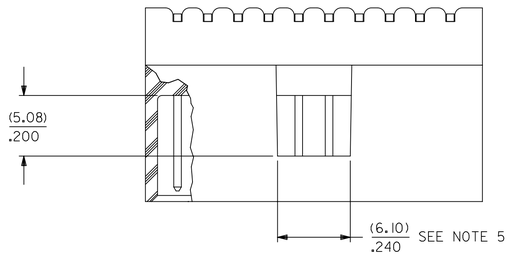
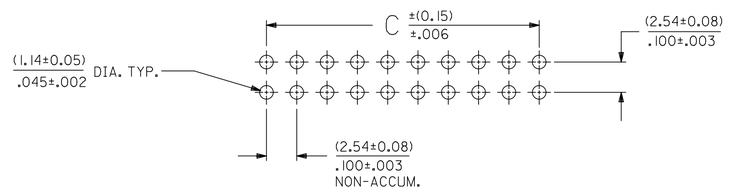
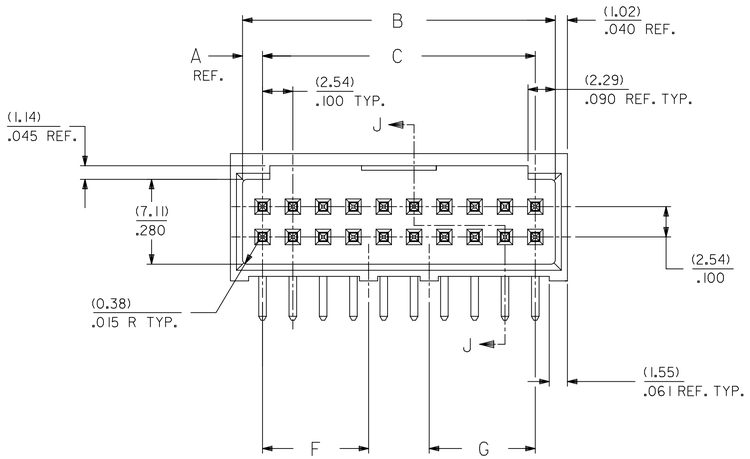
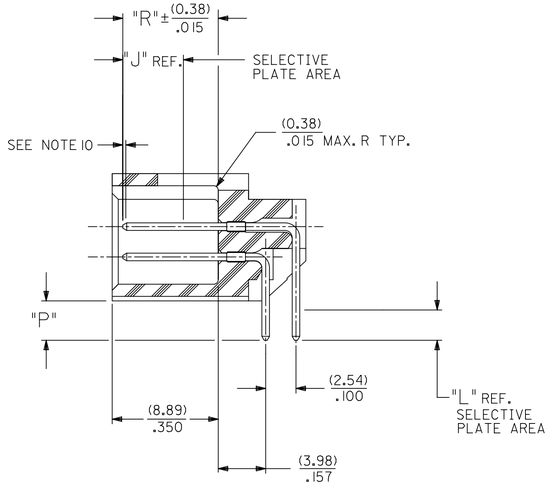
# VERSION A (1.68/.066 END CIRCUITS TO INSIDE END WALLS)



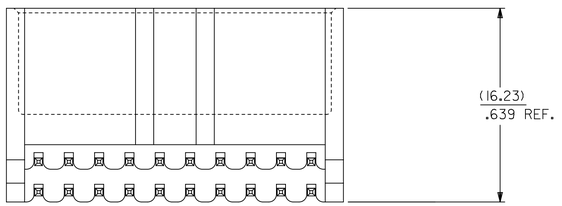



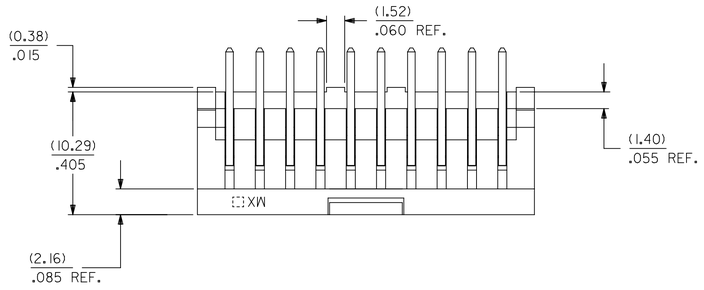

RECOMMENDED P.C. BOARD HOLE LAYOUT




SECTION J-J




NOTES
1. MATERIAL: SHROUDED WAFER: GLASS FILLED, LIQUID CRYSTAL POLYMER,
COLOR: BLACK; UL94V-0
PINS: COPPER ALLOY
2. FINISH:
TIN - 3.81 MICROMETERS/150 MICROINCHES MINIMUM TIN PLATE
OVER NICKEL UNDERPLATE OVERALL
15 GOLD - 0.38 MICROMETERS/15 MICROINCHES MINIMUM GOLD PLATE IN SELECT AREA
1.91 MICROMETERS/75 MICROINCHES MINIMUM TIN PLATE IN SELECT AREA
OVER NICKEL UNDERPLATE OVERALL

30 GOLD - 0.76 MICROMETERS/30 MICROINCHES MINIMUM GOLD PLATE IN SELECT AREA
1.91 MICROMETERS/75 MICROINCHES MINIMUM TIN PLATE IN SELECT AREA
OVER NICKEL UNDERPLATE OVERALL
3. PRODUCT SPECIFICATION: PS-74162-0001
4. PACKAGING INFORMATION: SEE CHARTS
5. WINDOW NOT AVAILABLE ON 6 CKT.
6. FOR CHARTED DIMENSIONS AND ASSEMBLY NO.S NOT SHOWN ON THIS SHEET - SEE SHEET 2.
7. 20 CIRCUIT SIZE SHOWN FOR ILLUSTRATION PURPOSES.
8. PIN PUSHOUT FORCE: (17.79 N)/4 LBS.
9. PINS MUST MEET SOLDERABLILITY SPEC. MIL-STD-202 METHOD 208B.
10. ROW TO ROW PIN HEIGHT VARIATION MUST NOT EXCEED (0.25)/.010 IN.
11. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

| CKT. | DIM. "A" | DIM. "B" | DIM. "C" | DIM. "F" | DIM. "G" | | | |
|---|---|---|---|---|---|---|---|---|
| 06 | (1.68) .066 | (8.43) .332 | (5.08) .200 | | | | | |
| 08 | (1.68) .066 | (10.97) .432 | (7.62) .300 | | | | | |
| 10 | (1.68) .066 | (13.51) .532 | (10.16) .400 | | | | | |
| 12 | (1.68) .066 | (16.05) .632 | (12.70) .500 | | | | | |
| 14 | (1.68) .066 | (18.59) .732 | (15.24) .600 | | | | | |
| 16 | (1.68) .066 | (21.13) .832 | (17.78) .700 | | | | | |
| 18 | (1.68) .066 | (23.67) .932 | (20.32) .800 | | | | | |
| 20 | (1.68) .066 | (26.21) 1.032 | (22.86) .900 | | | | | |
| 22 | (1.68) .066 | (28.75) 1.132 | (25.40) 1.000 | | | | | |
| 24 | (1.68) .066 | (31.29) 1.232 | (27.94) 1.100 | (16.64) .655 | | | | |
| 26 | (1.68) .066 | (33.83) 1.332 | (30.48) 1.200 | (16.64) .655 | | | | |
| 28 | (1.68) .066 | (36.37) 1.432 | (33.02) 1.300 | (16.64) .655 | | | | |
| 30 | (1.68) .066 | (38.91) 1.532 | (35.56) 1.400 | (16.64) .655 | | | | |
| 32 | (1.68) .066 | (41.45) 1.632 | (38.10) 1.500 | (16.64) .655 | | | | |
| 34 | (1.68) .066 | (43.99) 1.732 | (40.64) 1.600 | (16.64) .655 | (16.76) .660 | | | |
| 36 | (1.68) .066 | (46.53) 1.832 | (43.18) 1.700 | (16.64) .655 | (16.76) .660 | | | |
| 38 | (1.68) .066 | (49.07) 1.932 | (45.72) 1.800 | (16.64) .655 | (16.76) .660 | | | |
| 40 | (1.68) .066 | (51.61) 2.032 | (48.26) 1.900 | (16.64) .655 | (16.76) .660 | | | |
| 42 | (1.68) .066 | (54.15) 2.132 | (50.80) 2.000 | (16.64) .655 | (16.76) .660 | | | |
| 44 | (1.68) .066 | (56.69) 2.232 | (53.34) 2.100 | (19.05) .750 | (16.76) .660 | | | |
| 46 | (1.68) .066 | (59.23) 2.332 | (55.88) 2.200 | (19.05) .750 | (16.76) .660 | | | |
| 48 | (1.68) .066 | (61.77) 2.432 | (58.42) 2.300 | (19.05) .750 | (16.76) .660 | | | |
| 50 | (1.68) .066 | (64.31) 2.532 | (60.96) 2.400 | (19.05) .750 | (16.76) .660 | | | |
| 52 | (1.68) .066 | (66.85) 2.632 | (63.50) 2.500 | (19.05) .750 | (16.76) .660 | | | |
| 54 | (1.68) .066 | (69.39) 2.732 | (66.04) 2.600 | (21.59) .850 | (21.84) .860 | | | |
| 56 | (1.68) .066 | (71.93) 2.832 | (68.58) 2.700 | (21.59) .850 | (21.84) .860 | | | |
| 58 | (1.68) .066 | (74.47) 2.932 | (71.12) 2.800 | (27.81) 1.095 | (26.92) 1.060 | | | |
| 60 | (1.68) .066 | (77.01) 3.032 | (73.66) 2.900 | (27.81) 1.095 | (26.92) 1.060 | | | |
| 62 | (1.68) .066 | (79.55) 3.132 | (76.20) 3.000 | (27.81) 1.095 | (26.92) 1.060 | | | |
| 64 | (1.68) .066 | (82.09) 3.232 | (78.74) 3.100 | (27.81) 1.095 | (26.92) 1.060 | | | |
| 66 | (1.68) .066 | (84.63) 3.332 | (81.28) 3.200 | (27.81) 1.095 | (26.92) 1.060 | | | |
| 68 | (1.68) .066 | (87.17) 3.432 | (83.82) 3.300 | (27.81) 1.095 | (26.92) 1.060 | | | |
| 70 | (1.68) .066 | (89.71) 3.532 | (86.36) 3.400 | (27.81) 1.095 | (26.92) 1.060 | | | |
| 72 | (1.68) .066 | (92.25) 3.632 | (88.90) 3.500 | (27.81) 1.095 | (26.92) 1.060 | | | |

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

| DIMENSION UNITS | SCALE |
|---|---|
| MM/IN | 4:1 |

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | MM | INCH |
|---|---|---|
| 4 PLACES | ± | ± |
| 3 PLACES | ± | ± 0.01 |
| 2 PLACES | ± 0.25 | ± 0.014 |
| 1 PLACE | ± 0.36 | ± |
| 0 PLACES | ± | ± |
| ANGULAR TOL | ± 0.5 ° | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REMOVED OBSOLETED PART NUMBERS AS PER PCN#515931

EC NO: 812933
DRWN: MADHAM5 2025/02/12
CHK'D: GGA 2025/03/03
APPR: GGA 2025/03/03

INITIAL REVISION:
DRWN: SMILLER 2009/03/27
APPR: SMILLER 2009/03/27

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 74162

molex

SALES ASSEMBLY
WAFER-RIGHT ANGLE FULLY SHROUDED
.100 GRID

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| SD-74162-001 | PSD | 001 | C1 |

| MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|
| SEE TABLE | GENERAL MARKET | 1 OF 8 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2025/03/03 16:52:26 |
|---|---|---|---|

# VERSION A (1.68/.066 END CIRCUITS TO INSIDE END WALLS)

| ITEM NUMBER 74162 | P REF | PLATING FINISH | CONNECTOR END PLATING | | | | PC BOARD END PLATING | | | INFORMATION PK-70873 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | TYPE | J LENGTH | | R ± 0.38 / .015 | TYPE | L LENGTH | | |
| -0006-0072 | 3.30 / .130 | TIN | TIN | ——— | | 8.00 / .315 | TIN | ——— | | 0019 |
| -0106-0172 | 5.08 / .200 | TIN | TIN | ——— | | 8.00 / .315 | TIN | ——— | | 0019 |
| -0206-0272 | 3.30 / .130 | 15 GOLD | GOLD | 5.08 / .200 | | 8.00 / .315 | TIN | 2.54 / .100 | | 0019 |
| -0306-0372 | 5.08 / .200 | 15 GOLD | GOLD | 5.08 / .200 | | 8.00 / .315 | TIN | 2.54 / .100 | | 0019 |
| -0406-0472 | 3.30 / .130 | 30 GOLD | GOLD | 5.08 / .200 | | 8.00 / .315 | TIN | 2.54 / .100 | | 0019 |
| -0506-0572 | 5.08 / .200 | 30 GOLD | GOLD | 5.08 / .200 | | 8.00 / .315 | TIN | 2.54 / .100 | | 0019 |
| -0606-0672 | 3.30 / .130 | TIN | TIN | ——— | | 6.35 / .250 | TIN | ——— | | 0019 |

| NO. OF CKTS | ITEM NUMBER | ITEM NUMBER | ITEM NUMBER | ITEM NUMBER | ITEM NUMBER | ITEM NUMBER | ITEM NUMBER |
|---|---|---|---|---|---|---|---|
| 6 | 74162-0006 | 74162-0106 | 74162-0206 | 74162-0306 | 74162-0406 | 74162-0506 | 74162-0606 |
| 8 | 74162-0008 | 74162-0108 | 74162-0208 | 74162-0308 | 74162-0408 | 74162-0508 | 74162-0608 |
| 10 | 74162-0010 | 74162-0110 | 74162-0210 | 74162-0310 | 74162-0410 | 74162-0510 | 74162-0610 |
| 12 | 74162-0012 | 74162-0112 | 74162-0212 | 74162-0312 | 74162-0412 | 74162-0512 | 74162-0612 |
| 14 | 74162-0014 | 74162-0114 | 74162-0214 | 74162-0314 | 74162-0414 | 74162-0514 | 74162-0614 |
| 16 | 74162-0016 | 74162-0116 | 74162-0216 | 74162-0316 | 74162-0416 | 74162-0516 | 74162-0616 |
| 18 | 74162-0018 | 74162-0118 | 74162-0218 | 74162-0318 | 74162-0418 | 74162-0518 | 74162-0618 |
| 20 | 74162-0020 | 74162-0120 | 74162-0220 | 74162-0320 | 74162-0420 | 74162-0520 | 74162-0620 |
| 22 | 74162-0022 | 74162-0122 | 74162-0222 | 74162-0322 | 74162-0422 | 74162-0522 | 74162-0622 |
| 24 | 74162-0024 | 74162-0124 | 74162-0224 | 74162-0324 | 74162-0424 | 74162-0524 | 74162-0624 |
| 26 | 74162-0026 | 74162-0126 | 74162-0226 | 74162-0326 | 74162-0426 | 74162-0526 | 74162-0626 |
| 28 | 74162-0028 | 74162-0128 | 74162-0228 | 74162-0328 | 74162-0428 | 74162-0528 | 74162-0628 |
| 30 | 74162-0030 | 74162-0130 | 74162-0230 | 74162-0330 | 74162-0430 | 74162-0530 | 74162-0630 |
| 32 | 74162-0032 | 74162-0132 | 74162-0232 | 74162-0332 | 74162-0432 | 74162-0532 | 74162-0632 |
| 34 | 74162-0034 | 74162-0134 | 74162-0234 | 74162-0334 | 74162-0434 | 74162-0534 | 74162-0634 |
| 36 | 74162-0036 | 74162-0136 | 74162-0236 | 74162-0336 | 74162-0436 | 74162-0536 | 74162-0636 |
| 38 | 74162-0038 | 74162-0138 | 74162-0238 | 74162-0338 | 74162-0438 | 74162-0538 | 74162-0638 |
| 40 | 74162-0040 | 74162-0140 | 74162-0240 | 74162-0340 | 74162-0440 | 74162-0540 | 74162-0640 |
| 42 | 74162-0042 | 74162-0142 | 74162-0242 | 74162-0342 | 74162-0442 | 74162-0542 | 74162-0642 |
| 44 | 74162-0044 | 74162-0144 | 74162-0244 | 74162-0344 | 74162-0444 | 74162-0544 | 74162-0644 |
| 46 | 74162-0046 | 74162-0146 | 74162-0246 | 74162-0346 | 74162-0446 | 74162-0546 | 74162-0646 |
| 48 | 74162-0048 | 74162-0148 | 74162-0248 | 74162-0348 | 74162-0448 | 74162-0548 | 74162-0648 |
| 50 | 74162-0050 | 74162-0150 | 74162-0250 | 74162-0350 | 74162-0450 | 74162-0550 | 74162-0650 |
| 52 | 74162-0052 | 74162-0152 | 74162-0252 | 74162-0352 | 74162-0452 | 74162-0552 | 74162-0652 |
| 54 | 74162-0054 | 74162-0154 | 74162-0254 | 74162-0354 | 74162-0454 | 74162-0554 | 74162-0654 |
| 56 | 74162-0056 | 74162-0156 | 74162-0256 | 74162-0356 | 74162-0456 | 74162-0556 | 74162-0656 |
| 58 | 74162-0058 | 74162-0158 | 74162-0258 | 74162-0358 | 74162-0458 | 74162-0558 | 74162-0658 |
| 60 | 74162-0060 | 74162-0160 | 74162-0260 | 74162-0360 | 74162-0460 | 74162-0560 | 74162-0660 |
| 62 | 74162-0062 | 74162-0162 | 74162-0262 | 74162-0362 | 74162-0462 | 74162-0562 | 74162-0662 |
| 64 | 74162-0064 | 74162-0164 | 74162-0264 | 74162-0364 | 74162-0464 | 74162-0564 | 74162-0664 |
| 66 | 74162-0066 | 74162-0166 | 74162-0266 | 74162-0366 | 74162-0466 | 74162-0566 | 74162-0666 |
| 68 | 74162-0068 | 74162-0168 | 74162-0268 | 74162-0368 | 74162-0468 | 74162-0568 | 74162-0668 |
| 70 | 74162-0070 | 74162-0170 | 74162-0270 | 74162-0370 | 74162-0470 | 74162-0570 | 74162-0670 |
| 72 | 74162-0072 | 74162-0172 | 74162-0272 | 74162-0372 | 74162-0472 | 74162-0572 | 74162-0672 |

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

| DIMENSION UNITS | SCALE |
|---|---|
| MM/IN | 1:1 |

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | MM | INCH |
|---|---|---|
| 4 PLACES | ± | ± |
| 3 PLACES | ± | ± 0.01 |
| 2 PLACES | ± 0.25 | ± 0.014 |
| 1 PLACE | ± 0.36 | ± |
| 0 PLACES | ± | ± |
| ANGULAR TOL | ± 0.5 ° | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REMOVED OBSOLETED PART NUMBERS AS PER PCN#515931

| | | |
|---|---|---|
| EC NO: | 812933 | |
| DRWN: | MADHAM5 | 2025/02/12 |
| CHK'D: | GGA | 2025/03/03 |
| APPR: | GGA | 2025/03/03 |

INITIAL REVISION:

| | | |
|---|---|---|
| DRWN: | SMILLER | 2009/03/27 |
| APPR: | SMILLER | 2009/03/27 |

THIRD ANGLE PROJECTION

| DRAWING | SERIES |
|---|---|
| D-SIZE | 74162 |

molex

SALES ASSEMBLY
WAFER-RIGHT ANGLE FULLY SHROUDED
.100 GRID

PRODUCT CUSTOMER DRAWING

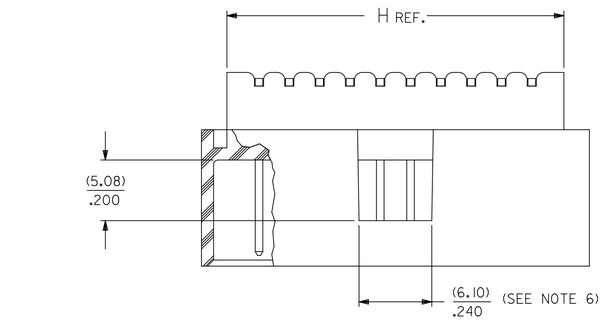
| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| SD-74162-001 | PSD | 001 | C1 |

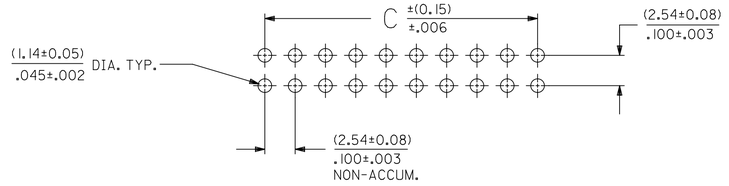
| MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|
| SEE TABLE | GENERAL MARKET | 2 OF 8 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2025/03/03 16:52:26 |
|---|---|---|---|

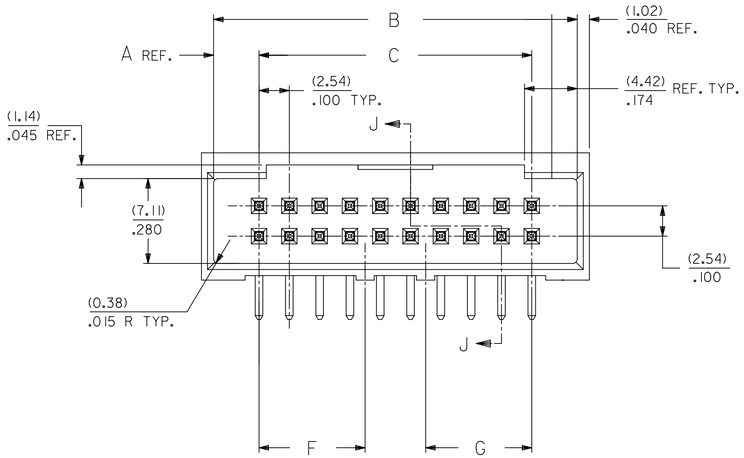
Customer drg approval required
REVISION: E1
DATE: 2021/08/31

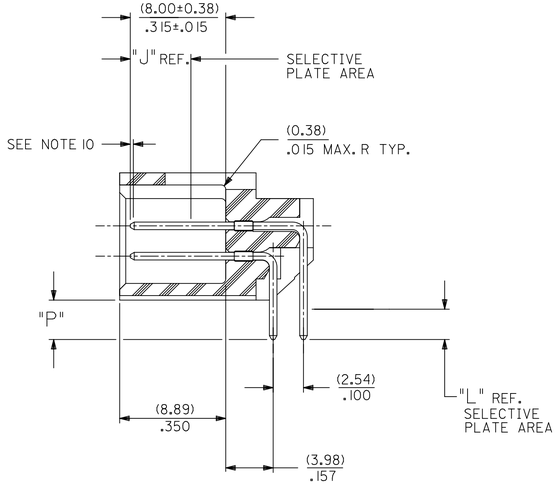
# VERSION B (3.81/.150 END CIRCUITS TO INSIDE END WALLS)



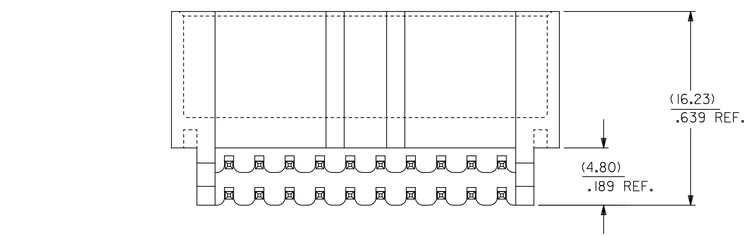



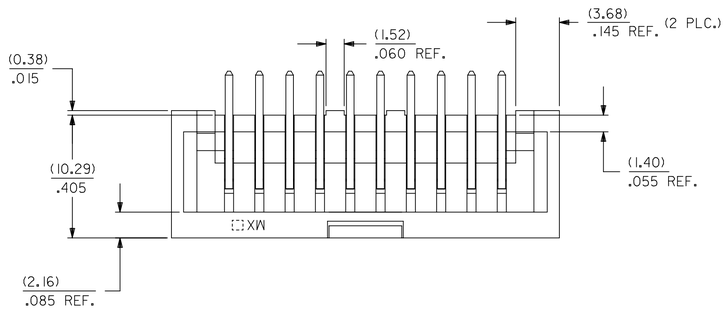

RECOMMENDED P.C. BOARD HOLE LAYOUT




SECTION J-J




NOTES
1. MATERIAL: SHROUDED WAFER: GLASS FILLED, LIQUID CRYSTAL POLYMER,
COLOR: BLACK; UL94V-0
PINS: COPPER ALLOY
2. FINISH:
TIN - 3.81 MICROMETERS/150 MICROINCHES MINIMUM TIN PLATE
OVER NICKEL UNDERPLATE OVERALL
15 GOLD - 0.38 MICROMETERS/15 MICROINCHES MINIMUM GOLD PLATE IN SELECT AREA
1.91 MICROMETERS/75 MICROINCHES MINIMUM TIN PLATE IN SELECT AREA
OVER NICKEL UNDERPLATE OVERALL

30 GOLD - 0.76 MICROMETERS/30 MICROINCHES MINIMUM GOLD PLATE IN SELECT AREA
1.91 MICROMETERS/75 MICROINCHES MINIMUM TIN PLATE IN SELECT AREA
OVER NICKEL UNDERPLATE OVERALL
3. PRODUCT SPECIFICATION: PS-74162-0001
4. PACKAGING INFORMATION: SEE CHARTS
5. FOR CHARTED DIMENSIONS AND ASSEMBLY NO.S NOT SHOWN ON THIS SHEET - SEE SHEET 4.
6. WINDOW NOT AVAILABLE ON 6 CKT.
7. 20 CIRCUIT SIZE SHOWN FOR ILLUSTRATION PURPOSES.
8. PIN PUSHOUT FORCE: (17.79 N)/4 LBS.
9. PINS MUST MEET SOLDERABLILITY SPEC. MIL-STD-202 METHOD 208B.
10. ROW TO ROW PIN HEIGHT VARIATION MUST NOT EXCEED (0.25)/.010 IN.
11. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

| CKT. | DIM. "A" | DIM. "B" | DIM. "C" | DIM. "F" | DIM. "G" | DIM. "H" | | |
|---|---|---|---|---|---|---|---|---|
| 06 | (3.81) .150 | (12.70) .500 | (5.08) .200 | | | (10.46) .412 | | |
| 08 | (3.81) .150 | (15.24) .600 | (7.62) .300 | | | (13.00) .512 | | |
| 10 | (3.81) .150 | (17.78) .700 | (10.16) .400 | | | (15.54) .612 | | |
| 12 | (3.81) .150 | (20.32) .800 | (12.70) .500 | | | (18.08) .712 | | |
| 14 | (3.81) .150 | (22.86) .900 | (15.24) .600 | | | (20.62) .812 | | |
| 16 | (3.81) .150 | (25.40) 1.000 | (17.78) .700 | | | (23.16) .912 | | |
| 18 | (3.81) .150 | (27.94) 1.100 | (20.32) .800 | | | (25.70) 1.012 | | |
| 20 | (3.81) .150 | (30.48) 1.200 | (22.86) .900 | | | (28.24) 1.112 | | |
| 22 | (3.81) .150 | (33.02) 1.300 | (25.40) 1.000 | | | (30.78) 1.212 | | |
| 24 | (3.81) .150 | (35.56) 1.400 | (27.94) 1.100 | (16.64) .655 | | (33.32) 1.312 | | |
| 26 | (3.81) .150 | (38.10) 1.500 | (30.48) 1.200 | (16.64) .655 | | (35.86) 1.412 | | |
| 28 | (3.81) .150 | (40.64) 1.600 | (33.02) 1.300 | (16.64) .655 | | (38.40) 1.512 | | |
| 30 | (3.81) .150 | (43.18) 1.700 | (35.56) 1.400 | (16.64) .655 | | (40.94) 1.612 | | |
| 32 | (3.81) .150 | (45.72) 1.800 | (38.10) 1.500 | (16.64) .655 | | (43.48) 1.712 | | |
| 34 | (3.81) .150 | (48.26) 1.900 | (40.64) 1.600 | (16.64) .655 | (16.76) .660 | (46.02) 1.812 | | |
| 36 | (3.81) .150 | (50.80) 2.000 | (43.18) 1.700 | (16.64) .655 | (16.76) .660 | (48.56) 1.912 | | |
| 38 | (3.81) .150 | (53.34) 2.100 | (45.72) 1.800 | (16.64) .655 | (16.76) .660 | (51.10) 2.012 | | |
| 40 | (3.81) .150 | (55.88) 2.200 | (48.26) 1.900 | (16.64) .655 | (16.76) .660 | (53.64) 2.112 | | |
| 42 | (3.81) .150 | (58.42) 2.300 | (50.80) 2.000 | (16.64) .655 | (16.76) .660 | (56.18) 2.212 | | |
| 44 | (3.81) .150 | (60.96) 2.400 | (53.34) 2.100 | (19.05) .750 | (16.76) .660 | (58.72) 2.312 | | |
| 46 | (3.81) .150 | (63.50) 2.500 | (55.88) 2.200 | (19.05) .750 | (16.76) .660 | (61.26) 2.412 | | |
| 48 | (3.81) .150 | (66.04) 2.600 | (58.42) 2.300 | (19.05) .750 | (16.76) .660 | (63.80) 2.512 | | |
| 50 | (3.81) .150 | (68.58) 2.700 | (60.96) 2.400 | (19.05) .750 | (16.76) .660 | (66.34) 2.612 | | |
| 52 | (3.81) .150 | (71.12) 2.800 | (63.50) 2.500 | (19.05) .750 | (16.76) .660 | (68.88) 2.712 | | |
| 54 | (3.81) .150 | (73.66) 2.900 | (66.04) 2.600 | (21.59) .850 | (21.84) .860 | (71.42) 2.812 | | |
| 56 | (3.81) .150 | (76.20) 3.000 | (68.58) 2.700 | (21.59) .850 | (21.84) .860 | (73.96) 2.912 | | |
| 58 | (3.81) .150 | (78.74) 3.100 | (71.12) 2.800 | (27.81) 1.095 | (26.92) 1.060 | (76.50) 3.012 | | |
| 60 | (3.81) .150 | (81.28) 3.200 | (73.66) 2.900 | (27.81) 1.095 | (26.92) 1.060 | (79.04) 3.112 | | |
| 62 | (3.81) .150 | (83.82) 3.300 | (76.20) 3.000 | (27.81) 1.095 | (26.92) 1.060 | (81.58) 3.212 | | |
| 64 | (3.81) .150 | (86.36) 3.400 | (78.74) 3.100 | (27.81) 1.095 | (26.92) 1.060 | (84.12) 3.312 | | |
| 66 | (3.81) .150 | (88.90) 3.500 | (81.28) 3.200 | (27.81) 1.095 | (26.92) 1.060 | (86.66) 3.412 | | |
| 68 | (3.81) .150 | (91.44) 3.600 | (83.82) 3.300 | (27.81) 1.095 | (26.92) 1.060 | (89.20) 3.512 | | |
| 70 | (3.81) .150 | (93.98) 3.700 | (86.36) 3.400 | (27.81) 1.095 | (26.92) 1.060 | (91.74) 3.612 | | |
| 72 | (3.81) .150 | (96.52) 3.800 | (88.90) 3.500 | (27.81) 1.095 | (26.92) 1.060 | (94.28) 3.712 | | |

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

| DIMENSION UNITS | SCALE |
|---|---|
| MM/IN | 4:1 |

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | MM | INCH |
|---|---|---|
| 4 PLACES | ± | ± |
| 3 PLACES | ± | ± 0.01 |
| 2 PLACES | ± 0.25 | ± 0.014 |
| 1 PLACE | ± 0.36 | ± |
| 0 PLACES | ± | ± |
| ANGULAR TOL | ± 0.5 ° | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REMOVED OBSOLETED PART NUMBERS AS PER PCN#515931

EC NO: 812933
DRWN: MADHAM5 2025/02/12
CHK'D: GGA 2025/03/03
APPR: GGA 2025/03/03

INITIAL REVISION:
DRWN: SMILLER 2009/03/27
APPR: SMILLER 2009/03/27

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 74162

molex

SALES ASSEMBLY
WAFER-RIGHT ANGLE FULLY SHROUDED
.100 GRID

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| SD-74162-001 | PSD | 001 | C1 |

| MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|
| SEE TABLE | GENERAL MARKET | 3 OF 8 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2025/03/03 16:52:26 |
|---|---|---|---|

TEMPLATE: 74xx-4xxx-master-tb-portrait-D
TEMPLATE REV: 1
DATE: 2021/08/31

# VERISION B (3.81/.150 END CIRCUITS TO INSIDE END WALLS)

| ITEM NUMBER 74162 | P REF | PLATING FINISH | CONNECTOR END PLATING | | | | PC BOARD END PLATING | | | INFORMATION PK-70873 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | TYPE | J LENGTH | | | TYPE | L LENGTH | | |
| -1006-1072 | 3.30 / .130 | TIN | TIN | ——— | | | TIN | ——— | | 0019 |
| -1106-1172 | 5.08 / .200 | TIN | TIN | ——— | | | TIN | ——— | | 0019 |
| -1206-1272 | 3.30 / .130 | 15 GOLD | GOLD | 5.08 / .200 | | | TIN | 2.54 / .100 | | 0019 |
| -1306-1372 | 5.08 / .200 | 15 GOLD | GOLD | 5.08 / .200 | | | TIN | 2.54 / .100 | | 0019 |
| -1406-1472 | 3.30 / .130 | 30 GOLD | GOLD | 5.08 / .200 | | | TIN | 2.54 / .100 | | 0019 |
| -1506-1572 | 5.08 / .200 | 30 GOLD | GOLD | 5.08 / .200 | | | TIN | 2.54 / .100 | | 0019 |
| | ——— | | | ——— | | | | ——— | | |

| NO. OF CKTS | ITEM NUMBER | ITEM NUMBER | ITEM NUMBER | ITEM NUMBER | ITEM NUMBER | ITEM NUMBER | ITEM NUMBER |
|---|---|---|---|---|---|---|---|
| 6 | 74162-1006 | 74162-1106 | 74162-1206 | 74162-1306 | 74162-1406 | 74162-1506 | |
| 8 | 74162-1008 | 74162-1108 | 74162-1208 | - - - | 74162-1408 | 74162-1508 | |
| 10 | 74162-1010 | 74162-1110 | 74162-1210 | 74162-1310 | 74162-1410 | 74162-1510 | |
| 12 | 74162-1012 | 74162-1112 | 74162-1212 | 74162-1312 | 74162-1412 | 74162-1512 | |
| 14 | 74162-1014 | 74162-1114 | 74162-1214 | 74162-1314 | 74162-1414 | 74162-1514 | |
| 16 | 74162-1016 | 74162-1116 | 74162-1216 | 74162-1316 | 74162-1416 | 74162-1516 | |
| 18 | 74162-1018 | 74162-1118 | 74162-1218 | 74162-1318 | 74162-1418 | 74162-1518 | |
| 20 | 74162-1020 | 74162-1120 | 74162-1220 | 74162-1320 | 74162-1420 | 74162-1520 | |
| 22 | 74162-1022 | 74162-1122 | 74162-1222 | 74162-1322 | 74162-1422 | 74162-1522 | |
| 24 | 74162-1024 | 74162-1124 | 74162-1224 | 74162-1324 | 74162-1424 | 74162-1524 | |
| 26 | 74162-1026 | 74162-1126 | 74162-1226 | 74162-1326 | 74162-1426 | 74162-1526 | |
| 28 | 74162-1028 | 74162-1128 | 74162-1228 | 74162-1328 | 74162-1428 | 74162-1528 | |
| 30 | 74162-1030 | 74162-1130 | 74162-1230 | 74162-1330 | 74162-1430 | 74162-1530 | |
| 32 | 74162-1032 | 74162-1132 | 74162-1232 | 74162-1332 | - - - | - - - | |
| 34 | 74162-1034 | 74162-1134 | 74162-1234 | 74162-1334 | 74162-1434 | 74162-1534 | |
| 36 | 74162-1036 | 74162-1136 | 74162-1236 | 74162-1336 | 74162-1436 | 74162-1536 | |
| 38 | 74162-1038 | 74162-1138 | 74162-1238 | 74162-1338 | 74162-1438 | 74162-1538 | |
| 40 | 74162-1040 | 74162-1140 | 74162-1240 | 74162-1340 | 74162-1440 | 74162-1540 | |
| 42 | 74162-1042 | 74162-1142 | 74162-1242 | 74162-1342 | 74162-1442 | 74162-1542 | |
| 44 | 74162-1044 | 74162-1144 | 74162-1244 | 74162-1344 | 74162-1444 | 74162-1544 | |
| 46 | 74162-1046 | 74162-1146 | 74162-1246 | 74162-1346 | 74162-1446 | 74162-1546 | |
| 48 | - - - | 74162-1148 | 74162-1248 | 74162-1348 | 74162-1448 | 74162-1548 | |
| 50 | 74162-1050 | 74162-1150 | 74162-1250 | 74162-1350 | 74162-1450 | 74162-1550 | |
| 52 | 74162-1052 | 74162-1152 | 74162-1252 | 74162-1352 | 74162-1452 | 74162-1552 | |
| 54 | 74162-1054 | 74162-1154 | 74162-1254 | 74162-1354 | 74162-1454 | 74162-1554 | |
| 56 | 74162-1056 | 74162-1156 | 74162-1256 | 74162-1356 | 74162-1456 | 74162-1556 | |
| 58 | 74162-1058 | 74162-1158 | 74162-1258 | 74162-1358 | 74162-1458 | 74162-1558 | |
| 60 | 74162-1060 | 74162-1160 | 74162-1260 | 74162-1360 | 74162-1460 | 74162-1560 | |
| 62 | 74162-1062 | 74162-1162 | 74162-1262 | 74162-1362 | 74162-1462 | 74162-1562 | |
| 64 | 74162-1064 | 74162-1164 | 74162-1264 | 74162-1364 | 74162-1464 | 74162-1564 | |
| 66 | 74162-1066 | 74162-1166 | 74162-1266 | 74162-1366 | 74162-1466 | 74162-1566 | |
| 68 | 74162-1068 | 74162-1168 | 74162-1268 | 74162-1368 | 74162-1468 | 74162-1568 | |
| 70 | 74162-1070 | 74162-1170 | 74162-1270 | 74162-1370 | 74162-1470 | 74162-1570 | |
| 72 | 74162-1072 | 74162-1172 | 74162-1272 | 74162-1372 | 74162-1472 | 74162-1572 | |

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

| DIMENSION UNITS | SCALE |
|---|---|
| MM/IN | 1:1 |

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | MM | INCH |
|---|---|---|
| 4 PLACES | ± | ± |
| 3 PLACES | ± | ± 0.01 |
| 2 PLACES | ± 0.25 | ± 0.014 |
| 1 PLACE | ± 0.36 | ± |
| 0 PLACES | ± | ± |
| ANGULAR TOL | ± 0.5 ° | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REMOVED OBSOLETED PART NUMBERS AS PER PCN#515931

EC NO: 812933
DRWN: MADHAM5 2025/02/12
CHK'D: GGA 2025/03/03
APPR: GGA 2025/03/03

INITIAL REVISION:
DRWN: SMILLER 2009/03/27
APPR: SMILLER 2009/03/27

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 74162

molex

SALES ASSEMBLY
WAFER-RIGHT ANGLE FULLY SHROUDED
.100 GRID

PRODUCT CUSTOMER DRAWING

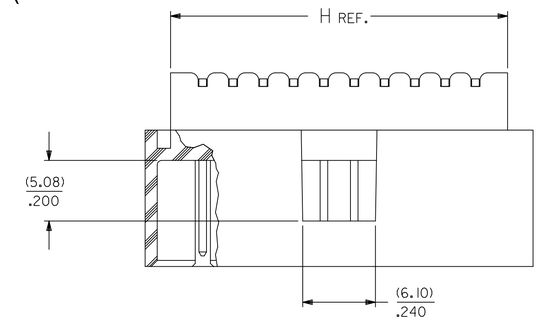
| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| SD-74162-001 | PSD | 001 | C1 |

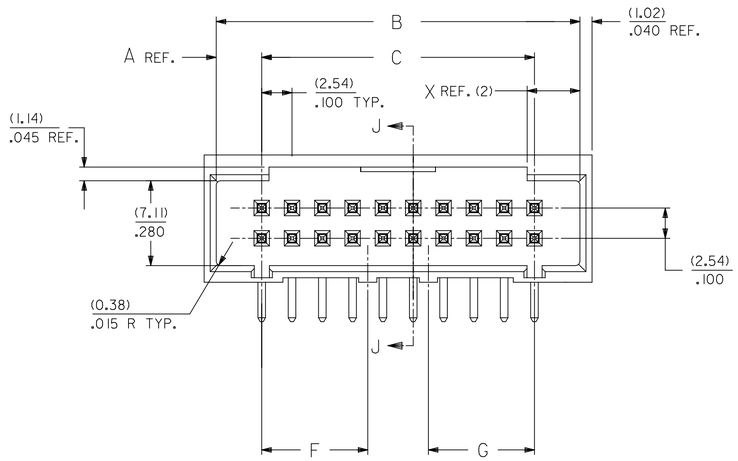
| MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|
| SEE TABLE | GENERAL MARKET | 4 OF 8 |

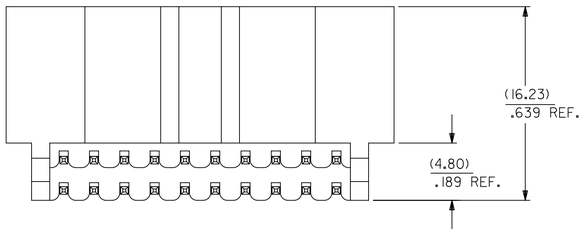
| DOCUMENT STATUS | P1 | RELEASE DATE | 2025/03/03 16:52:26 |
|---|---|---|---|

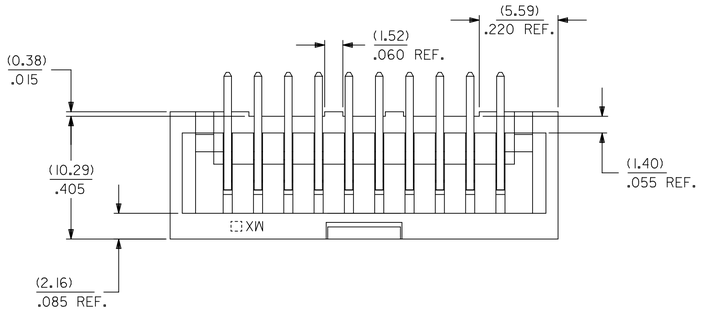
# VERSION C WITH POLARIZATION SLOTS

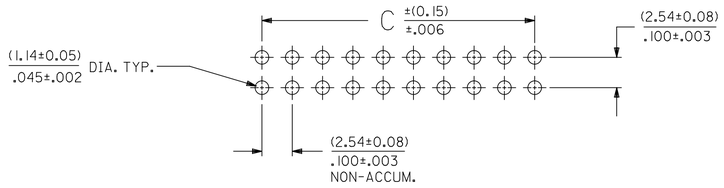
# (3.81/.150 END CIRCUITS TO INSIDE END WALLS)



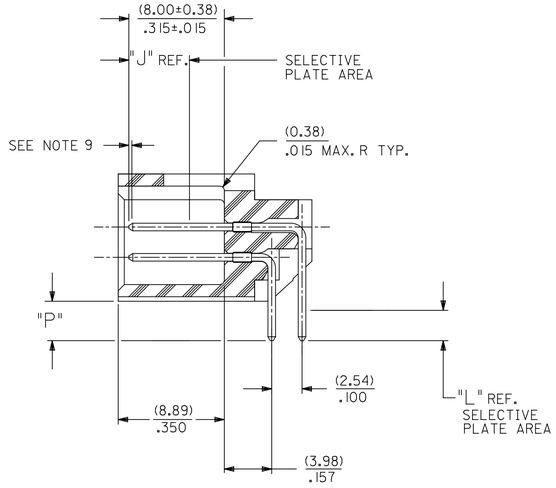




RECOMMENDED P.C. BOARD HOLE LAYOUT




SECTION J-J

NOTES

1. MATERIAL: SHROUDED WAFER: GLASS FILLED, LIQUID CRYSTAL POLYMER,
   COLOR: BLACK; UL94V-0
   PINS: COPPER ALLOY
2. FINISH:
   TIN - 3.81 MICROMETERS/150 MICROINCHES MINIMUM TIN PLATE
   OVER NICKEL UNDERPLATE OVERALL
   15 GOLD - 0.38 MICROMETERS/15 MICROINCHES MINIMUM GOLD PLATE IN SELECT AREA
   1.91 MICROMETERS/75 MICROINCHES MINIMUM TIN PLATE IN SELECT AREA
   OVER NICKEL UNDERPLATE OVERALL

   30 GOLD - 0.76 MICROMETERS/30 MICROINCHES MINIMUM GOLD PLATE IN SELECT AREA
   1.91 MICROMETERS/75 MICROINCHES MINIMUM TIN PLATE IN SELECT AREA
   OVER NICKEL UNDERPLATE OVERALL
3. PRODUCT SPECIFICATION: PS-74162-0001
4. PACKAGING INFORMATION: SEE CHARTS
5. FOR CHARTED DIMENSIONS AND ASSEMBLY NO.S NOT SHOWN ON THIS SHEET - SEE SHEET 6.
6. 20 CIRCUIT SIZE SHOWN FOR ILLUSTRATION PURPOSES.
7. PIN PUSHOUT FORCE: (17.79 N)/4 LBS MINIMUM.
8. PINS MUST MEET SOLDERABLILITY SPEC. MIL-STD-202 METHOD 208B.
9. ROW TO ROW PIN HEIGHT VARIATION MUST NOT EXCEED (0.25)/.010 IN.
10. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

| CKT. | DIM. "A" | DIM. "B" | DIM. "C" | DIM. "F" | DIM. "G" | DIM. "H" | DIM. "X" | |
|---|---|---|---|---|---|---|---|---|
| 06 | (3.81) .150 | (12.70) .500 | (5.08) .200 | | | (10.46) .412 | (3.30) .130 | |
| 08 | (3.81) .150 | (15.24) .600 | (7.62) .300 | | | (13.00) .512 | (3.30) .130 | |
| 10 | (3.81) .150 | (17.78) .700 | (10.16) .400 | | | (15.54) .612 | (4.42) .174 | |
| 12 | (3.81) .150 | (20.32) .800 | (12.70) .500 | | | (18.08) .712 | (4.42) .174 | |
| 14 | (3.81) .150 | (22.86) .900 | (15.24) .600 | | | (20.62) .812 | (4.42) .174 | |
| 16 | (3.81) .150 | (25.40) 1.000 | (17.78) .700 | | | (23.16) .912 | (4.42) .174 | |
| 18 | (3.81) .150 | (27.94) 1.100 | (20.32) .800 | | | (25.70) 1.012 | (4.42) .174 | |
| 20 | (3.81) .150 | (30.48) 1.200 | (22.86) .900 | | | (28.24) 1.112 | (4.42) .174 | |
| 22 | (3.81) .150 | (33.02) 1.300 | (25.40) 1.000 | | | (30.78) 1.212 | (4.42) .174 | |
| 24 | (3.81) .150 | (35.56) 1.400 | (27.94) 1.100 | (16.64) .655 | | (33.32) 1.312 | (4.42) .174 | |
| 26 | (3.81) .150 | (38.10) 1.500 | (30.48) 1.200 | (16.64) .655 | | (35.86) 1.412 | (4.42) .174 | |
| 28 | (3.81) .150 | (40.64) 1.600 | (33.02) 1.300 | (16.64) .655 | | (38.40) 1.512 | (4.42) .174 | |
| 30 | (3.81) .150 | (43.18) 1.700 | (35.56) 1.400 | (16.64) .655 | | (40.94) 1.612 | (4.42) .174 | |
| 32 | (3.81) .150 | (45.72) 1.800 | (38.10) 1.500 | (16.64) .655 | | (43.48) 1.712 | (4.42) .174 | |
| 34 | (3.81) .150 | (48.26) 1.900 | (40.64) 1.600 | (16.64) .655 | (16.76) .660 | (46.02) 1.812 | (4.42) .174 | |
| 36 | (3.81) .150 | (50.80) 2.000 | (43.18) 1.700 | (16.64) .655 | (16.76) .660 | (48.56) 1.912 | (4.42) .174 | |
| 38 | (3.81) .150 | (53.34) 2.100 | (45.72) 1.800 | (16.64) .655 | (16.76) .660 | (51.10) 2.012 | (4.42) .174 | |
| 40 | (3.81) .150 | (55.88) 2.200 | (48.26) 1.900 | (16.64) .655 | (16.76) .660 | (53.64) 2.112 | (4.42) .174 | |
| 42 | (3.81) .150 | (58.42) 2.300 | (50.80) 2.000 | (16.64) .655 | (16.76) .660 | (56.18) 2.212 | (4.42) .174 | |
| 44 | (3.81) .150 | (60.96) 2.400 | (53.34) 2.100 | (19.05) .750 | (16.76) .660 | (58.72) 2.312 | (4.42) .174 | |
| 46 | (3.81) .150 | (63.50) 2.500 | (55.88) 2.200 | (19.05) .750 | (16.76) .660 | (61.26) 2.412 | (4.42) .174 | |
| 48 | (3.81) .150 | (66.04) 2.600 | (58.42) 2.300 | (19.05) .750 | (16.76) .660 | (63.80) 2.512 | (4.42) .174 | |
| 50 | (3.81) .150 | (68.58) 2.700 | (60.96) 2.400 | (19.05) .750 | (16.76) .660 | (66.34) 2.612 | (4.42) .174 | |
| 52 | (3.81) .150 | (71.12) 2.800 | (63.50) 2.500 | (19.05) .750 | (16.76) .660 | (68.88) 2.712 | (4.42) .174 | |
| 54 | (3.81) .150 | (73.66) 2.900 | (66.04) 2.600 | (21.59) .850 | (21.84) .860 | (71.42) 2.812 | (4.42) .174 | |
| 56 | (3.81) .150 | (76.20) 3.000 | (68.58) 2.700 | (21.59) .850 | (21.84) .860 | (73.96) 2.912 | (4.42) .174 | |
| 58 | (3.81) .150 | (78.74) 3.100 | (71.12) 2.800 | (27.81) 1.095 | (26.92) 1.060 | (76.50) 3.012 | (4.42) .174 | |
| 60 | (3.81) .150 | (81.28) 3.200 | (73.66) 2.900 | (27.81) 1.095 | (26.92) 1.060 | (79.04) 3.112 | (4.42) .174 | |
| 62 | (3.81) .150 | (83.82) 3.300 | (76.20) 3.000 | (27.81) 1.095 | (26.92) 1.060 | (81.58) 3.212 | (4.42) .174 | |
| 64 | (3.81) .150 | (86.36) 3.400 | (78.74) 3.100 | (27.81) 1.095 | (26.92) 1.060 | (84.12) 3.312 | (4.42) .174 | |
| 66 | (3.81) .150 | (88.90) 3.500 | (81.28) 3.200 | (27.81) 1.095 | (26.92) 1.060 | (86.66) 3.412 | (4.42) .174 | |
| 68 | (3.81) .150 | (91.44) 3.600 | (83.82) 3.300 | (27.81) 1.095 | (26.92) 1.060 | (89.20) 3.512 | (4.42) .174 | |
| 70 | (3.81) .150 | (93.98) 3.700 | (86.36) 3.400 | (27.81) 1.095 | (26.92) 1.060 | (91.74) 3.612 | (4.42) .174 | |
| 72 | (3.81) .150 | (96.52) 3.800 | (88.90) 3.500 | (27.81) 1.095 | (26.92) 1.060 | (94.28) 3.712 | (4.42) .174 | |

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

| | | | |
|---|---|---|---|
| DIMENSION UNITS: MM/IN | SCALE: 4:1 | | |
| GENERAL TOLERANCES (UNLESS SPECIFIED) | MM | INCH | |
| 4 PLACES | ± | ± | |
| 3 PLACES | ± | ± 0.01 | |
| 2 PLACES | ± 0.25 | ± 0.014 | |
| 1 PLACE | ± 0.36 | ± | |
| 0 PLACES | ± | ± | |
| ANGULAR TOL | ± 0.5 ° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REMOVED OBSOLETED PART NUMBERS AS PER PCN#515931

EC NO: 812933
DRWN: MADHAM5 2025/02/12
CHK'D: GGA 2025/03/03
APPR: GGA 2025/03/03

INITIAL REVISION:
DRWN: SMILLER 2009/03/27
APPR: SMILLER 2009/03/27

molex

SALES ASSEMBLY
WAFER-RIGHT ANGLE FULLY SHROUDED
.100 GRID

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| SD-74162-001 | PSD | 001 | C1 |

| THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|---|---|---|
| | D-SIZE | 74162 | SEE TABLE | GENERAL MARKET | 5 OF 8 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2025/03/03 16:52:26 |
|---|---|---|---|

# VERSION C WITH POLARIZATION SLOTS
# (3.81/.150 END CIRCUITS TO INSIDE END WALLS)

| ITEM NUMBER 74162 | P REF | PLATING FINISH | CONNECTOR END PLATING | | | | PC BOARD END PLATING | | | INFORMATION PK-70873 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | TYPE | J LENGTH | | | TYPE | L LENGTH | M MEAS. | |
| -2006-2072 | 3.30 / .130 | TIN | TIN | ——— | | | TIN | ——— | | 0019 |
| -2106-2172 | 5.08 / .200 | TIN | TIN | ——— | | | TIN | ——— | | 0019 |
| -2206-2272 | 3.30 / .130 | 15 GOLD | GOLD | 5.08 / .200 | | | TIN | 2.54 / .100 | | 0019 |
| -2306-2372 | 5.08 / .200 | 15 GOLD | GOLD | 5.08 / .200 | | | TIN | 2.54 / .100 | | 0019 |
| -2406-2472 | 3.30 / .130 | 30 GOLD | GOLD | 5.08 / .200 | | | TIN | 2.54 / .100 | | 0019 |
| -2506-2572 | 5.08 / .200 | 30 GOLD | GOLD | 5.08 / .200 | | | TIN | 2.54 / .100 | | 0019 |
| | ——— | | | ——— | | | | ——— | | |

| NO. OF CKTS | ITEM NUMBER | ITEM NUMBER | ITEM NUMBER | ITEM NUMBER | ITEM NUMBER | ITEM NUMBER | ITEM NUMBER |
|---|---|---|---|---|---|---|---|
| 6 | 74162-2006 | 74162-2106 | 74162-2206 | 74162-2306 | 74162-2406 | 74162-2506 | |
| 8 | 74162-2008 | 74162-2108 | 74162-2208 | 74162-2308 | 74162-2408 | 74162-2508 | |
| 10 | 74162-2010 | 74162-2110 | 74162-2210 | 74162-2310 | 74162-2410 | 74162-2510 | |
| 12 | 74162-2012 | 74162-2112 | 74162-2212 | 74162-2312 | 74162-2412 | 74162-2512 | |
| 14 | 74162-2014 | 74162-2114 | 74162-2214 | 74162-2314 | 74162-2414 | 74162-2514 | |
| 16 | 74162-2016 | 74162-2116 | 74162-2216 | 74162-2316 | 74162-2416 | 74162-2516 | |
| 18 | 74162-2018 | 74162-2118 | 74162-2218 | 74162-2318 | 74162-2418 | 74162-2518 | |
| 20 | 74162-2020 | 74162-2120 | 74162-2220 | 74162-2320 | 74162-2420 | 74162-2520 | |
| 22 | 74162-2022 | 74162-2122 | 74162-2222 | 74162-2322 | 74162-2422 | 74162-2522 | |
| 24 | 74162-2024 | 74162-2124 | 74162-2224 | 74162-2324 | 74162-2424 | 74162-2524 | |
| 26 | 74162-2026 | 74162-2126 | 74162-2226 | 74162-2326 | 74162-2426 | 74162-2526 | |
| 28 | 74162-2028 | 74162-2128 | 74162-2228 | 74162-2328 | 74162-2428 | 74162-2528 | |
| 30 | 74162-2030 | 74162-2130 | 74162-2230 | 74162-2330 | 74162-2430 | 74162-2530 | |
| 32 | 74162-2032 | 74162-2132 | 74162-2232 | 74162-2332 | 74162-2432 | 74162-2532 | |
| 34 | 74162-2034 | 74162-2134 | 74162-2234 | 74162-2334 | 74162-2434 | 74162-2534 | |
| 36 | 74162-2036 | 74162-2136 | 74162-2236 | 74162-2336 | 74162-2436 | 74162-2536 | |
| 38 | 74162-2038 | 74162-2138 | 74162-2238 | 74162-2338 | 74162-2438 | 74162-2538 | |
| 40 | 74162-2040 | 74162-2140 | 74162-2240 | 74162-2340 | 74162-2440 | 74162-2540 | |
| 42 | 74162-2042 | 74162-2142 | 74162-2242 | 74162-2342 | 74162-2442 | 74162-2542 | |
| 44 | 74162-2044 | 74162-2144 | 74162-2244 | 74162-2344 | 74162-2444 | 74162-2544 | |
| 46 | 74162-2046 | 74162-2146 | 74162-2246 | 74162-2346 | 74162-2446 | 74162-2546 | |
| 48 | 74162-2048 | 74162-2148 | 74162-2248 | 74162-2348 | 74162-2448 | 74162-2548 | |
| 50 | 74162-2050 | 74162-2150 | 74162-2250 | 74162-2350 | 74162-2450 | 74162-2550 | |
| 52 | 74162-2052 | 74162-2152 | 74162-2252 | 74162-2352 | 74162-2452 | 74162-2552 | |
| 54 | 74162-2054 | 74162-2154 | 74162-2254 | 74162-2354 | 74162-2454 | 74162-2554 | |
| 56 | 74162-2056 | 74162-2156 | 74162-2256 | 74162-2356 | 74162-2456 | 74162-2556 | |
| 58 | 74162-2058 | 74162-2158 | 74162-2258 | 74162-2358 | 74162-2458 | 74162-2558 | |
| 60 | 74162-2060 | 74162-2160 | 74162-2260 | 74162-2360 | 74162-2460 | 74162-2560 | |
| 62 | 74162-2062 | 74162-2162 | 74162-2262 | 74162-2362 | 74162-2462 | 74162-2562 | |
| 64 | 74162-2064 | 74162-2164 | 74162-2264 | 74162-2364 | 74162-2464 | 74162-2564 | |
| 66 | 74162-2066 | 74162-2166 | 74162-2266 | 74162-2366 | 74162-2466 | 74162-2566 | |
| 68 | 74162-2068 | 74162-2168 | 74162-2268 | 74162-2368 | 74162-2468 | 74162-2568 | |
| 70 | 74162-2070 | 74162-2170 | 74162-2270 | 74162-2370 | 74162-2470 | 74162-2570 | |
| 72 | 74162-2072 | 74162-2172 | 74162-2272 | 74162-2372 | 74162-2472 | 74162-2572 | |

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

| DIMENSION UNITS | SCALE |
|---|---|
| MM/IN | 1:1 |

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | MM | INCH |
|---|---|---|
| 4 PLACES | ± | ± |
| 3 PLACES | ± | ± 0.01 |
| 2 PLACES | ± 0.25 | ± 0.014 |
| 1 PLACE | ± 0.36 | ± |
| 0 PLACES | ± | ± |
| ANGULAR TOL | ± 0.5 ° | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REMOVED OBSOLETED PART NUMBERS AS PER PCN#515931

EC NO: 812933
DRWN: MADHAM5 2025/02/12
CHK'D: GGA 2025/03/03
APPR: GGA 2025/03/03

INITIAL REVISION:
DRWN: SMILLER 2009/03/27
APPR: SMILLER 2009/03/27

molex

SALES ASSEMBLY
WAFER-RIGHT ANGLE FULLY SHROUNDED
.100 GRID

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| SD-74162-001 | PSD | 001 | C1 |

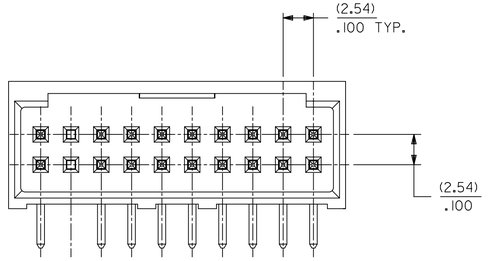
| THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|---|---|---|
| | D-SIZE | 74162 | SEE TABLE | GENERAL MARKET | 6 OF 8 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2025/03/03 16:52:26 |
|---|---|---|---|

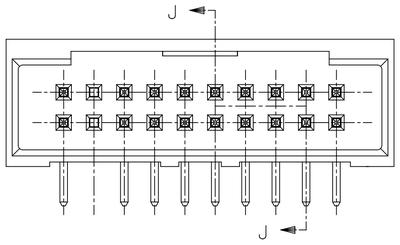
PCPRINT 10 by Angle Number for print C
Copyright Molex 2009
DATE: 2025/03/07

# VERSION A, B, OR C WITH VOID(S)

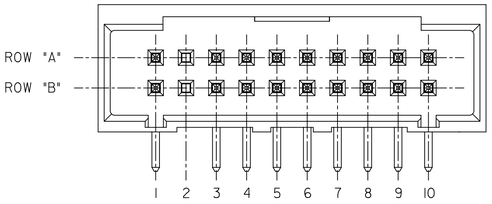
VERSION A




VERSION B



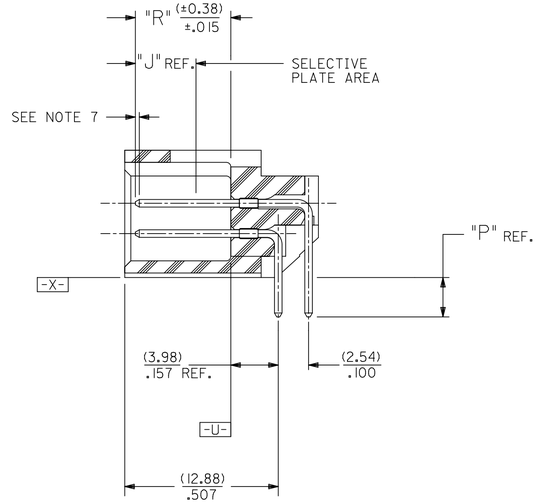

VERSION C




USE FOR LOCATING VOIDED PINS ON ALL STYLES

LETTERS AND NUMBERS ARE NOT DESIGNATED ON WAFER HOUSING

(SEE NOTE 10 AND CHART ON SHEET 8)




SECTION J-J

NOTES

1. MATERIAL: SHROUDED WAFER: GLASS FILLED, LIQUID CRYSTAL POLYMER,
   COLOR: BLACK; UL94V-0
   PINS: COPPER ALLOY
2. FINISH:
   TIN - 3.81 MICROMETERS/150 MICROINCHES MINIMUM TIN PLATE
   OVER NICKEL UNDERPLATE OVERALL
   15 GOLD - 0.38 MICROMETERS/15 MICROINCHES MINIMUM GOLD PLATE IN SELECT AREA
   1.91 MICROMETERS/75 MICROINCHES MINIMUM TIN PLATE IN SELECT AREA
   OVER NICKEL UNDERPLATE OVERALL

   30 GOLD - 0.76 MICROMETERS/30 MICROINCHES MINIMUM GOLD PLATE IN SELECT AREA
   1.91 MICROMETERS/75 MICROINCHES MINIMUM TIN PLATE IN SELECT AREA
   OVER NICKEL UNDERPLATE OVERALL
3. PRODUCT SPECIFICATION: PS-74162-0001
4. PACKAGING INFORMATION: SEE CHARTS
5. PINS MUST MEET SOLDERABLILITY SPEC. MIL-STD-202 METHOD 208B.
6. PIN PUSHOUT FORCE: (17.79 N)/4 LBS MINIMUM.
7. ROW TO ROW PIN HEIGHT VARIATION MUST NOT EXCEED (0.25)/.010 IN.
8. 20 CIRCUIT SIZE WITH PINS VOIDED IN LOCATIONS
   A-2 AND B-2 SHOWN FOR ILLUSTRATION PURPOSES.
9. FOR VARIABLE DIMENSIONS, CIRCUIT SIZE, WAFER STYLE
   AND ASSEMBLY NUMBER - SEE SHEET 8.
10. FOR VOIDED PIN LOCATIONS SEE STYLE "C" AND CHART ON SHEET 8.
11. FOR DIMENSIONS NOT SHOWN, FIRST: DETERMINE THE SHROUDED WAFER STYLE
    FROM CHART ON SHEET 8; SECOND: USING WAFER STYLE, LOCATE THE CORRESPONDING
    SHEET WITH NON-VOIDED ASSEMBLIES AND DIMENSIONS
    FOR ALL CIRCUIT SIZES.
12. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC
    SPECIFICATION PS-45499-002.

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

| DIMENSION UNITS | SCALE |
|---|---|
| MM/IN | 4:1 |

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | MM | INCH |
|---|---|---|
| 4 PLACES | ± | ± |
| 3 PLACES | ± | ± 0.01 |
| 2 PLACES | ± 0.25 | ± 0.014 |
| 1 PLACE | ± 0.36 | ± |
| 0 PLACES | ± | ± |
| ANGULAR TOL | | ± 0.5 ° |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REMOVED OBSOLETED PART NUMBERS AS PER PCN#515931

EC NO: 812933
DRWN: MADHAM5 2025/02/12
CHK'D: GGA 2025/03/03
APPR: GGA 2025/03/03

INITIAL REVISION:
DRWN: SMILLER 2009/03/27
APPR: SMILLER 2009/03/27

molex

SALES ASSEMBLY
WAFER-RIGHT ANGLE FULLY SHROUDED
.100 GRID

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| SD-74162-001 | PSD | 001 | C1 |

| THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|---|---|---|
| | D-SIZE | 74162 | SEE TABLE | GENERAL MARKET | 7 OF 8 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2025/03/03 16:52:26 |
|---|---|---|---|

# VERSION A, B, OR C WITH VOID(S)

| ITEM NUMBER 74162 | SHROUDED WAFER STYLE SEE SHEET 7 | CKT SIZE | | R ± 0.38 / .015 | P REF | PLATING FINISH | CONNECTOR END PLATING TYPE | J LENGTH | | | PC BOARD END PLATING TYPE | L LENGTH | | VOIDED PIN LOCATION(S) (SEE NOTE 8 ON SHEET 7) ROW | POSITION | INFORMATION PK-70873 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 74162-3001 | B | 14 | | 8.00 / .315 | 3.30 / .130 | TIN | TIN | 5.08 / .200 | | | TIN | 2.54 / .100 | | A | 1 | 0019 |
| 74162-3002 | A | 16 | | 8.00 / .315 | 5.08 / .200 | TIN | TIN | 5.08 / .200 | | | TIN | 2.54 / .100 | | A | 8 | 0019 |
| 74612-3003 | A | 30 | | 8.00 / .315 | 3.30 / .130 | 15 GOLD | GOLD | 5.08 / .200 | | | TIN | 2.54 / .100 | | A | 4 | 0019 |
| X | X | | | 8.00 / .315 | 5.08 / .200 | 15 GOLD | GOLD | | | | TIN | | | | | |
| X | X | | | 8.00 / .315 | 3.30 / .130 | 30 GOLD | GOLD | | | | TIN | | | | | |
| X | X | | | 8.00 / .315 | 5.08 / .200 | 30 GOLD | GOLD | | | | TIN | | | | | |
| X | X | | | 6.35 / .250 | 3.30 / .130 | TIN | TIN | | | | TIN | | | | | |

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

DIMENSION UNITS: MM/IN | SCALE: 1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | MM | INCH |
|---|---|---|
| 4 PLACES | ± | ± |
| 3 PLACES | ± | ± 0.01 |
| 2 PLACES | ± 0.25 | ± 0.014 |
| 1 PLACE | ± 0.36 | ± |
| 0 PLACES | ± | ± |
| ANGULAR TOL | | ± 0.5 ° |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REMOVED OBSOLETED PART NUMBERS AS PER PCN#515931

EC NO: 812933
DRWN: MADHAM5 2025/02/12
CHK'D: GGA 2025/03/03
APPR: GGA 2025/03/03

INITIAL REVISION:
DRWN: SMILLER 2009/03/27
APPR: SMILLER 2009/03/27

molex

SALES ASSEMBLY
WAFER-RIGHT ANGLE FULLY SHROUNDED
.100 GRID

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| SD-74162-001 | PSD | 001 | C1 |

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 74162 | MATERIAL NUMBER: SEE TABLE | CUSTOMER: GENERAL MARKET | SHEET NUMBER: 8 OF 8

| DOCUMENT STATUS | P1 | RELEASE DATE | 2025/03/03 16:52:26 |
|---|---|---|---|