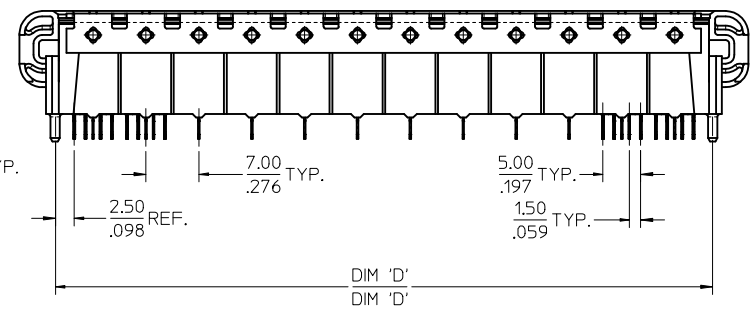
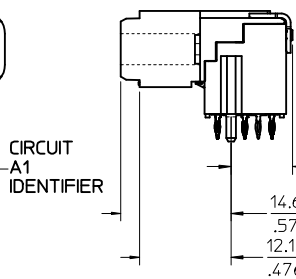
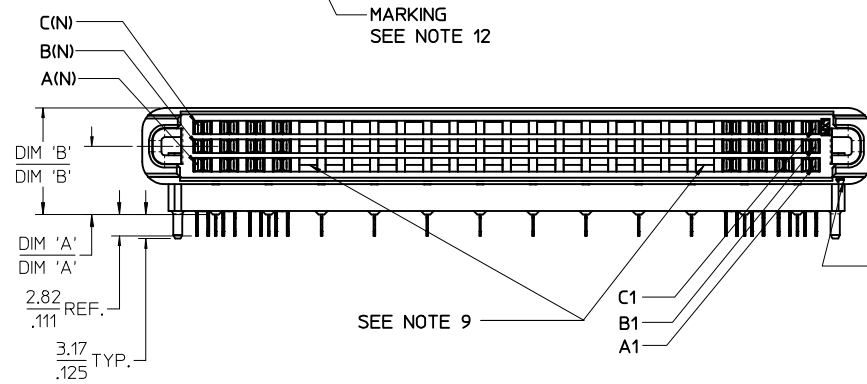
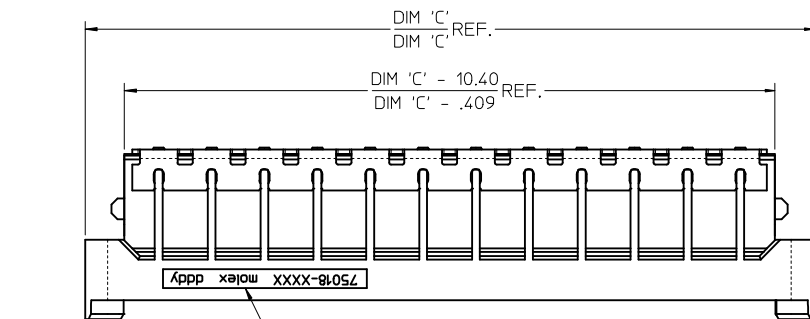
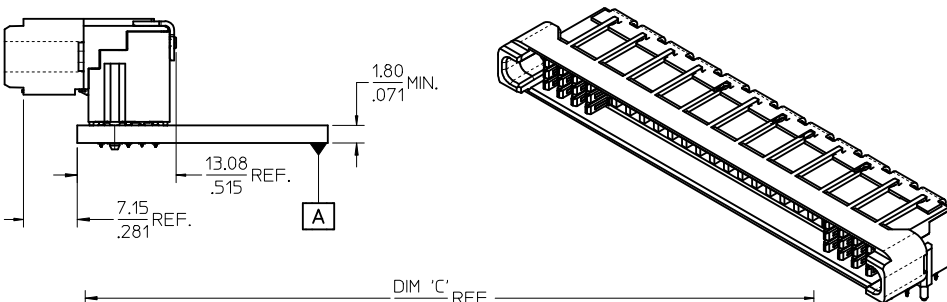


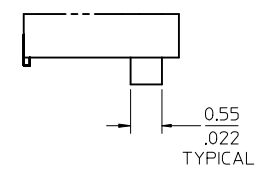
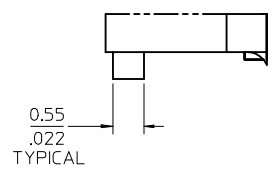
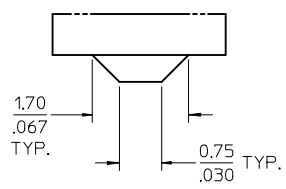
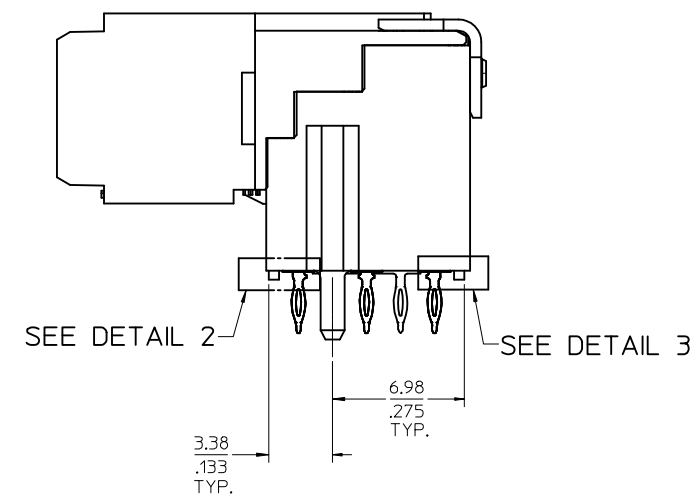
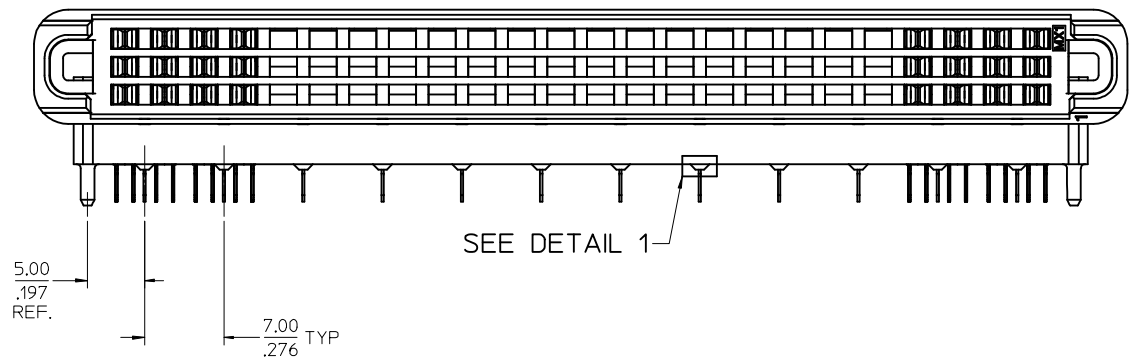
- NOTES:
- 1) MATERIALS:  
HOUSING - LIQUID CRYSTAL POLYMER, UL94 V-0  
WAFER DIELECTRIC - LIQUID CRYSTAL POLYMER, UL94 V-0  
CONTACT - COPPER ALLOY
  - 2) FINISHES:  
SEE SHEET 4
  - 3) PRODUCT SPECIFICATION: THIS PART CONFORMS TO MOLEX SPECIFICATION PS-75018-001.
  - 4) PACKAGING SPECIFICATION: THIS PART TO BE PACKAGED PER SPECIFICATION PK-75020-030.
  - 5) APPLICATION SPECIFICATION: THIS PART TO BE APPLIED PER SPECIFICATION PS-75018-001.  
APPLICATION TOOL AND INSTRUCTIONS PER AS-75018-001.
  - 6) MATING INFORMATION  
THIS PART MATES WITH 75019-XXXX.  
WILL MATE WITH MAXIMUM 1.27mm MIS-ALIGNMENT.  
WILL MATE WITH MAXIMUM 0.5° MIS-ALIGNMENT.
  - 7) FOR CIRCUIT DESIGNATION SEE SHEET 3
  - 8) FOR PCB INFORMATION SEE SHEET 3
  - 9) CIRCUITS IN THIS ZONE HAVE BEEN OMITTED TO SIMPLIFY THE MODEL. ACTUAL PRODUCT IS FULLY LOADED WITH TERMINALS.
  - 10) APPLICATION TOOLING KEEP OUT AREA. NO COMPONENTS ALLOWED IN THIS AREA.
  - 11) CONFORMS TO MOLEX COSMETIC SPECIFICATION PS-45499-002 & PS-45499-003, CLASS C.
  - 12) MARKING: PART NUMBER, MOLEX LOGO, DATE CODE
  - 13) RECOMMENDED DRILL SIZE 0.66±0.03 TO YIELD FINISHED PLATED THROUGH HOLE OF 0.55±0.05

|                                                                                                                               |          |             |                                                            |                                       |              |           |                                                                                                                                  |              |                                                        |              |                        |  |  |
|-------------------------------------------------------------------------------------------------------------------------------|----------|-------------|------------------------------------------------------------|---------------------------------------|--------------|-----------|----------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------------|--------------|------------------------|--|--|
| UPDATE TO NEW LOWER HSG<br>EC NO: UCP2014-2233<br>DRWN:RHIPPLE 2013/11/20<br>CHKD:MP0FF 2913.11.20<br>APPR:SMILLER 2013/11/27 | REV<br>J | DESCRIPTION | QUALITY SYMBOLS                                            | GENERAL TOLERANCES (UNLESS SPECIFIED) |              |           | DIMENSION STYLE                                                                                                                  |              | SCALE                                                  | DESIGN UNITS | THIRD ANGLE PROJECTION |  |  |
|                                                                                                                               |          |             |                                                            |                                       |              |           | MM/IN                                                                                                                            |              | 2:1                                                    | METRIC       |                        |  |  |
|                                                                                                                               |          |             |                                                            |                                       |              |           | DRAWN BY                                                                                                                         | DATE         | PLATEAU HS DOCK<br>FIXED CONNECTOR<br>NO GROUND FINGER |              |                        |  |  |
|                                                                                                                               |          |             |                                                            |                                       |              |           | CHECKED BY                                                                                                                       | DATE         |                                                        |              |                        |  |  |
|                                                                                                                               |          |             |                                                            |                                       |              |           | LANG                                                                                                                             | 03-OCT-29    |                                                        |              |                        |  |  |
|                                                                                                                               |          |             |                                                            |                                       |              |           | APPROVED BY                                                                                                                      | DATE         | molex                                                  |              |                        |  |  |
|                                                                                                                               |          |             |                                                            |                                       |              |           | BANAKIS                                                                                                                          | 03-OCT-29    |                                                        |              |                        |  |  |
|                                                                                                                               |          |             | MATERIAL NO.                                               |                                       | DOCUMENT NO. |           | SHEET NO.                                                                                                                        |              |                                                        |              |                        |  |  |
|                                                                                                                               |          |             | ANGULAR ±1/2°                                              |                                       |              | SEE TABLE |                                                                                                                                  | SD-75018-011 |                                                        | 1 OF 5       |                        |  |  |
|                                                                                                                               |          |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                       |              | SIZE      | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |              |                                                        |              |                        |  |  |

13 12 11 10 9 8 7 6 5 4 3 2 1

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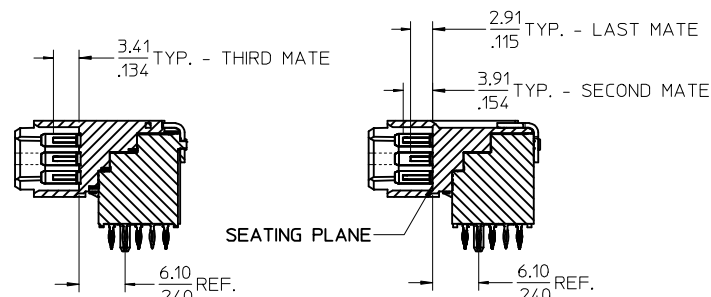


|                                                                                                                       |     |             |                 |                                                                                                                                   |          |                 |              |            |              |                                                                            |              |                     |
|-----------------------------------------------------------------------------------------------------------------------|-----|-------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|--------------|------------|--------------|----------------------------------------------------------------------------|--------------|---------------------|
| SEE SHEET 1<br>EC NO: UCP2014-2233<br>DRAWN: RHIPPLE 2013/11/20<br>CHKD: MPOFF 2913.11.20<br>APPR: SMILLER 2013/11/27 | REV | DESCRIPTION | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                             |          | DIMENSION STYLE |              | SCALE      | DESIGN UNITS | THIRD ANGLE PROJECTION                                                     |              |                     |
|                                                                                                                       |     |             |                 |                                                                                                                                   |          | MM/IN           |              | 3:1        | METRIC       |                                                                            |              |                     |
|                                                                                                                       |     |             |                 | 4 PLACES                                                                                                                          | ± ---    | ± ---           | DRAWN BY     | DATE       | TITLE        | PLATEAU HS DOCK<br>FIXED CONNECTOR<br>NO GROUND FINGER<br><br><b>molex</b> | SD-75018-011 | SHEET NO.<br>2 OF 5 |
|                                                                                                                       |     |             |                 |                                                                                                                                   | 3 PLACES | ± ---           | ± .005       | CHECKED BY |              |                                                                            |              |                     |
|                                                                                                                       |     |             |                 | 2 PLACES                                                                                                                          | ± 0.13   | ± .01           | LANG         | 03-OCT-29  |              |                                                                            |              |                     |
|                                                                                                                       |     |             |                 | 1 PLACE                                                                                                                           | ± 0.25   | ± ---           | APPROVED BY  | DATE       |              |                                                                            |              |                     |
|                                                                                                                       |     |             |                 | 0 PLACE                                                                                                                           | ±        | ±               | BANAK I S    | 03-OCT-29  |              |                                                                            |              |                     |
|                                                                                                                       |     |             |                 | ANGULAR ±1/2°                                                                                                                     |          |                 | MATERIAL NO. |            | DOCUMENT NO. |                                                                            |              |                     |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                            |     |             | SEE TABLE       |                                                                                                                                   |          |                 |              |            |              |                                                                            |              |                     |
|                                                                                                                       |     |             | SIZE            | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX.<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |          |                 |              |            |              |                                                                            |              |                     |

13 12 11 10 9 8 7 6 5 4 3 2 1

8.4  
.33 TYP.3.8  
.15 TYP.  
4.95 +0.15  
-1.15  
.195 +.006  
-0.045  
16.6  
.65 TYP.CONNECTOR SIDE OF PCB  
FIXED PCBC(N)  
B(N)  
A(N)NO EXPOSED TRACES ON  
SURFACE OF PCB IN  
CONNECTOR STAND OFF LOCATIONS  
CONNECTOR KEEP OUT AREA  
APPLICATION TOOLING  
KEEP OUT AREA (NOTES 5 & 10)C1  
B1  
A1ROW E  
ROW DDIM 'E' - 5.00  
DIM 'E' - .197 REF.  
DIM 'E' REF.  
DIM 'E' REF.  
DIM 'D' +0.10  
DIM 'D' +0.004  
**C** NOTE: DATUM 'C' IS  
CENTERLINE OF HOLESDIM 'C' - 6.50 TYP.  
DIM 'C' - .256  
DIM 'C' + 0.50 TYP.  
DIM 'C' + .020  
DIM 'C' + 5.50 TYP.  
DIM 'C' + .217

NOMINAL WIPE - FULL SEATED

FIRST MATE: 5.2mm  
SECOND MATE: 2.7mm  
THIRD MATE: 2.2mm  
LAST MATE: 1.7mm

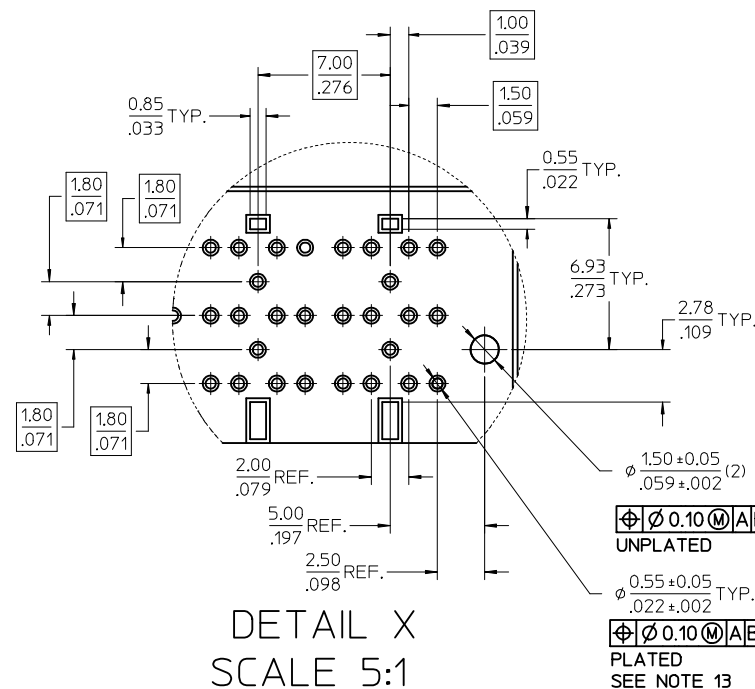
SECTION Y-Y

SECTION Z-Z

## CIRCUIT DESIGNATION

FIRST MATE: HOUSING - SIGNAL GROUND  
SECOND MATE: A1, C1, A(N), C(N) (FOR POWER RETURN)  
THIRD MATE: A2, B2, C2, A(N-1), B(N-1), C(N-1) & ALL OTHERS  
(A2, C2, A(N-1) & C(N-1) FOR POWER)  
(ALL OTHERS SIGNAL)  
LAST MATE: B1, B(N) (FOR CARD DETECT)ALL COLUMNS FROM 3 THROUGH (N-2) ARE SUITABLE FOR  
DIFFERENTIAL PAIRS  
EG: A3-A4, B3-B4, C3-C4, A(N-2)-A(N-3), B(N-2)-B(N-3)

SIGNAL GROUND: ROWS D &amp; E

DETAIL X  
SCALE 5:1

|                                                                                                                       |             |                 |                                                            |        |                          |                     |                                                                                                                                  |                                                                                                                         |                                                                                                                 |  |
|-----------------------------------------------------------------------------------------------------------------------|-------------|-----------------|------------------------------------------------------------|--------|--------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--|
| SEE SHEET 1<br>EC NO: UCP2014-2233<br>DRAWN: WHIPPLE 2013/11/20<br>CHKD: MPOFF 2913.11.20<br>APPR: SMILLER 2013/11/27 | DESCRIPTION | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |        | DIMENSION STYLE<br>MM/IN |                     | SCALE<br>2:1                                                                                                                     | DESIGN UNITS<br>METRIC                                                                                                  |  THIRD ANGLE<br>PROJECTION |  |
|                                                                                                                       |             |                 |                                                            | mm     | INCH                     | DRAWN BY<br>LANG    | DATE<br>03-OCT-29                                                                                                                | TITLE<br>PLATEAU HS DOCK<br>FIXED CONNECTOR<br>NO GROUND FINGER<br><br><b>molex</b><br><br>DOCUMENT NO.<br>SD-75018-011 |                                                                                                                 |  |
|                                                                                                                       |             |                 | 4 PLACES                                                   | ± ---  | ± ---                    | CHECKED BY          | DATE                                                                                                                             |                                                                                                                         |                                                                                                                 |  |
|                                                                                                                       |             |                 | 3 PLACES                                                   | ± ---  | ± .005                   | LANG                | 03-OCT-29                                                                                                                        |                                                                                                                         |                                                                                                                 |  |
|                                                                                                                       |             |                 | 2 PLACES                                                   | ± 0.13 | ± .01                    | APPROVED BY         | DATE                                                                                                                             |                                                                                                                         |                                                                                                                 |  |
|                                                                                                                       |             |                 | 1 PLACE                                                    | ± 0.25 | ± ---                    | BANAK I S           | 03-OCT-29                                                                                                                        |                                                                                                                         |                                                                                                                 |  |
|                                                                                                                       |             |                 | 0 PLACE                                                    | ±      | ±                        | MATERIAL NO.        |                                                                                                                                  |                                                                                                                         |                                                                                                                 |  |
|                                                                                                                       |             |                 | ANGULAR ±1/2°                                              |        | SEE TABLE                |                     |                                                                                                                                  |                                                                                                                         |                                                                                                                 |  |
|                                                                                                                       |             |                 | 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 |                                                                                                                         |                                                                                                                 |  |
|                                                                                                                       |             |                 |                                                            |        |                          |                     |                                                                                                                                  |                                                                                                                         |                                                                                                                 |  |
| REV                                                                                                                   |             |                 |                                                            |        |                          | SHEET NO.<br>3 OF 5 |                                                                                                                                  |                                                                                                                         |                                                                                                                 |  |

## LEAD-FREE ASSEMBLIES - OBSOLETE

| ITEM NUMBER | CIRCUIT SIZE | NO. OF COLUMNS 'N' | CENTERLINE DIMENSION 'A' mm(in) | O/A HEIGHT DIMENSION 'B' mm(in) | O/A LENGTH DIMENSION 'C' mm(in) | PEG TO PEG DIMENSION 'D' mm(in) | FIRST-LAST DIMENSION 'E' mm(in) | PLATING FINISH | WAFER OPTION |
|-------------|--------------|--------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------|--------------|
| 75018-0021  | 144          | 24                 | 4.74 (.187)                     | 9.78 (.385)                     | 96.50 (3.799)                   | 87.00 (3.425)                   | 82.00 (3.228)                   | FINISH 1       | WELDED       |
| 75018-0022  | 144          | 24                 | 5.74 (.226)                     | 10.78 (.424)                    | 96.50 (3.799)                   | 87.00 (3.425)                   | 82.00 (3.228)                   |                |              |
| 75018-0023  | 144          | 24                 | 8.74 (.344)                     | 13.78 (.543)                    | 96.50 (3.799)                   | 87.00 (3.425)                   | 82.00 (3.228)                   |                |              |
| 75018-0024  | 108          | 18                 | 4.74 (.187)                     | 9.78 (.385)                     | 75.50 (2.972)                   | 66.00 (2.598)                   | 61.00 (2.402)                   |                |              |
| 75018-0025  | 108          | 18                 | 8.74 (.344)                     | 13.78 (.543)                    | 75.50 (2.972)                   | 66.00 (2.598)                   | 61.00 (2.402)                   |                |              |
| 75018-0026  | 120          | 20                 | 4.74 (.187)                     | 9.78 (.385)                     | 82.50 (3.248)                   | 73.00 (2.874)                   | 68.00 (2.677)                   |                |              |
| 75018-0027  | 108          | 18                 | 5.74 (.226)                     | 10.78 (.424)                    | 75.50 (2.972)                   | 66.00 (2.598)                   | 61.00 (2.402)                   |                |              |
| 75018-0029  | 120          | 20                 | 5.74 (.226)                     | 10.78 (.424)                    | 82.50 (3.248)                   | 73.00 (2.874)                   | 68.00 (2.677)                   |                |              |

NOTE: THIS ITEM NUMBER HAS ONLY SIGNAL PINS

## 1) FINISHES:

## FINISH 1: (PREVIOUSLY TIN-LEAD)

## CONTACT INTERFACE

0.76 MICROMETERS/30 MICROINCHES MINIMUM SELECT GOLD  
NICKEL UNDERPLATE OVERALL

## COMPLIANT INTERFACE

0.76 MICROMETERS/30 MICROINCHES MINIMUM SELECT MATTE-TIN OVER  
NICKEL UNDERPLATE OVERALL

## HOUSING

0.10 MICROMETERS/4 MICROINCHES MAXIMUM GOLD OVER  
3.81 MICROMETERS/150 MICROINCHES MINIMUM NICKEL OVER  
COPPER UNDERPLATE OVERALL

## FINISH 2:

## CONTACT INTERFACE

0.76 MICROMETERS/30 MICROINCHES MINIMUM SELECT GOLD  
NICKEL UNDERPLATE OVERALL

## COMPLIANT INTERFACE

0.76 MICROMETERS/30 MICROINCHES MINIMUM SELECT MATTE-TIN OVER  
NICKEL UNDERPLATE OVERALL

## HOUSING

0.10 MICROMETERS/4 MICROINCHES MAXIMUM GOLD OVER  
3.81 MICROMETERS/150 MICROINCHES MINIMUM NICKEL OVER  
COPPER UNDERPLATE OVERALL

## FINISH 3:

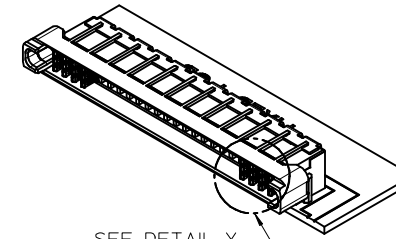
## CONTACT INTERFACE

0.76 MICROMETERS/30 MICROINCHES MINIMUM SELECT GOLD  
NICKEL UNDERPLATE OVERALL

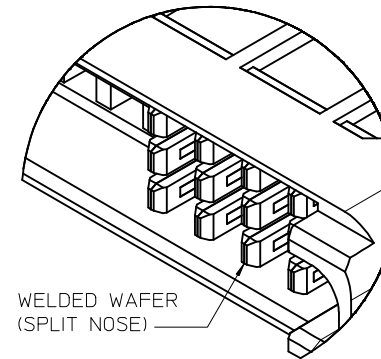
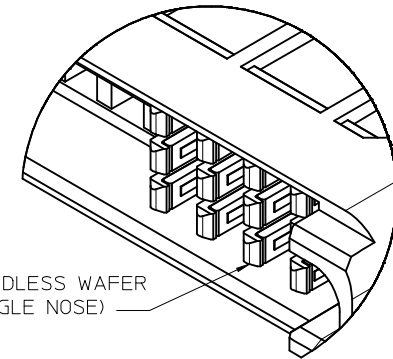
## COMPLIANT INTERFACE

0.76 MICROMETERS/30 MICROINCHES MINIMUM SELECT MATTE-TIN OVER  
NICKEL UNDERPLATE OVERALL

## HOUSING

3.81 MICROMETERS/150 MICROINCHES MINIMUM NICKEL OVER  
COPPER UNDERPLATE OVERALL

SEE DETAIL Y

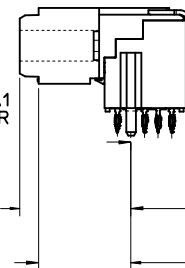
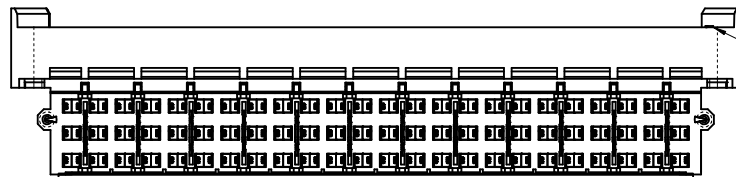
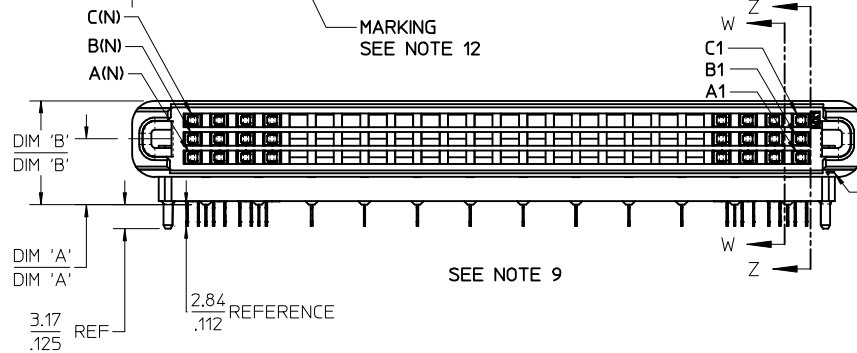
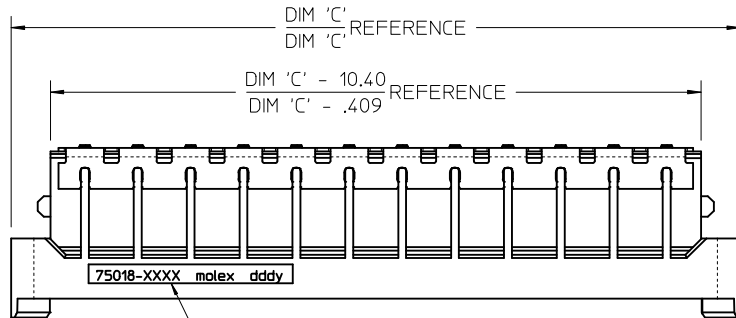
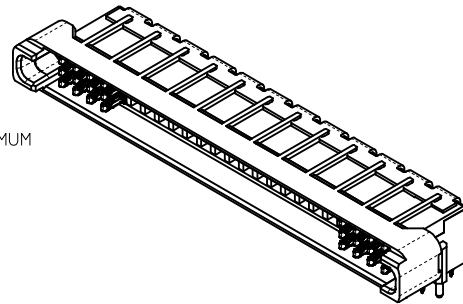
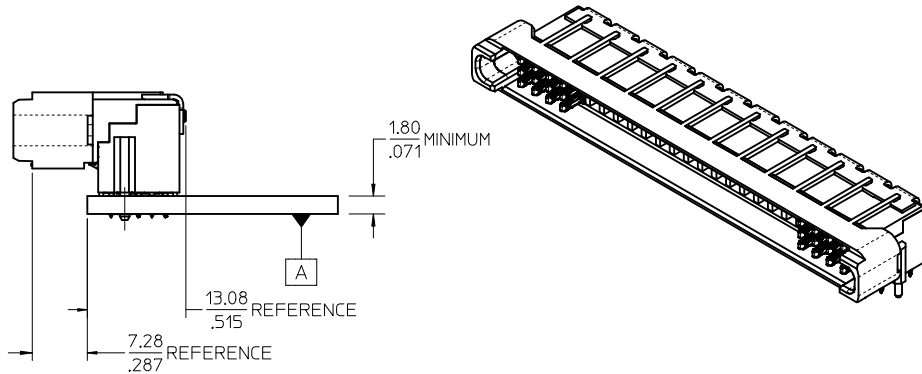
WELDED WAFER  
(SPLIT NOSE)WELDLESS WAFER  
(SINGLE NOSE)DETAIL Y  
SCALE 5:1

|                                                                                                                       |                                      |                                                                                                                                                                                                                                       |                                                                                                                                                                        |                                                                                                                          |                                                  |                     |
|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|---------------------|
| SEE SHEET 1<br>EC NO: UCP2014-2233<br>DRAWN: RHIPPLE 2013/11/20<br>CHKD: MPOFF 2913.11.20<br>APPR: SMILLER 2013/11/27 | QUALITY SYMBOLS<br>▽=0<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)<br>mm INCH<br>4 PLACES ±.005 ±.005<br>3 PLACES ±.005 ±.005<br>2 PLACES ±.01 ±.01<br>1 PLACE ±.025 ±.025<br>0 PLACE ± ±<br>ANGULAR ±1/2°<br>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | DIMENSION STYLE<br>MM/IN<br>DRAWN BY DATE<br>LANG 03-OCT-29<br>CHECKED BY DATE<br>LANG 03-OCT-29<br>APPROVED BY DATE<br>BANAKIS 03-OCT-29<br>MATERIAL NO.<br>SEE TABLE | SCALE<br>1:1<br>TITLE<br>PLATEAU HS DOCK<br>FIXED CONNECTOR<br>NO GROUND FINGER<br>molex<br>DOCUMENT NO.<br>SD-75018-011 | DESIGN UNITS<br>METRIC<br>THIRD ANGLE PROJECTION | SHEET NO.<br>4 OF 5 |
|                                                                                                                       |                                      |                                                                                                                                                                                                                                       |                                                                                                                                                                        |                                                                                                                          |                                                  |                     |
|                                                                                                                       |                                      |                                                                                                                                                                                                                                       |                                                                                                                                                                        |                                                                                                                          |                                                  |                     |
|                                                                                                                       |                                      |                                                                                                                                                                                                                                       |                                                                                                                                                                        |                                                                                                                          |                                                  |                     |

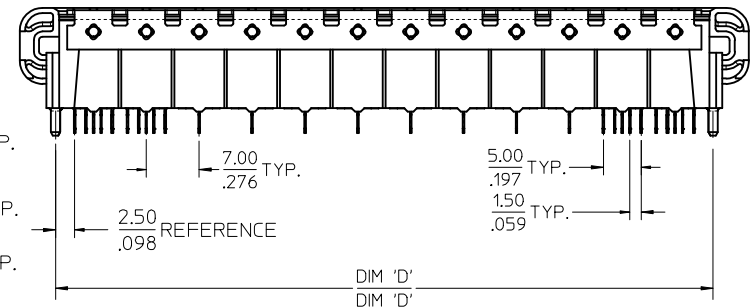
## LEAD-FREE ASSEMBLIES

| ITEM NUMBER | CIRCUIT SIZE | NO. OF COLUMNS 'N' | CENTERLINE DIMENSION 'A' mm(in) | O/A HEIGHT DIMENSION 'B' mm(in) | O/A LENGTH DIMENSION 'C' mm(in) | PEG TO PEG DIMENSION 'D' mm(in) | FIRST-LAST DIMENSION 'E' mm(in) | PLATING FINISH | WAFER OPTION |
|-------------|--------------|--------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------|--------------|
| 75018-7025  | 108          | 18                 | 8.74 (.344)                     | 13.78 (.543)                    | 75.50 (2.972)                   | 66.00 (2.598)                   | 61.00 (2.402)                   | FINISH 2       | WELDED       |
| 75018-7216  | 120          | 20                 | 4.74 (.187)                     | 9.78 (.385)                     | 82.50 (3.248)                   | 73.00 (2.874)                   | 68.00 (2.677)                   |                |              |
| 75018-7221  | 144          | 24                 | 4.74 (.187)                     | 9.78 (.385)                     | 96.50 (3.799)                   | 87.00 (3.425)                   | 82.00 (3.228)                   |                |              |
| 75018-7022  | 144          | 24                 | 5.74 (.226)                     | 10.78 (.424)                    | 96.50 (3.799)                   | 87.00 (3.425)                   | 82.00 (3.228)                   |                |              |
| 75018-7023  | 144          | 24                 | 8.74 (.344)                     | 13.78 (.543)                    | 96.50 (3.799)                   | 87.00 (3.425)                   | 82.00 (3.228)                   |                |              |
| 75018-7224  | 108          | 18                 | 4.74 (.187)                     | 9.78 (.385)                     | 75.50 (2.972)                   | 66.00 (2.598)                   | 61.00 (2.402)                   |                |              |
| 75018-7225  | 108          | 18                 | 8.74 (.344)                     | 13.78 (.543)                    | 75.50 (2.972)                   | 66.00 (2.598)                   | 61.00 (2.402)                   |                |              |
| 75018-7227  | 108          | 18                 | 5.74 (.226)                     | 10.78 (.424)                    | 75.50 (2.972)                   | 66.00 (2.598)                   | 61.00 (2.402)                   |                |              |
| 75018-7229  | 120          | 20                 | 5.74 (.226)                     | 10.78 (.424)                    | 82.50 (3.248)                   | 73.00 (2.874)                   | 68.00 (2.677)                   |                |              |
| 75018-7321  | 144          | 24                 | 4.74 (.187)                     | 9.78 (.385)                     | 96.50 (3.799)                   | 87.00 (3.425)                   | 82.00 (3.228)                   | FINISH 3       | WELDED       |
| 75018-7322  | 144          | 24                 | 5.74 (.226)                     | 10.78 (.424)                    | 96.50 (3.799)                   | 87.00 (3.425)                   | 82.00 (3.228)                   |                |              |
| 75018-7323  | 144          | 24                 | 8.74 (.344)                     | 13.78 (.543)                    | 96.50 (3.799)                   | 87.00 (3.425)                   | 82.00 (3.228)                   |                |              |
| 75018-7324  | 108          | 18                 | 4.74 (.187)                     | 9.78 (.385)                     | 75.50 (2.972)                   | 66.00 (2.598)                   | 61.00 (2.402)                   |                |              |
| 75018-7325  | 108          | 18                 | 8.74 (.344)                     | 13.78 (.543)                    | 75.50 (2.972)                   | 66.00 (2.598)                   | 61.00 (2.402)                   |                |              |
| 75018-7326  | 120          | 20                 | 4.74 (.187)                     | 9.78 (.385)                     | 82.50 (3.248)                   | 73.00 (2.874)                   | 68.00 (2.677)                   |                |              |
| 75018-7327  | 108          | 18                 | 5.74 (.226)                     | 10.78 (.424)                    | 75.50 (2.972)                   | 66.00 (2.598)                   | 61.00 (2.402)                   |                |              |
| 75018-7329  | 120          | 20                 | 5.74 (.226)                     | 10.78 (.424)                    | 82.50 (3.248)                   | 73.00 (2.874)                   | 68.00 (2.677)                   |                |              |
| 75018-8321  | 144          | 24                 | 4.74 (.187)                     | 9.78 (.385)                     | 96.50 (3.799)                   | 87.00 (3.425)                   | 82.00 (3.228)                   | FINISH 3       | WELDLESS     |
| 75018-8322  | 144          | 24                 | 5.74 (.226)                     | 10.78 (.424)                    | 96.50 (3.799)                   | 87.00 (3.425)                   | 82.00 (3.228)                   |                |              |
| 75018-8323  | 144          | 24                 | 8.74 (.344)                     | 13.78 (.543)                    | 96.50 (3.799)                   | 87.00 (3.425)                   | 82.00 (3.228)                   |                |              |
| 75018-8324  | 108          | 18                 | 4.74 (.187)                     | 9.78 (.385)                     | 75.50 (2.972)                   | 66.00 (2.598)                   | 61.00 (2.402)                   |                |              |
| 75018-8325  | 108          | 18                 | 8.74 (.344)                     | 13.78 (.543)                    | 75.50 (2.972)                   | 66.00 (2.598)                   | 61.00 (2.402)                   |                |              |
| 75018-8326  | 120          | 20                 | 4.74 (.187)                     | 9.78 (.385)                     | 82.50 (3.248)                   | 73.00 (2.874)                   | 68.00 (2.677)                   |                |              |
| 75018-8327  | 108          | 18                 | 5.74 (.226)                     | 10.78 (.424)                    | 75.50 (2.972)                   | 66.00 (2.598)                   | 61.00 (2.402)                   |                |              |
| 75018-8329  | 120          | 20                 | 5.74 (.226)                     | 10.78 (.424)                    | 82.50 (3.248)                   | 73.00 (2.874)                   | 68.00 (2.677)                   |                |              |

|                                                                                                                                  |                                      |                                                            |  |                          |                   |                                                                                 |                        |                        |  |
|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------------|--|--------------------------|-------------------|---------------------------------------------------------------------------------|------------------------|------------------------|--|
| SEE SHEET 1<br>EC NO: UCP2014-2233<br>DRAWN:WHIPPLE 2013/11/20<br>CHKD:MPOFF 29/3.11.20<br>APPR:SMILLER 2013/11/27               | QUALITY SYMBOLS<br>▽=0<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |  | DIMENSION STYLE<br>MM/IN |                   | SCALE<br>2:1                                                                    | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION |  |
|                                                                                                                                  |                                      |                                                            |  | DRAWN BY<br>LANG         | DATE<br>03-OCT-29 | TITLE<br>PLATEAU HS DOCK<br>FIXED CONNECTOR<br>NO GROUND FINGER<br><b>molex</b> |                        |                        |  |
|                                                                                                                                  |                                      |                                                            |  | CHECKED BY<br>LANG       | DATE<br>03-OCT-29 |                                                                                 |                        |                        |  |
|                                                                                                                                  |                                      |                                                            |  | APPROVED BY<br>BANAKIS   | DATE<br>03-OCT-29 |                                                                                 |                        |                        |  |
|                                                                                                                                  |                                      |                                                            |  | MATERIAL NO.             |                   | DOCUMENT NO.                                                                    |                        |                        |  |
| ANGULAR ±1/2°                                                                                                                    |                                      | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |  | SEE TABLE                |                   | SD-75018-011                                                                    |                        | SHEET NO.<br>5 OF 5    |  |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                      |                                                            |  |                          |                   |                                                                                 |                        |                        |  |



8.13  
.320 TYP.  
14.73  
.580 TYP.  
12.23  
.481 TYP.



#### NOTES:

##### 1) MATERIALS:

HOUSING - LIQUID CRYSTAL POLYMER, UL94 V-0  
WAFER DIELECTRIC - LIQUID CRYSTAL POLYMER, UL94 V-0  
CONTACT - COPPER ALLOY

##### 2) FINISHES: SEE SHEET 2

##### 3) PRODUCT SPECIFICATION: THIS PART CONFORMS TO MOLEX SPECIFICATION PS-75018-001.

##### 4) PACKAGING SPECIFICATION: THIS PART TO BE PACKAGED PER SPECIFICATION PK-75020-030.

##### 5) APPLICATION SPECIFICATION: THIS PART TO BE APPLIED PER SPECIFICATION PS-75018-001. APPLICATION TOOL AND INSTRUCTIONS PER AS-75018-001.

##### 6) MATING INFORMATION

THIS PART MATES WITH 75019-XXXX.

WILL MATE WITH MAXIMUM 1.27mm MIS-ALIGNMENT.

WILL MATE WITH MAXIMUM 0.5° MIS-ALIGNMENT.

##### 7) FOR CIRCUIT DESIGNATION SEE SHEET 3

##### 8) FOR PCB INFORMATION SEE SHEET 3

##### 9) CIRCUITS IN THIS ZONE HAVE BEEN OMITTED TO SIMPLIFY THE MODEL. ACTUAL PRODUCT IS FULLY LOADED WITH TERMINALS.

##### 10) APPLICATION TOOLING KEEP OUT AREA. NO COMPONENTS ALLOWED IN THIS AREA.

##### 11) CONFORMS TO MOLEX COSMETIC SPECIFICATION PS-45499-002 & PS-45499-003, CLASS C.

##### 12) MARKING: PART NUMBER, MOLEX LOGO, DATE CODE

##### 13) RECOMMENDED DRILL SIZE 0.66±0.03 TO YIELD FINISHED PLATED THROUGH HOLE OF 0.55±0.05

MOD PCB TAIL HOLE DIM  
EC NO: UCP2014-4737  
DRWN: TIBARRA 2014/05/13  
CHKD: MPOFF 2014/05/13  
APPR: SMILLER 2014/05/22

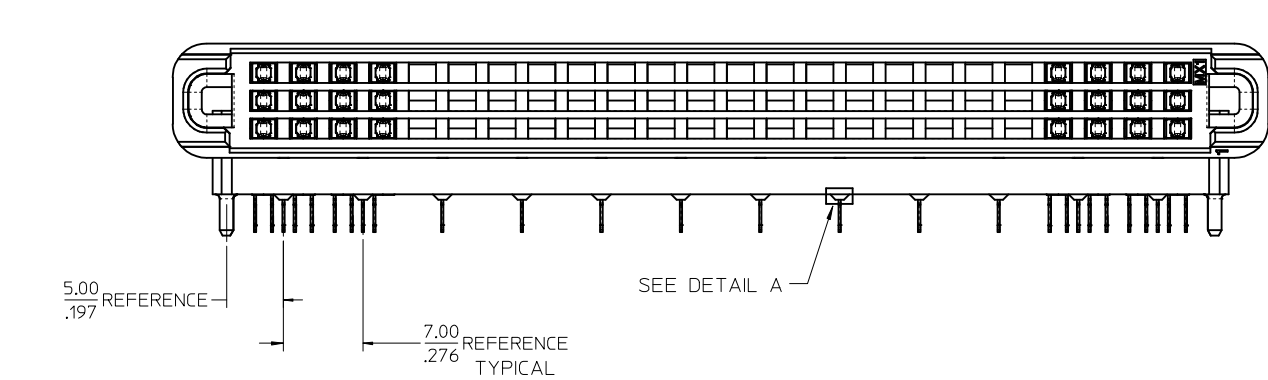
QUALITY SYMBOLS  
▽=0  
▽=0  
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)  
4 PLACES ± .005  
3 PLACES ± .005  
2 PLACES ± .01  
1 PLACE ± .025  
0 PLACE ± .025  
ANGULAR ±1/2°  
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

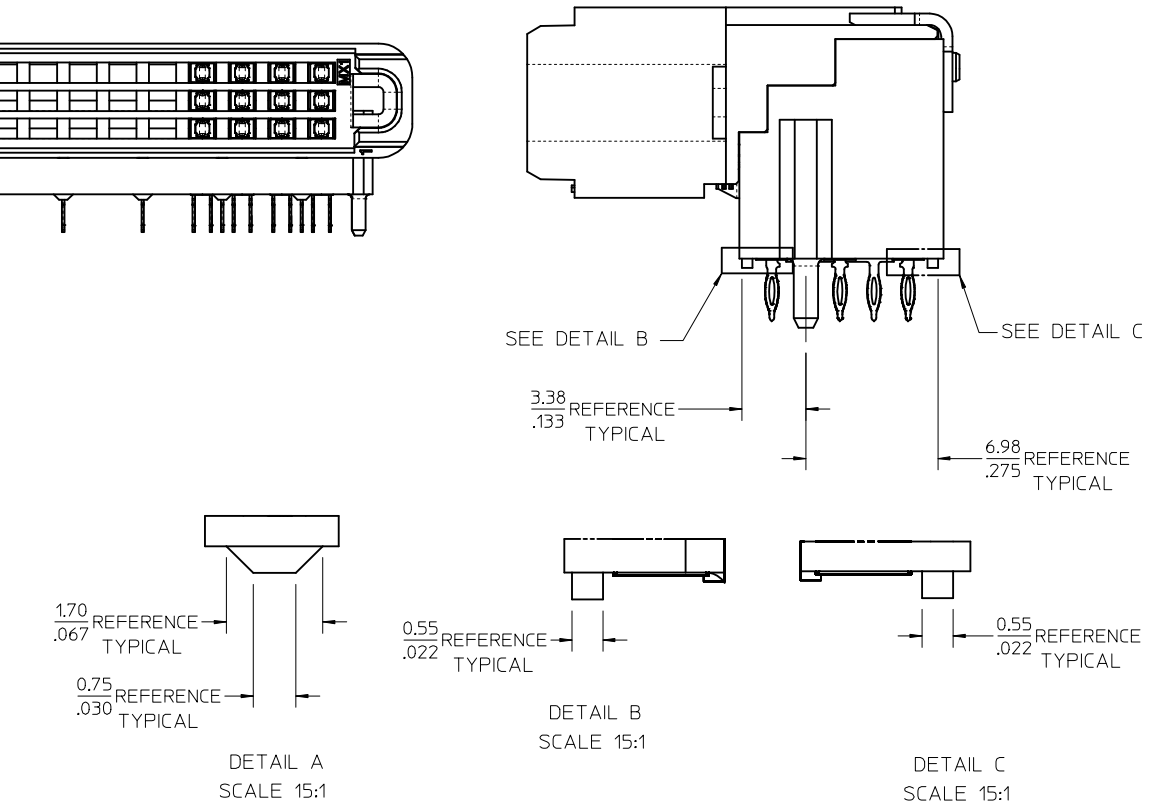
DIMENSION STYLE  
MM/IN  
DRAWN BY DATE  
RWHIPPLE 2013/11/05  
CHECKED BY DATE  
APPROVED BY DATE  
SMILLER 2013/11/19  
MATERIAL NO.  
SEE TABLE  
SIZE C

SCALE  
2:1  
DESIGN UNITS  
METRIC  
THIRD ANGLE PROJECTION  
TITLE  
PLATEAU HS DOCK  
FIXED CONNECTOR  
NO GROUND FINGER  
molex  
DOCUMENT NO.  
SD-75018-5000  
SHEET NO.  
1 OF 3  
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX. INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

|   | 13          | 12           | 11                 | 10             | 9                               | 8                               | 7                               | 6                               | 5                               | 4 | 3 | 2 | 1 |
|---|-------------|--------------|--------------------|----------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---|---|---|---|
|   | ITEM NUMBER | CIRCUIT SIZE | NO. OF COLUMNS 'N' | PLATING FINISH | CENTERLINE DIMENSION 'A' mm(in) | O/A HEIGHT DIMENSION 'B' mm(in) | O/A LENGTH DIMENSION 'C' mm(in) | PEG TO PEG DIMENSION 'D' mm(in) | FIRST-LAST DIMENSION 'E' mm(in) |   |   |   |   |
| J | 75018-5021  | 144          | 24                 | FINISH 1       | 4.74 (.187)                     | 9.78 (.385)                     | 96.50 (3.799)                   | 87.00 (3.425)                   | 82.00 (3.228)                   |   |   |   |   |
|   | 75018-5022  | 144          | 24                 | FINISH 1       | 5.74 (.226)                     | 10.78 (.424)                    | 96.50 (3.799)                   | 87.00 (3.425)                   | 82.00 (3.228)                   |   |   |   |   |
| I | 75018-5023  | 144          | 24                 | FINISH 1       | 8.74 (.344)                     | 13.78 (.543)                    | 96.50 (3.799)                   | 87.00 (3.425)                   | 82.00 (3.228)                   |   |   |   |   |
|   | 75018-5024  | 108          | 18                 | FINISH 1       | 4.74 (.187)                     | 9.78 (.385)                     | 75.50 (2.972)                   | 66.00 (2.598)                   | 61.00 (2.402)                   |   |   |   |   |
|   | 75018-5025  | 108          | 18                 | FINISH 1       | 8.74 (.344)                     | 13.78 (.543)                    | 75.50 (2.972)                   | 66.00 (2.598)                   | 61.00 (2.402)                   |   |   |   |   |
|   | 75018-5026  | 120          | 20                 | FINISH 1       | 4.74 (.187)                     | 9.78 (.385)                     | 82.50 (3.248)                   | 73.00 (2.874)                   | 68.00 (2.677)                   |   |   |   |   |
|   | 75018-5027  | 108          | 18                 | FINISH 1       | 5.74 (.226)                     | 10.78 (.424)                    | 75.50 (2.972)                   | 66.00 (2.598)                   | 61.00 (2.402)                   |   |   |   |   |
|   | 75018-5029  | 120          | 20                 | FINISH 1       | 5.74 (.226)                     | 10.78 (.424)                    | 82.50 (3.248)                   | 73.00 (2.874)                   | 68.00 (2.677)                   |   |   |   |   |
| H | 75018-5221  | 144          | 24                 | FINISH 2       | 4.74 (.187)                     | 9.78 (.385)                     | 96.50 (3.799)                   | 87.00 (3.425)                   | 82.00 (3.228)                   |   |   |   |   |
|   | 75018-5224  | 108          | 18                 | FINISH 2       | 4.74 (.187)                     | 9.78 (.385)                     | 75.50 (2.972)                   | 66.00 (2.598)                   | 61.00 (2.402)                   |   |   |   |   |

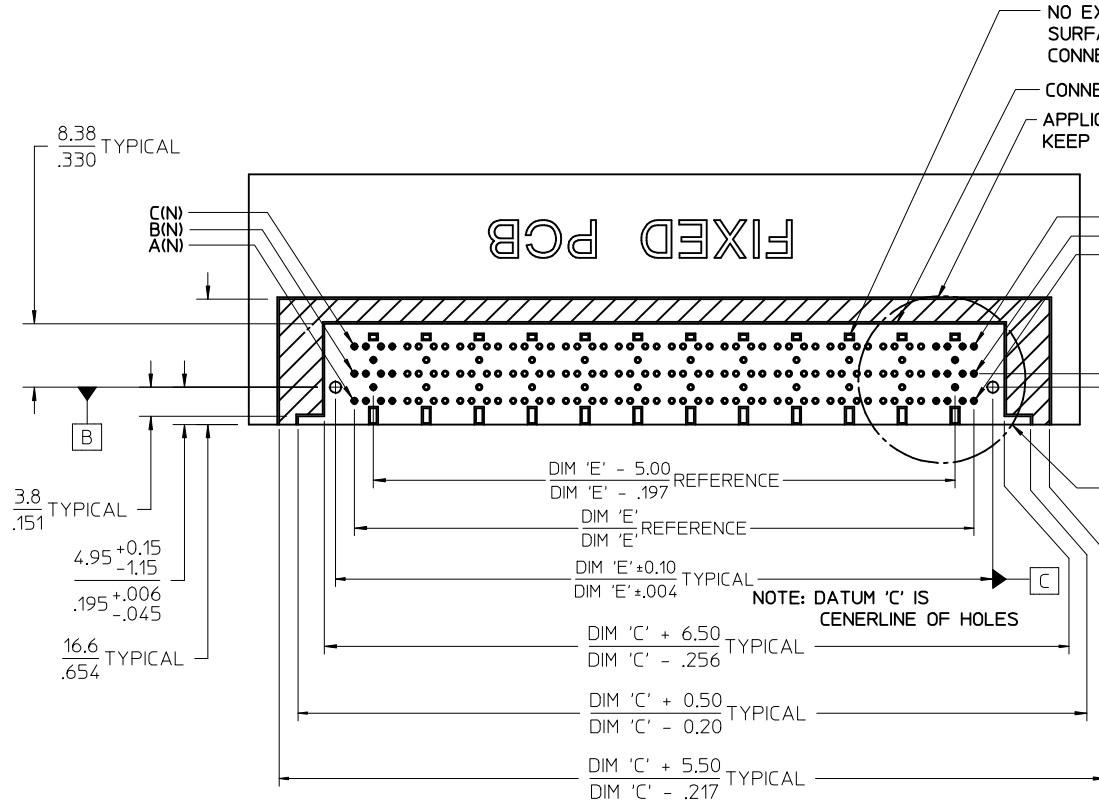


- 1) PLATING FINISHES:
- FINISH 1:
- CONTACT INTERFACE
  - 0.76 MICROMETERS/30 MICROINCHES MINIMUM SELECT GOLD
  - NICKEL UNDERPLATE OVERALL
  - COMPLIANT INTERFACE
  - 0.76 MICROMETERS/30 MICROINCHES MINIMUM SELECT MATTE-TIN OVER
  - NICKEL UNDERPLATE OVERALL
  - HOUSING
  - 3.81 MICROMETERS/150 MICROINCHES MINIMUM NICKEL OVER
  - COPPER UNDERPLATE OVERALL
- FINISH 2:
- CONTACT INTERFACE
  - 0.76 MICROMETERS/30 MICROINCHES MINIMUM SELECT GOLD
  - NICKEL UNDERPLATE OVERALL
  - COMPLIANT INTERFACE
  - 0.76 MICROMETERS/30 MICROINCHES MINIMUM SELECT MATTE-TIN OVER
  - NICKEL UNDERPLATE OVERALL
  - HOUSING
  - 0.10 MICROMETERS/4 MICROINCHES MAXIMUM GOLD OVER
  - 3.81 MICROMETERS/150 MICROINCHES MINIMUM NICKEL OVER
  - COPPER UNDERPLATE OVERALL



|                                                                                                                       |             |     |                 |                                                      |        |                          |                                                                                                                               |                    |                                                        |                        |  |  |  |  |           |
|-----------------------------------------------------------------------------------------------------------------------|-------------|-----|-----------------|------------------------------------------------------|--------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------------------|------------------------|--|--|--|--|-----------|
| SEE SHEET 1<br>EC NO: UCP2014-4737<br>DRAWN: TIBARRA 2014/05/13<br>CHKD: MPOFF 2014/05/13<br>APPR: SMILLER 2014/05/22 | DESCRIPTION | REV | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED)                |        | DIMENSION STYLE<br>MM/IN |                                                                                                                               | SCALE<br>3:1       | DESIGN UNITS<br>METRIC                                 | THIRD ANGLE PROJECTION |  |  |  |  |           |
|                                                                                                                       |             |     |                 |                                                      | mm     | INCH                     | DRAWN BY<br>RWHIPPLE                                                                                                          | DATE<br>2013/11/05 | PLATEAU HS DOCK<br>FIXED CONNECTOR<br>NO GROUND FINGER |                        |  |  |  |  |           |
|                                                                                                                       |             |     |                 | 4 PLACES                                             | ± .--- | ± .---                   | CHECKED BY                                                                                                                    | DATE               |                                                        |                        |  |  |  |  |           |
|                                                                                                                       |             |     |                 | 3 PLACES                                             | ± .--- | ± .005                   |                                                                                                                               |                    |                                                        |                        |  |  |  |  |           |
|                                                                                                                       |             |     |                 | 2 PLACES                                             | ± 0.13 | ± .01                    | APPROVED BY                                                                                                                   |                    | DATE                                                   | molex                  |  |  |  |  |           |
|                                                                                                                       |             |     |                 | 1 PLACE                                              | ± 0.25 | ± .---                   | SMILLER                                                                                                                       | 2013/11/19         |                                                        |                        |  |  |  |  |           |
|                                                                                                                       |             |     |                 | 0 PLACE                                              | ±      | ±                        | MATERIAL NO.                                                                                                                  |                    | DOCUMENT NO.                                           |                        |  |  |  |  | SHEET NO. |
|                                                                                                                       |             |     |                 | ANGULAR ±1/2°                                        |        | SEE TABLE                |                                                                                                                               | SD-75018-5000      |                                                        | 2 OF 3                 |  |  |  |  |           |
|                                                                                                                       |             |     |                 | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |        | SIZE                     | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                    |                                                        |                        |  |  |  |  |           |





CIRCUIT DESIGNATION

FIRST MATE: HOUSING - SIGNAL GROUND

SECOND MATE: A1, C1, A(N), C(N) (FOR POWER RETURN)

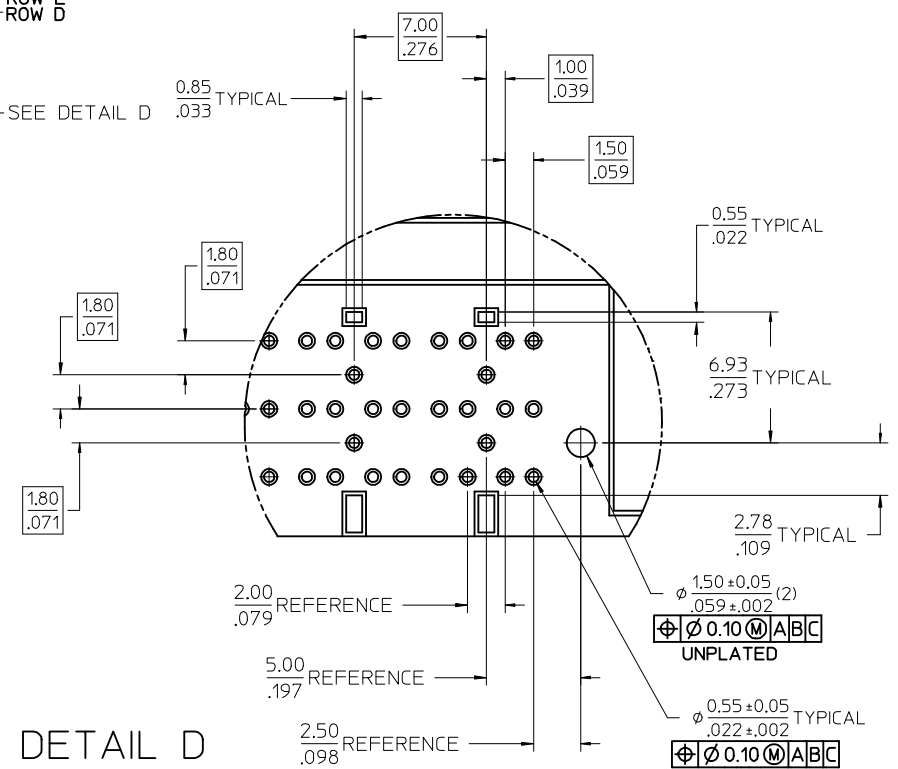
THIRD MATE: A2, B2, C2, A(N-1), B(N-1), C(N-1) & ALL OTHERS (A2, C2, A(N-1) & C(N-1) FOR POWER) (ALL OTHERS SIGNAL)

LAST MATE: B1, B(N) (FOR CARD DETECT)

ALL COLUMNS FROM 3 THROUGH (N-2) ARE SUITABLE FOR DIFFERENTIAL PAIRS

EG: A3-A4, B3-B4, C3-C4, A(N-2)-A(N-3), B(N-2)-B(N-3)

SIGNAL GROUND: ROWS D & E



DETAIL D  
SCALE 5:1

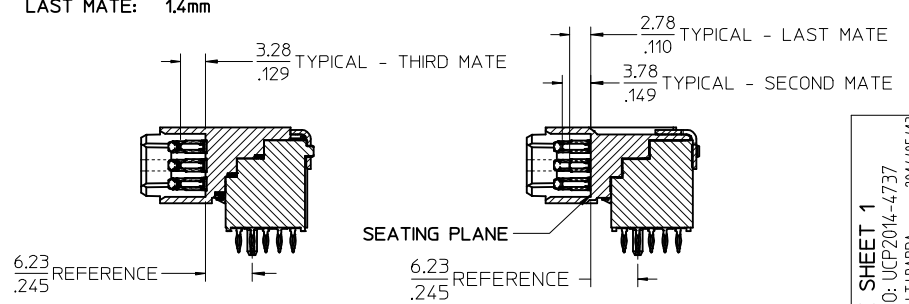
NOMINAL WIPE - FULL SEATED

FIRST MATE: 7.2mm

SECOND MATE: 2.4mm

THIRD MATE: 1.9mm

LAST MATE: 1.4mm



|                                                                                                                              |                    |                                                                 |                                                            |  |        |                          |                               |                                                                                               |                         |                                                                                                                                  |                                                                                         |  |
|------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------|------------------------------------------------------------|--|--------|--------------------------|-------------------------------|-----------------------------------------------------------------------------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--|
| SEE SHEET 1<br>EC NO: UCP2014-4737<br>2014/05/13<br>DRWN: TIBARRA<br>2014/05/13<br>CHKD: MPOFF<br>2014/05/17<br>APPR: MILLER | DESCRIPTION<br>REV | QUALITY SYMBOLS<br><div>▽=0</div> <div>▽=0</div> <div>▽=0</div> | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |  |        | DIMENSION STYLE<br>MM/IN |                               | SCALE<br>2:1                                                                                  | DESIGN UNITS<br>METRIC  |  THIRD ANGLE<br>PROJECTION                  |                                                                                         |  |
|                                                                                                                              |                    |                                                                 |                                                            |  | mm     | INCH                     | DRAWN BY<br>RWHIPPLE          |                                                                                               | DATE<br>2013/11/05      |                                                                                                                                  | TITLE<br><br>PLATEAU HS DOCK<br>FIXED CONNECTOR<br>NO GROUND FINGER<br><br><b>molex</b> |  |
|                                                                                                                              |                    |                                                                 | 4 PLACES                                                   |  | ± ---  | ± ---                    | CHECKED BY                    |                                                                                               | DATE                    |                                                                                                                                  |                                                                                         |  |
|                                                                                                                              |                    |                                                                 | 3 PLACES                                                   |  | ± ---  | ± .005                   |                               |                                                                                               |                         |                                                                                                                                  |                                                                                         |  |
|                                                                                                                              |                    |                                                                 | 2 PLACES                                                   |  | ± 0.13 | ± .01                    |                               |                                                                                               |                         |                                                                                                                                  |                                                                                         |  |
|                                                                                                                              |                    |                                                                 | 1 PLACE                                                    |  | ± 0.25 | ± ---                    | APPROVED BY<br>SMILLER        |                                                                                               | DATE<br>2013/11/19      |                                                                                                                                  | DOCUMENT NO.<br><br>SD-75018-5000                                                       |  |
|                                                                                                                              |                    |                                                                 | 0 PLACE                                                    |  | ±      | ±                        | MATERIAL NO.<br><br>SEE TABLE |                                                                                               | SHEET NO.<br><br>3 OF 3 |                                                                                                                                  |                                                                                         |  |
|                                                                                                                              |                    |                                                                 | ANGULAR ±1/2°                                              |  |        |                          |                               |                                                                                               |                         |                                                                                                                                  |                                                                                         |  |
|                                                                                                                              |                    |                                                                 | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |  |        |                          |                               | SIZE<br> |                         | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                                         |  |