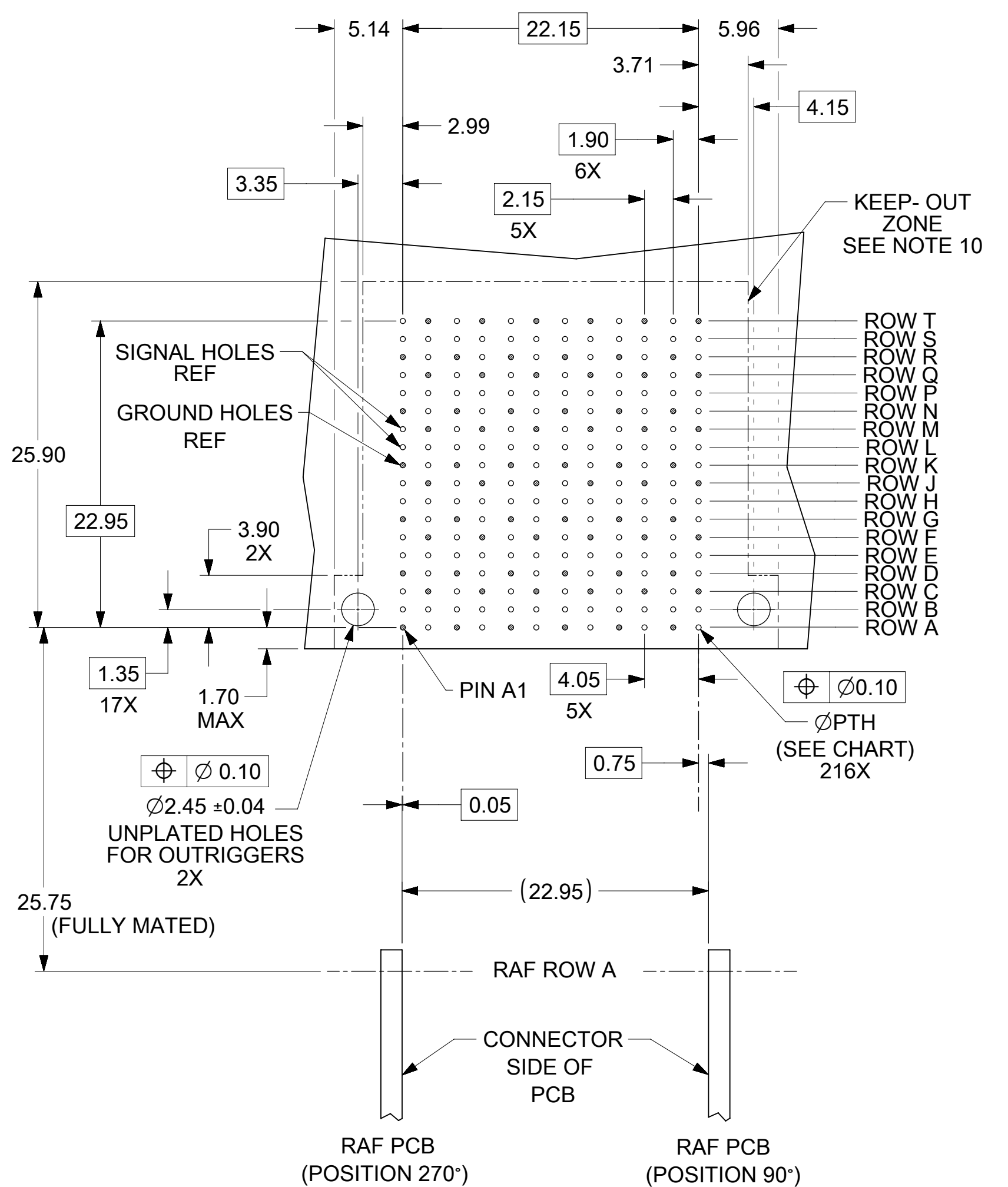
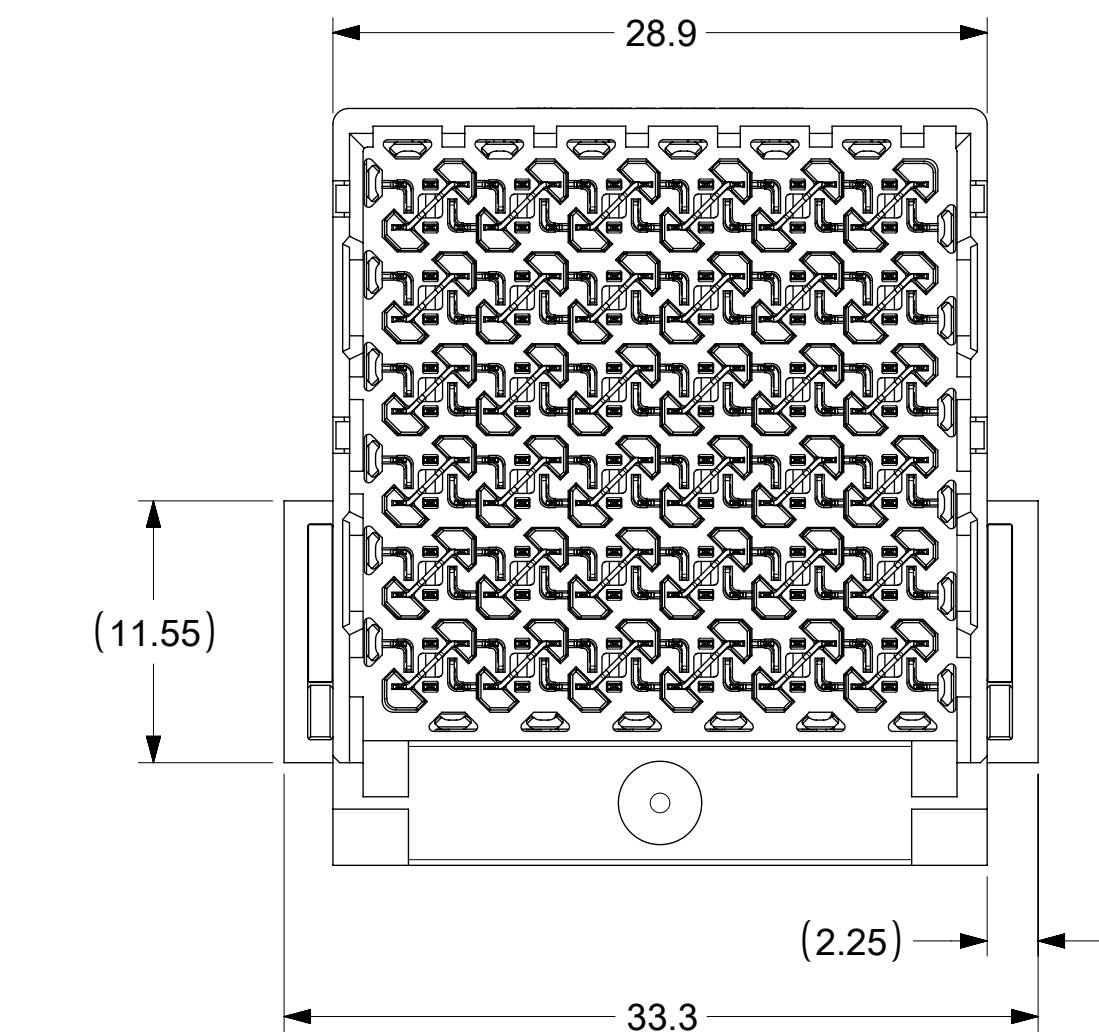
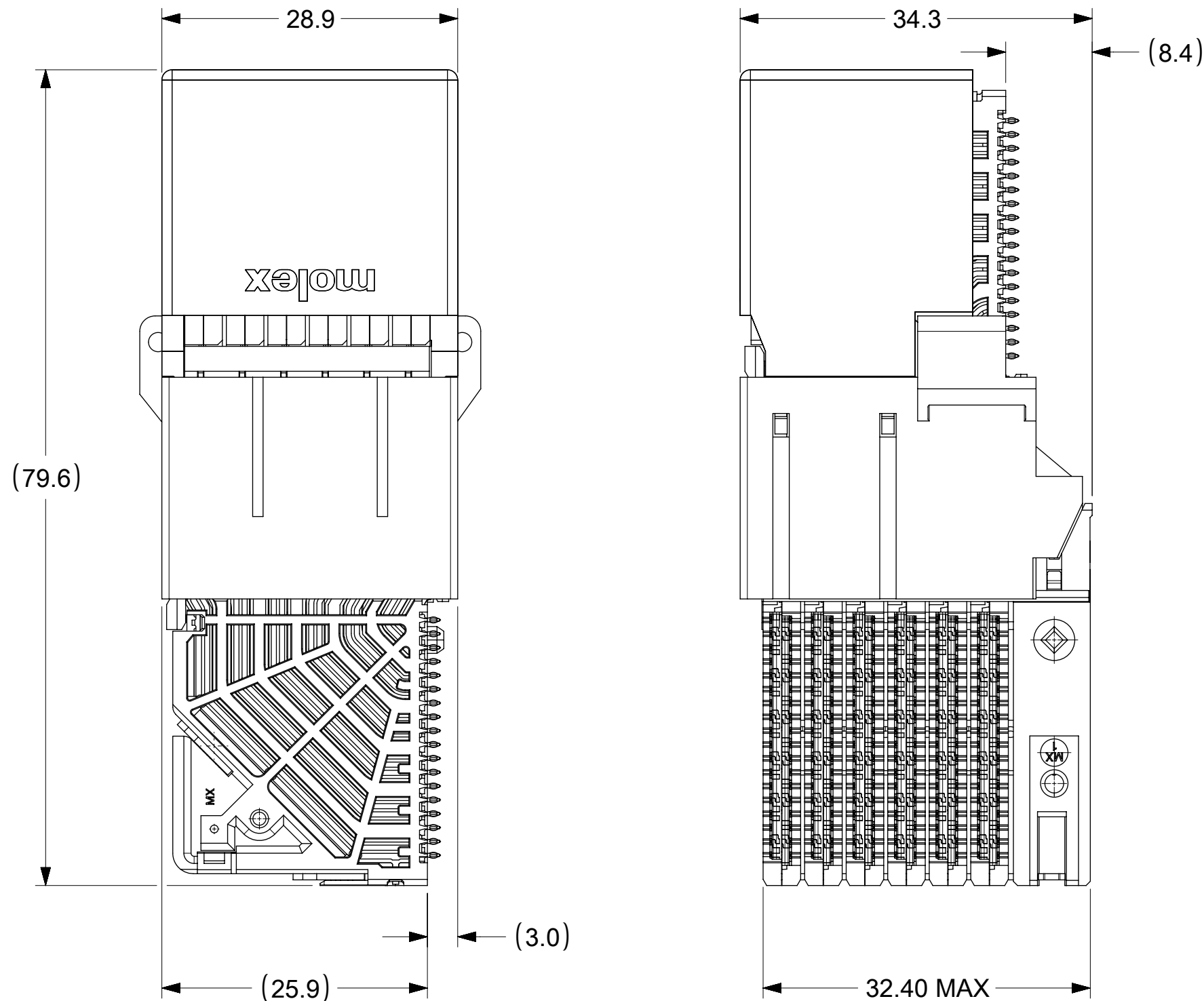




## OD- RAM HOLE PATTERN (CONNECTOR SIDE)

|                                                                                                                                               |  |        |  |                                                                                                                                                                                                                                                 |  |                       |                                                                                                        |                      |  |                                  |  |                                |          |                            |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--|--------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------|--------------------------------------------------------------------------------------------------------|----------------------|--|----------------------------------|--|--------------------------------|----------|----------------------------|--|
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |        |  |                                                                                                                                                                                                                                                 |  |                       |                                                                                                        |                      |  |                                  |  |                                |          |                            |  |
| DIMENSION UNITS                                                                                                                               |  | SCALE  |  | CURRENT REV DESC: MIGRATED TO NX<br><br>EC NO: 705090<br>DRWN: AAPPAROTHAKK<br>2018/09/19<br>CHK'D: VINODM3<br>2022/02/17<br>APPR: LZENG<br>2022/05/13<br><br>INITIAL REVISION:<br>DRWN: JMENDOZA<br>2012/04/13<br>APPR: JMENDOZA<br>2012/12/03 |  |                       | <div>molex</div><br><br>IMPACT ORTHOGONAL DIRECT<br>6 PAIR RAM 90 & 270 ASSY BOTTOM GUIDE SALES<br>DWG |                      |  |                                  |  |                                |          |                            |  |
| mm                                                                                                                                            |  | NTS    |  |                                                                                                                                                                                                                                                 |  |                       |                                                                                                        |                      |  |                                  |  |                                |          |                            |  |
| GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                                                                                                      |  |        |  |                                                                                                                                                                                                                                                 |  |                       | PRODUCT CUSTOMER DRAWING                                                                               |                      |  |                                  |  |                                |          |                            |  |
| ANGULAR TOL ± 0.5 °                                                                                                                           |  |        |  |                                                                                                                                                                                                                                                 |  |                       |                                                                                                        |                      |  |                                  |  |                                |          |                            |  |
| 4 PLACES                                                                                                                                      |  | ±      |  |                                                                                                                                                                                                                                                 |  |                       |                                                                                                        |                      |  |                                  |  |                                |          |                            |  |
| 3 PLACES                                                                                                                                      |  | ±      |  |                                                                                                                                                                                                                                                 |  |                       | DOCUMENT NUMBER<br><br>SD-171576-0003                                                                  |                      |  | DOC TYPE                         |  | DOC PART                       | REVISION |                            |  |
| 2 PLACES                                                                                                                                      |  | ± 0.13 |  | PSD                                                                                                                                                                                                                                             |  | 001                   |                                                                                                        |                      |  | B3                               |  |                                |          |                            |  |
| 1 PLACE                                                                                                                                       |  | ± 0.25 |  |                                                                                                                                                                                                                                                 |  |                       |                                                                                                        |                      |  |                                  |  |                                |          |                            |  |
| 0 PLACES                                                                                                                                      |  | ±      |  |                                                                                                                                                                                                                                                 |  |                       |                                                                                                        |                      |  |                                  |  |                                |          |                            |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                                    |  |        |  | THIRD ANGLE PROJECTION<br>                                                                                                                                 |  | DRAWING<br><br>C-SIZE |                                                                                                        | SERIES<br><br>171576 |  | MATERIAL NUMBER<br><br>SEE TABLE |  | CUSTOMER<br><br>GENERAL MARKET |          | SHEET NUMBER<br><br>1 OF 4 |  |



MATED DIMENSIONS  
(POSITION 90°SHOWN)

- NOTES:
- MATERIALS: HOUSING - LIQUID CRYSTAL POLYMER (LCP)  
GLASS-FILLED, UL94V-0  
TERMINALS - HIGH PERFORMANCE COPPER ALLOY
  - FINISH: 30μ MIN GOLD IN CONTACT AREA.  
SELECTIVE TIN ON PCB TAILS.  
NICKEL OVERALL.
  - REFER TO MOLEX PRODUCT SPECIFICATION PS-76060-999  
FOR PERFORMANCE SPECIFICATIONS AND ADDITIONAL PCB INFORMATION.
  - THIS PART CONFORMS TO CLASS B REQUIREMENTS OF  
COSMETIC SPEC PS-45499-002.
  - PACKAGE PER: PK-70873-8025.
  - SEE SHEETS 3 AND 4 FOR ORTHOGONAL PIN MAPPING.
  - REFER TO SHEET 3 AND 4 FOR THE MATING RECEPTACLES.
  - REFER TO MOLEX ROUTING GUIDE AS-76850-990 FOR ADDITIONAL PCB LAYOUT  
AND ROUTING RECOMMENDATIONS.
  - CONNECTORS ARE SUPPLIED WITH TWO 2-32 THREAD FORMING  
SCREWS.
  - THESE DIMENSIONS REPRESENT THE AREA NEEDED TO ACCOMODATE CONNECTOR  
INSERTION AND REPAIR ON THE PC BOARD. THIS IS REFERRED TO AS THE  
"CONNECTOR KEEP OUT ZONE" AND DOES NOT REPRESENT THE ACTUAL PERIMETER  
OF THE CONNECTOR.
  - MARKING: LOCATED APPROXIMATELY AS SHOWN, ON BOTTOM OR TOP HOUSING.  
PART NUMBER AND DATE CODE.

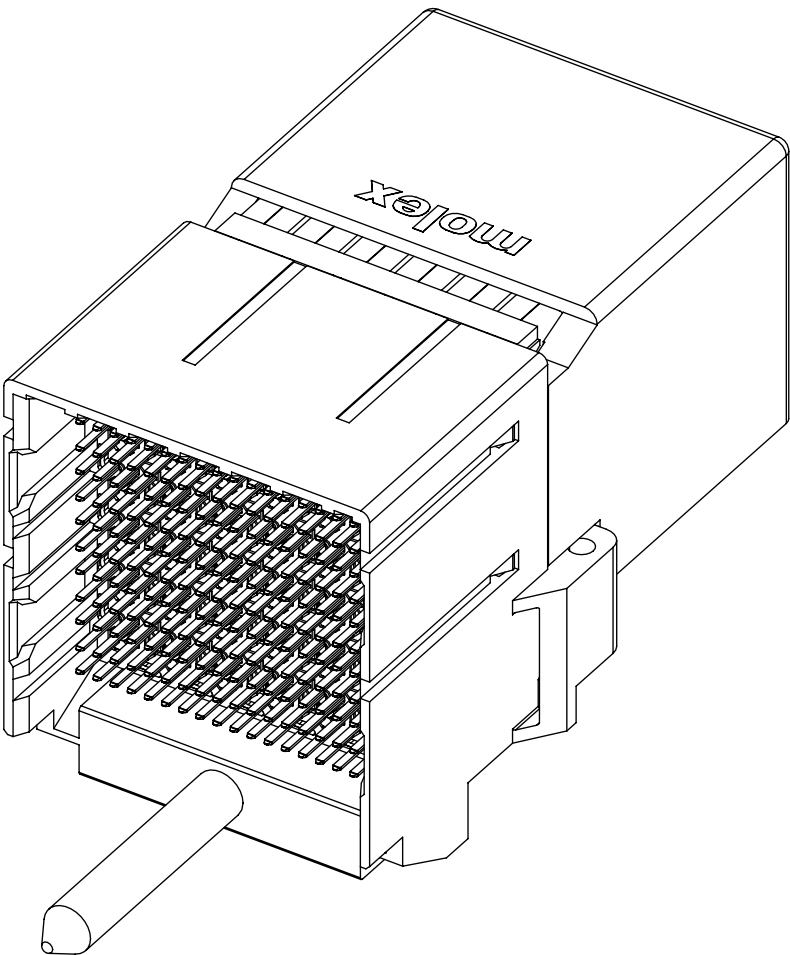
171576-92\*\*

MODULE TYPE  
9 = BOTTOM GUIDED, TIN

# OF COLUMNS  
2 = 12 COLUMN

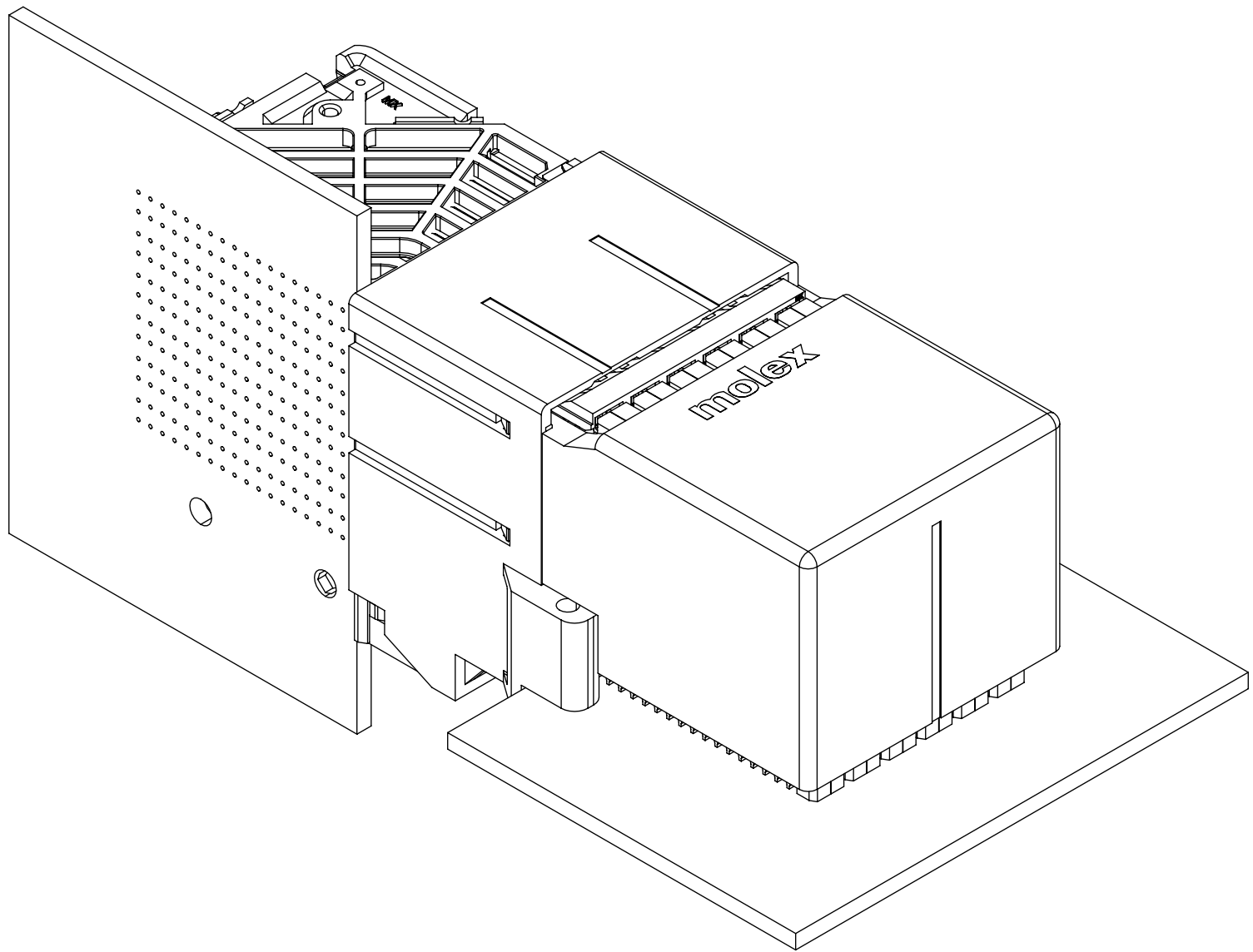
PIN LENGTH (P)  
4 = 4.90 (0.46 PTH)  
5 = 5.50 (0.46 PTH)  
7 = 4.90 (0.39 PTH)  
8 = 5.50 (0.39 PTH)

MATE POSITION  
0 = 90 DEGREE  
3 = 270 DEGREE



|                                                                                                                                               |  |       |       |                                                                                                      |  |         |        |                                                                                                                                                      |  |                |          |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--|-------|-------|------------------------------------------------------------------------------------------------------|--|---------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------|----------|--------------|
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |       |       |                                                                                                      |  |         |        |                                                                                                                                                      |  |                |          |              |
| DIMENSION UNITS                                                                                                                               |  | SCALE |       | CURRENT REV DESC: MIGRATED TO NX                                                                     |  |         |        | <div>molex</div> <div>IMPACT ORTHOGONAL DIRECT<br/>6 PAIR RAM 90 &amp; 270 ASSY BOTTOM GUIDE SALES<br/>DWG</div> <div>PRODUCT CUSTOMER DRAWING</div> |  |                |          |              |
| mm                                                                                                                                            |  | NTS   |       |                                                                                                      |  |         |        |                                                                                                                                                      |  |                |          |              |
| GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                                                                                                      |  |       |       | EC NO: 705090<br>DRWN: AAPAROTHAKK 2018/09/19<br>CHK'D: VINODM3 2022/02/17<br>APPR: LZENG 2022/05/13 |  |         |        |                                                                                                                                                      |  |                |          |              |
| ANGULAR TOL                                                                                                                                   |  | ±     | 0.5 ° |                                                                                                      |  |         |        |                                                                                                                                                      |  |                |          |              |
| 4 PLACES                                                                                                                                      |  | ±     |       |                                                                                                      |  |         |        |                                                                                                                                                      |  |                |          |              |
| 3 PLACES                                                                                                                                      |  | ±     |       |                                                                                                      |  |         |        |                                                                                                                                                      |  |                |          |              |
| 2 PLACES                                                                                                                                      |  | ±     | 0.13  |                                                                                                      |  |         |        |                                                                                                                                                      |  |                |          |              |
| 1 PLACE                                                                                                                                       |  | ±     | 0.25  | INITIAL REVISION:<br>DRWN: JMENDOZA 2012/04/13<br>APPR: JMENDOZA 2012/12/03                          |  |         |        | DOCUMENT NUMBER                                                                                                                                      |  | DOC TYPE       | DOC PART | REVISION     |
| 0 PLACES                                                                                                                                      |  | ±     |       |                                                                                                      |  |         |        | SD-171576-0003                                                                                                                                       |  | PSD            | 001      | B3           |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                                    |  |       |       | THIRD ANGLE PROJECTION                                                                               |  | DRAWING | SERIES | MATERIAL NUMBER                                                                                                                                      |  | CUSTOMER       |          | SHEET NUMBER |
|                                                                                                                                               |  |       |       |                                                                                                      |  | C-SIZE  | 171576 | SEE TABLE                                                                                                                                            |  | GENERAL MARKET |          | 2 OF 4       |

ORTHO POSITION 90°  
OD-RAM PIN A1 MAPS  
TO RAF PIN T12



REFER TO MOLEX SALES DRAWING SD-76290-004  
FOR MATING RECEPTACLES.

ORTHO PIN MAPPING

OPTION 90 (NEAR SIDE - FAR SIDE)

|        |        |        |        |        |        |        |        |        |         |         |         |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| A1-T12 | A2-S12 | A3-Q12 | A4-P12 | A5-M12 | A6-L12 | A7-J12 | A8-H12 | A9-F12 | A10-E12 | A11-C12 | A12-B12 |
| B1-T11 | B2-R12 | B3-Q11 | B4-N12 | B5-M11 | B6-K12 | B7-J11 | B8-G12 | B9-F11 | B10-D12 | B11-C11 | B12-A12 |
| C1-S11 | C2-R11 | C3-P11 | C4-N11 | C5-L11 | C6-K11 | C7-H11 | C8-G11 | C9-E11 | C10-D11 | C11-B11 | C12-A11 |
| D1-T10 | D2-S10 | D3-Q10 | D4-P10 | D5-M10 | D6-L10 | D7-J10 | D8-H10 | D9-F10 | D10-E10 | D11-C10 | D12-B10 |
| E1-T9  | E2-R10 | E3-Q9  | E4-N10 | E5-M9  | E6-K10 | E7-J9  | E8-G10 | E9-F9  | E10-D10 | E11-C9  | E12-A10 |
| F1-S9  | F2-R9  | F3-P9  | F4-N9  | F5-L9  | F6-K9  | F7-H9  | F8-G9  | F9-E9  | F10-D9  | F11-B9  | F12-A9  |
| G1-T8  | G2-S8  | G3-Q8  | G4-P8  | G5-M8  | G6-L8  | G7-J8  | G8-H8  | G9-F8  | G10-E8  | G11-C8  | G12-B8  |
| H1-T7  | H2-R8  | H3-Q7  | H4-N8  | H5-M7  | H6-K8  | H7-J7  | H8-G8  | H9-F7  | H10-D8  | H11-C7  | H12-A8  |
| J1-S7  | J2-R7  | J3-P7  | J4-N7  | J5-L7  | J6-K7  | J7-H7  | J8-G7  | J9-E7  | J10-D7  | J11-B7  | J12-A7  |
| K1-T6  | K2-S6  | K3-Q6  | K4-P6  | K5-M6  | K6-L6  | K7-J6  | K8-H6  | K9-F6  | K10-E6  | K11-C6  | K12-B6  |
| L1-T5  | L2-R6  | L3-Q5  | L4-N6  | L5-M5  | L6-K6  | L7-J5  | L8-G6  | L9-F5  | L10-D6  | L11-C5  | L12-A6  |
| M1-S5  | M2-R5  | M3-P5  | M4-N5  | M5-L5  | M6-K5  | M7-H5  | M8-G5  | M9-E5  | M10-D5  | M11-B5  | M12-A5  |
| N1-T4  | N2-S4  | N3-Q4  | N4-P4  | N5-M4  | N6-L4  | N7-J4  | N8-H4  | N9-F4  | N10-E4  | N11-C4  | N12-B4  |
| P1-T3  | P2-R4  | P3-Q3  | P4-N4  | P5-M3  | P6-K4  | P7-J3  | P8-G4  | P9-F3  | P10-D4  | P11-C3  | P12-A4  |
| Q1-S3  | Q2-R3  | Q3-P3  | Q4-N3  | Q5-L3  | Q6-K3  | Q7-H3  | Q8-G3  | Q9-E3  | Q10-D3  | Q11-B3  | Q12-A3  |
| R1-T2  | R2-S2  | R3-Q2  | R4-P2  | R5-M2  | R6-L2  | R7-J2  | R8-H2  | R9-F2  | R10-E2  | R11-C2  | R12-B2  |
| S1-T1  | S2-R2  | S3-Q1  | S4-N2  | S5-M1  | S6-K2  | S7-J1  | S8-G2  | S9-F1  | S10-D2  | S11-C1  | S12-A2  |
| T1-S1  | T2-R1  | T3-P1  | T4-N1  | T5-L1  | T6-K1  | T7-H1  | T8-G1  | T9-E1  | T10-D1  | T11-B1  | T12-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     |
|-----------------|--------------|----------------|---------------|-------|-----------|
| 171576-9204     | 12           | 72             | 90            | 4.90  | 0.46±0.05 |
| 171576-9205     | 12           | 72             | 90            | 5.50  | 0.46±0.05 |
| 171576-9207     | 12           | 72             | 90            | 4.90  | 0.39±0.05 |
| 171576-9208     | 12           | 72             | 90            | 5.50  | 0.39±0.05 |

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

|                                                      |         |                                  |         |
|------------------------------------------------------|---------|----------------------------------|---------|
| DIMENSION UNITS                                      | SCALE   | CURRENT REV DESC: MIGRATED TO NX |         |
| mm                                                   | NTS     |                                  |         |
| GENERAL TOLERANCES (UNLESS SPECIFIED)                |         |                                  |         |
| ANGULAR TOL                                          | ± 0.5 ° |                                  |         |
| 4 PLACES                                             | ±       |                                  |         |
| 3 PLACES                                             | ±       |                                  |         |
| 2 PLACES                                             | ± 0.13  |                                  |         |
| 1 PLACE                                              | ± 0.25  |                                  |         |
| 0 PLACES                                             | ±       |                                  |         |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |         | THIRD ANGLE PROJECTION           | DRAWING |
|                                                      |         |                                  | C-SIZE  |

EC NO: 705090  
DRWN: AAPPAROTHAKK  
CHK'D: VINODM3  
APPR: LZENG

2018/09/19  
2022/02/17  
2022/05/13

INITIAL REVISION:  
DRWN: JMENDOZA  
APPR: JMENDOZA

2012/04/13  
2012/12/03

DOCUMENT NUMBER

SD-171576-0003

DOC TYPE

PSD

DOC PART

001

REVISION

B3

MATERIAL NUMBER

SEE TABLE

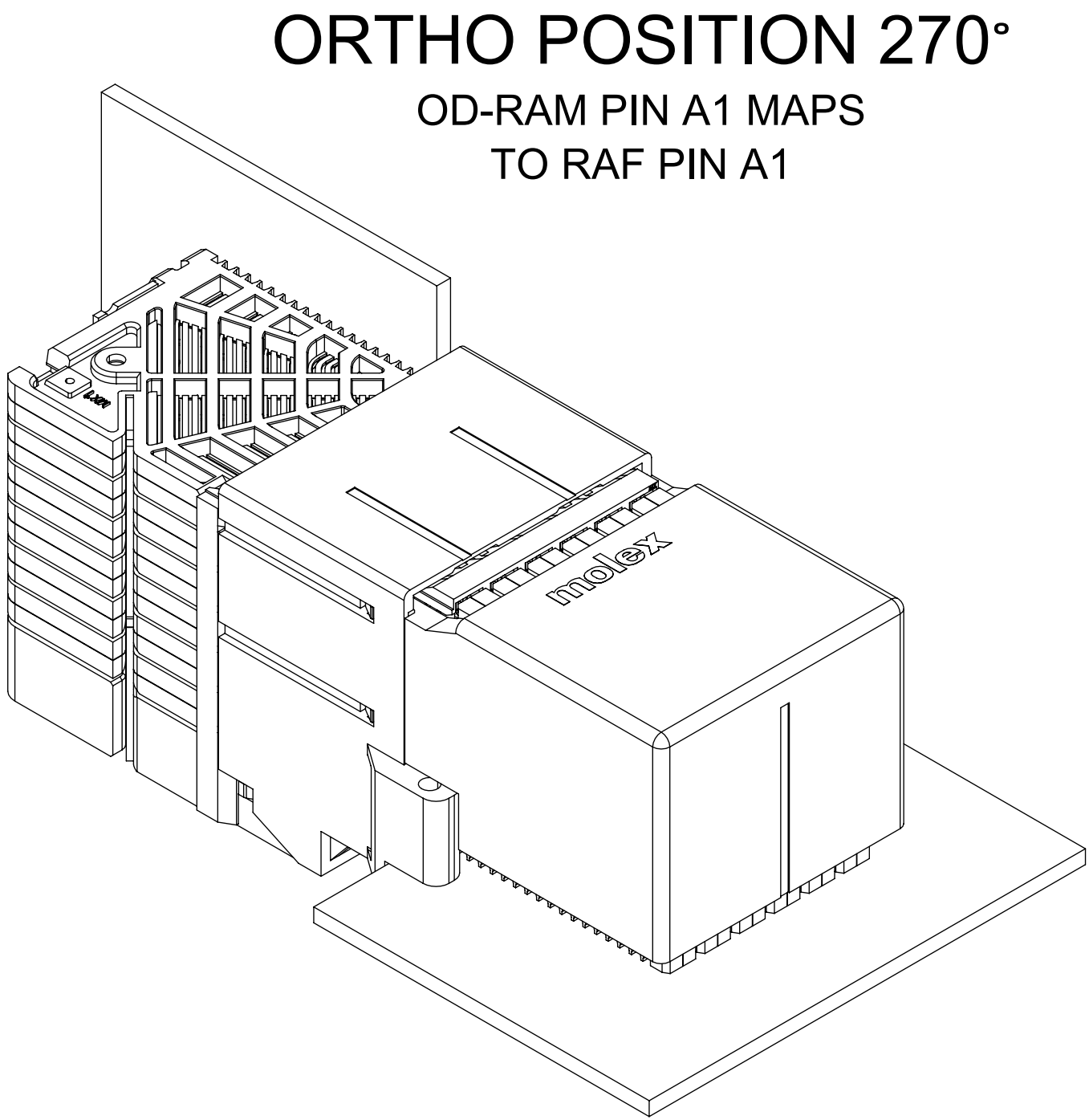
CUSTOMER

GENERAL MARKET

SHEET NUMBER

3 OF 4





ORTH0 POSITION 270°  
OD-RAM PIN A1 MAPS  
TO RAF PIN A1

REFER TO MOLEX SALES DRAWING SD-76290-002  
FOR MATING RECEPTACLES.

ORTH0 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  | A11-R1  | A12-S1  |
| B1-A2  | B2-C1  | B3-D2  | B4-F1  | B5-G2  | B6-J1  | B7-K2  | B8-M1  | B9-N2  | B10-Q1  | B11-R2  | B12-T1  |
| C1-B2  | C2-C2  | C3-E2  | C4-F2  | C5-H2  | C6-J2  | C7-L2  | C8-M2  | C9-P2  | C10-Q2  | C11-S2  | C12-T2  |
| D1-A3  | D2-B3  | D3-D3  | D4-E3  | D5-G3  | D6-H3  | D7-K3  | D8-L3  | D9-N3  | D10-P3  | D11-R3  | D12-S3  |
| E1-A4  | E2-C3  | E3-D4  | E4-F3  | E5-G4  | E6-J3  | E7-K4  | E8-M3  | E9-N4  | E10-Q3  | E11-R4  | E12-T3  |
| F1-B4  | F2-C4  | F3-E4  | F4-F4  | F5-H4  | F6-J4  | F7-L4  | F8-M4  | F9-P4  | F10-Q4  | F11-S4  | F12-T4  |
| G1-A5  | G2-B5  | G3-D5  | G4-E5  | G5-G5  | G6-H5  | G7-K5  | G8-L5  | G9-N5  | G10-P5  | G11-R5  | G12-S5  |
| H1-A6  | H2-C5  | H3-D6  | H4-F5  | H5-G6  | H6-J5  | H7-K6  | H8-M5  | H9-N6  | H10-Q5  | H11-R6  | H12-T5  |
| J1-B6  | J2-C6  | J3-E6  | J4-F6  | J5-H6  | J6-J6  | J7-L6  | J8-M6  | J9-P6  | J10-Q6  | J11-S6  | J12-T6  |
| K1-A7  | K2-B7  | K3-D7  | K4-E7  | K5-G7  | K6-H7  | K7-K7  | K8-L7  | K9-N7  | K10-P7  | K11-R7  | K12-S7  |
| L1-A8  | L2-C7  | L3-D8  | L4-F7  | L5-G8  | L6-J7  | L7-K8  | L8-M7  | L9-N8  | L10-Q7  | L11-R8  | L12-T7  |
| M1-B8  | M2-C8  | M3-E8  | M4-F8  | M5-H8  | M6-J8  | M7-L8  | M8-M8  | M9-P8  | M10-Q8  | M11-S8  | M12-T8  |
| N1-A9  | N2-B9  | N3-D9  | N4-E9  | N5-G9  | N6-H9  | N7-K9  | N8-L9  | N9-N9  | N10-P9  | N11-R9  | N12-S9  |
| P1-A10 | P2-C9  | P3-D10 | P4-F9  | P5-G10 | P6-J9  | P7-K10 | P8-M9  | P9-N10 | P10-Q9  | P11-R10 | P12-T9  |
| Q1-B10 | Q2-C10 | Q3-E10 | Q4-F10 | Q5-H10 | Q6-J10 | Q7-L10 | Q8-M10 | Q9-P10 | Q10-Q10 | Q11-S10 | Q12-T10 |
| R1-A11 | R2-B11 | R3-D11 | R4-E11 | R5-G11 | R6-H11 | R7-K11 | R8-L11 | R9-N11 | R10-P11 | R11-R11 | R12-S11 |
| S1-A12 | S2-C11 | S3-D12 | S4-F11 | S5-G12 | S6-J11 | S7-K12 | S8-M11 | S9-N12 | S10-Q11 | S11-R12 | S12-T11 |
| T1-B12 | T2-C12 | T3-E12 | T4-F12 | T5-H12 | T6-J12 | T7-L12 | T8-M12 | T9-P12 | T10-Q12 | T11-S12 | T12-T12 |

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     |
|-----------------|--------------|----------------|---------------|-------|-----------|
| 171576-9234     | 12           | 72             | 270           | 4.90  | 0.46±0.05 |
| 171576-9235     | 12           | 72             | 270           | 5.50  | 0.46±0.05 |
| 171576-9237     | 12           | 72             | 270           | 4.90  | 0.39±0.05 |
| 171576-9238     | 12           | 72             | 270           | 5.50  | 0.39±0.05 |

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

|                                                      |        |                                  |         |
|------------------------------------------------------|--------|----------------------------------|---------|
| DIMENSION UNITS                                      | SCALE  | CURRENT REV DESC: MIGRATED TO NX |         |
| mm                                                   | NTS    |                                  |         |
| GENERAL TOLERANCES (UNLESS SPECIFIED)                |        |                                  |         |
| ANGULAR TOL                                          | ± 0.5° |                                  |         |
| 4 PLACES                                             | ±      |                                  |         |
| 3 PLACES                                             | ±      |                                  |         |
| 2 PLACES                                             | ± 0.13 |                                  |         |
| 1 PLACE                                              | ± 0.25 |                                  |         |
| 0 PLACES                                             | ±      |                                  |         |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |        | THIRD ANGLE PROJECTION           | DRAWING |
|                                                      |        |                                  | C-SIZE  |

EC NO: 705090  
DRWN: AAPPAROTHAKK  
CHK'D: VINODM3  
APPR: LZENG

2018/09/19  
2022/02/17  
2022/05/13

INITIAL REVISION:  
DRWN: JMENDOZA  
APPR: JMENDOZA

2012/04/13  
2012/12/03

IMPACT ORTHOGONAL DIRECT  
6 PAIR RAM 90 & 270 ASSY BOTTOM GUIDE SALES DWG

PRODUCT CUSTOMER DRAWING

|                 |          |          |          |
|-----------------|----------|----------|----------|
| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
| SD-171576-0003  | PSD      | 001      | B3       |

|                 |                |              |
|-----------------|----------------|--------------|
| MATERIAL NUMBER | CUSTOMER       | SHEET NUMBER |
| SEE TABLE       | GENERAL MARKET | 4 OF 4       |