONAL PCB LAYOUT  
AND ROUTING RECOMMENDATIONS.
9. CONNECTORS ARE SUPPLIED WITH TWO 2-32 THREAD FORMING  
SCREWS.
10. \*THESE DIMENSIONS REPRESENT THE AREA NEEDED TO ACCOMODATE CONNECTOR  
INSERTION AND REPAIR ON THE PC BOARD. THIS IS REFERED TO AS THE  
"CONNECTOR KEEP OUT ZONE" AND DOES NOT REPRESENT THE ACTUAL PERIMETER  
OF THE CONNECTOR.

|                                                                                                        |     |             |                                   |                                       |        |                                                            |                      |                    |                                                                                          |                                                                                                              |                                                                                                                                  |  |
|--------------------------------------------------------------------------------------------------------|-----|-------------|-----------------------------------|---------------------------------------|--------|------------------------------------------------------------|----------------------|--------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--|
| SEE SHEET 1<br>EC NO: UCP2014-4310<br>DRWN:BJ MILLER 2014/04/11<br>CHKD:<br>APPR:TELO 2014/04/21<br>B1 | REV | DESCRIPTION | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) |        | DIMENSION STYLE<br>MM ONLY                                 |                      | SCALE<br>2:1       | DESIGN UNITS<br>METRIC                                                                   |  THIRD ANGLE PROJECTION |                                                                                                                                  |  |
|                                                                                                        |     |             |                                   |                                       | mm     | INCH                                                       | DRAWN BY<br>JMENDOZA | DATE<br>2012/04/13 | TITLE<br>IMPACT ORTHOGONAL DIRECT<br>5 PAIR RAM 90 & 270 ASSY<br>TOP GUIDE SALES DRAWING |                                                                                                              |                                                                                                                                  |  |
|                                                                                                        |     |             |                                   | 4 PLACES                              | ± ---  | ± ---                                                      | CHECKED BY<br>TELO   | DATE<br>2012/12/04 |                                                                                          |                                                                                                              |                                                                                                                                  |  |
|                                                                                                        |     |             |                                   | 3 PLACES                              | ± ---  | ± ---                                                      | APPROVED BY<br>TELO  | DATE<br>2013/12/26 |                                                                                          |                                                                                                              |                                                                                                                                  |  |
|                                                                                                        |     |             |                                   | 2 PLACES                              | ± 0.13 | ± ---                                                      | MATERIAL NO.         |                    | DOCUMENT NO.                                                                             |                                                                                                              | SHEET NO.<br>2 OF 4                                                                                                              |  |
|                                                                                                        |     |             |                                   | 1 PLACE                               | ± 0.25 | ± ---                                                      | SEE CHART            |                    | SD-171575-0002                                                                           |                                                                                                              |                                                                                                                                  |  |
|                                                                                                        |     |             |                                   | 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 |  |

ORTHO POSITION 90°  
OD-RAM PIN A1 MAPS  
TO RAF PIN Q10



REFER TO MOLEX SALES DRAWING SD-76990-002  
FOR MATING RECEPTACLES.

## ORTHO PIN MAPPING

### OPTION 90 (NEAR SIDE - FAR SIDE)

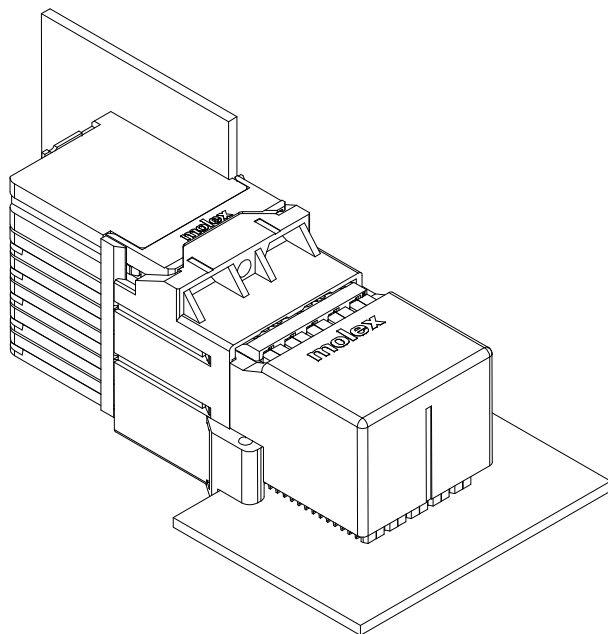
|          |         |          |         |          |         |          |         |          |          |
|----------|---------|----------|---------|----------|---------|----------|---------|----------|----------|
| (A1-Q10) | A2-P10  | (A3-M10) | A4-L10  | (A5-J10) | A6-H10  | (A7-F10) | A8-E10  | (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.  
GROUND PATHS ARE NOT DISCRETE CIRCUITS.

| MATERIAL NUMBER | # OF COLUMNS | # OF DIFF PAIR | MATE POSITION | DIM P | PTH Ø     |
|-----------------|--------------|----------------|---------------|-------|-----------|
| 171575-7104     | 10           | 50             | 90            | 4.90  | 0.46±0.05 |
| 171575-7105     | 10           | 50             | 90            | 5.50  | 0.46±0.05 |
| 171575-7107     | 10           | 50             | 90            | 4.90  | 0.39±0.05 |
| 171575-7108     | 10           | 50             | 90            | 5.50  | 0.39±0.05 |

|                                                                                                          |             |     |                 |                                       |        |       |                                                            |                    |                                                                                          |                        |                                                                                                              |                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------|-------------|-----|-----------------|---------------------------------------|--------|-------|------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| SEE SHEET 1<br>EC NO: UCP2014-4310<br>DRAWN BY MILLER 2014/04/11<br>CHKD:<br>APPR: TELO 2014/04/21<br>B1 | DESCRIPTION | REV | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) |        |       | DIMENSION STYLE<br>MM ONLY                                 |                    | SCALE<br>2:1                                                                             | DESIGN UNITS<br>METRIC |  THIRD ANGLE PROJECTION |                                                                                                                                  |
|                                                                                                          |             |     |                 |                                       | mm     | INCH  | DRAWN BY<br>JMENDOZA                                       | DATE<br>2012/04/13 | TITLE<br>IMPACT ORTHOGONAL DIRECT<br>5 PAIR RAM 90 & 270 ASSY<br>TOP GUIDE SALES DRAWING |                        |                                                                                                              |                                                                                                                                  |
|                                                                                                          |             |     |                 | 4 PLACES                              | ± ---  | ± --- | CHECKED BY<br>TELO                                         | DATE<br>2012/12/04 |                                                                                          |                        |                                                                                                              |                                                                                                                                  |
|                                                                                                          |             |     |                 | 3 PLACES                              | ± ---  | ± --- | APPROVED BY<br>TELO                                        | DATE<br>2013/12/26 |                                                                                          |                        |                                                                                                              |                                                                                                                                  |
|                                                                                                          |             |     |                 | 2 PLACES                              | ± 0.13 | ± --- | MATERIAL NO.                                               |                    |                                                                                          |                        |                                                                                                              | DOCUMENT NO.                                                                                                                     |
|                                                                                                          |             |     |                 | 1 PLACE                               | ± 0.25 | ± --- | SEE CHART                                                  |                    | SD-171575-0002                                                                           |                        |                                                                                                              | 3 OF 4                                                                                                                           |
|                                                                                                          |             |     |                 | ANGULAR ±1/2°                         |        |       | 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 POSITION 270°  
OD-RAM PIN A1 MAPS  
TO RAF PIN A1



REFER TO MOLEX SALES DRAWING SD-76990-004  
FOR MATING RECEPTACLES.

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.  
GROUND PATHS ARE NOT DISCRETE CIRCUITS.

| MATERIAL NUMBER | # OF COLUMNS | # OF DIFF PAIR | MATE POSITION | DIM P | PTH Ø     |
|-----------------|--------------|----------------|---------------|-------|-----------|
| 171575-7134     | 10           | 50             | 270           | 4.90  | 0.46±0.05 |
| 171575-7135     | 10           | 50             | 270           | 5.50  | 0.46±0.05 |
| 171575-7137     | 10           | 50             | 270           | 4.90  | 0.39±0.05 |
| 171575-7138     | 10           | 50             | 270           | 5.50  | 0.39±0.05 |

|                                                                                                    |                               |                                                            |  |                            |                    |                                                                                                                                  |                        |                        |  |
|----------------------------------------------------------------------------------------------------|-------------------------------|------------------------------------------------------------|--|----------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|--|
| SEE SHEET 1<br>EC NO: UCP2014-4310<br>DRAWN BY MILLER 2014/04/11<br>CHKD:<br>APPR: TELO 2014/04/21 | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |  | DIMENSION STYLE<br>MM ONLY |                    | SCALE<br>2:1                                                                                                                     | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION |  |
|                                                                                                    |                               |                                                            |  | DRAWN BY<br>JMENDOZA       | DATE<br>2012/04/13 | TITLE<br>IMPACT ORTHOGONAL DIRECT<br>5 PAIR RAM 90 & 270 ASSY<br>TOP GUIDE SALES DRAWING                                         |                        |                        |  |
|                                                                                                    |                               |                                                            |  | CHECKED BY<br>TELO         | DATE<br>2012/12/04 |                                                                                                                                  |                        |                        |  |
|                                                                                                    |                               |                                                            |  | 1 PLACE ±0.25 ±---         |                    | APPROVED BY<br>TELO                                                                                                              | DATE<br>2013/12/26     | MOLEX INCORPORATED     |  |
|                                                                                                    |                               | ANGULAR ±1/2°                                              |  | MATERIAL NO.               |                    | DOCUMENT NO.                                                                                                                     |                        | SHEET NO.              |  |
|                                                                                                    |                               | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |  | SEE CHART                  |                    | SD-171575-0002                                                                                                                   |                        | 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 |                        |                        |  |