



MOLD CAVITY ID FOR REFERENCE ONLY



NOTES:

- MATERIAL:
  - CONNECTOR: HOUSING - HIGH TEMPERATURE THERMOPLASTIC GLASS FILLED, UL 94V-0, BLACK; TERMINALS - COPPER ALLOY
  - SHELL: SILVER NICKEL, C770, THICKNESS: 0.250/0.254
- FINISH:
  - CONNECTOR OPTION 1: CONTACT AREA - 0.38µm MIN GOLD OVER 2.54 µm NICKEL; SOLDER FOOT AREA - 2.54-5.09µm TIN OVER 1.27 µm NICKEL
  - CONNECTOR OPTION 2: CONTACT AREA - 0.76µm MIN GOLD OVER 2.54 µm NICKEL; SOLDER FOOT AREA - 2.54-5.09µm TIN OVER 1.27 µm NICKEL
- TERMINAL SOLDER FEET TO BE COPLANAR WITHIN 0.10 MEASURED FROM FRONT HOUSING STAND OFF (DATUM C)
- DATE CODE: 4 DIGIT (3 DIGIT DAY, 1 DIGIT YEAR) CONNECTOR ONLY
- CIRCUIT IDENTIFIER: SEE APPROPRIATE INDUSTRY SPECIFICATION FOR LOCATION OF PIN 1.
- TO BE USED WITH THE FOLLOWING CABLE SERIES: 79575/74563/79576/74573/79536/74562/74586
- PACKAGED PER PACKAGING SPECIFICATION: PK-75783-001
- CONFORMS TO PRODUCT SPECIFICATION: PS-75783-001
- PROCESS PER APPLICATION SPECIFICATION: AS-75783-001
- THIS PART CONFORMS TO CLASS C REQUIREMENTS OF COSMETIC SPEC PS-45499-002



SEE NOTE 3

36 CIRCUIT RETENTION FIT SHELL OPTION SHOWN



| CIRCUIT SIZE | DIM 'A' | DIM 'B' | DIM 'C' |
|--------------|---------|---------|---------|
| 26           | 12.00   | 13.80   | 11.80   |
| 36           | 16.00   | 17.80   | 15.80   |
| 50           | 21.60   | 23.40   | 21.40   |
| 68           | 28.80   | 30.60   | 28.60   |

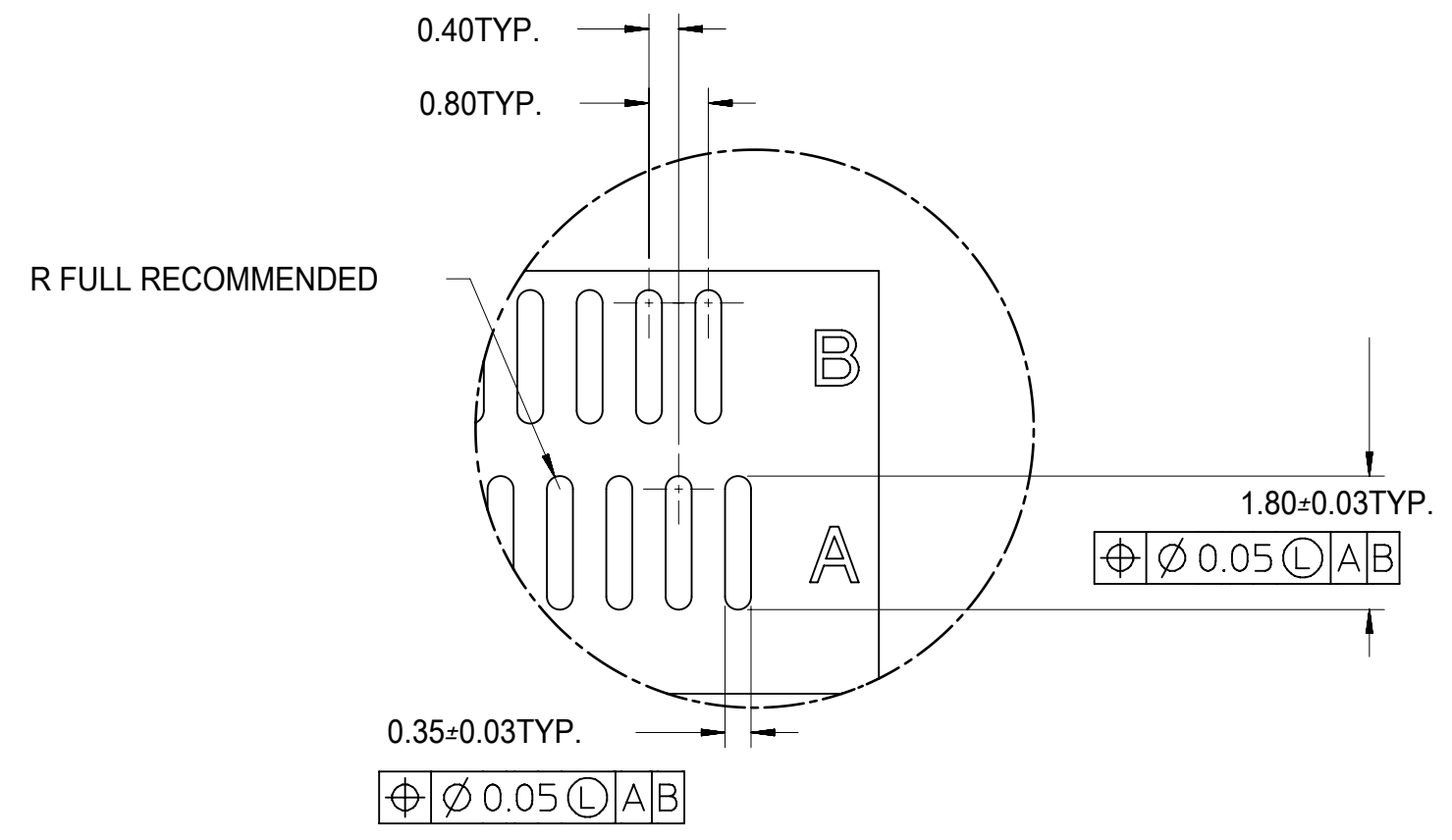
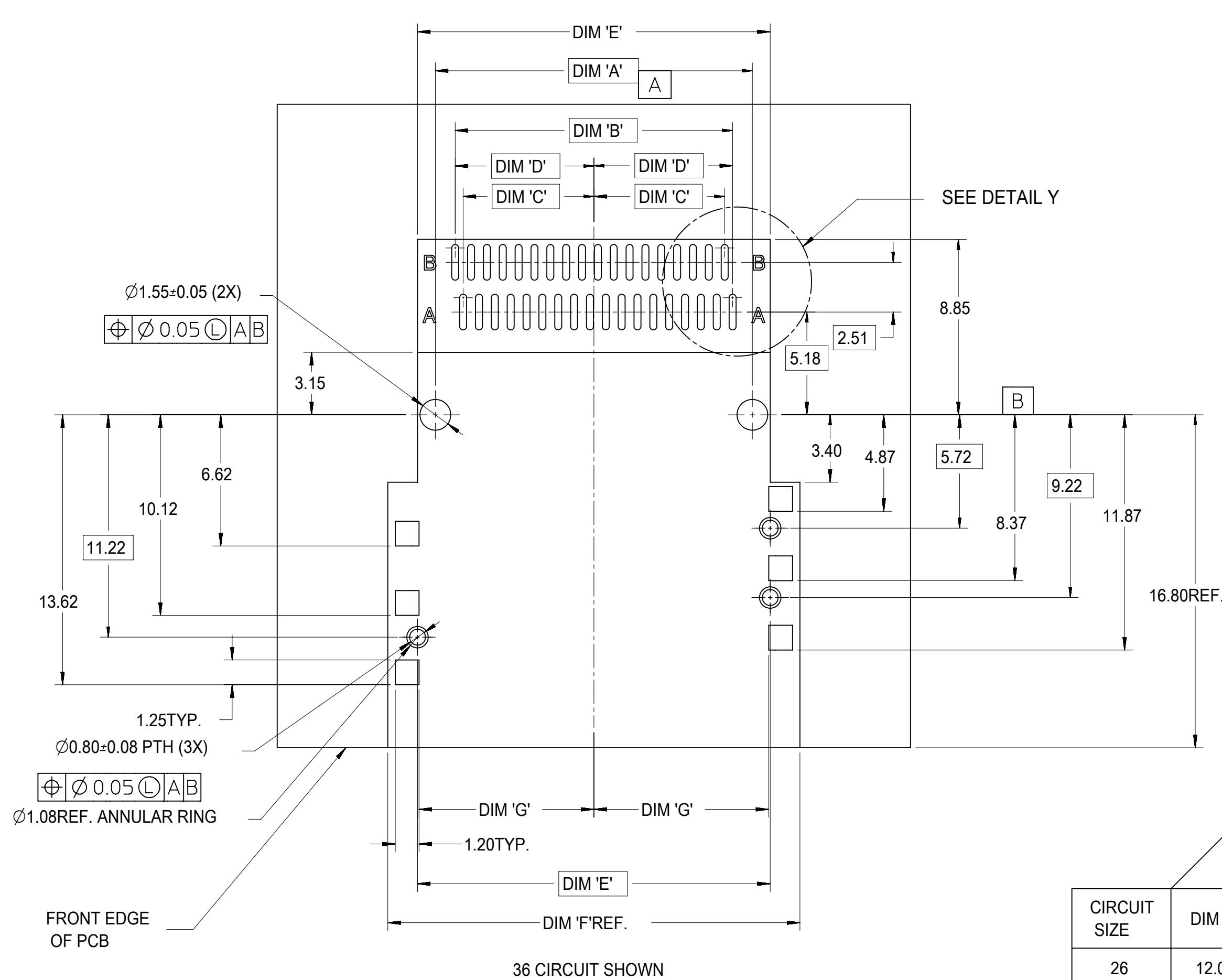
| SYMBOLS         |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |   |
|-----------------|--|---|---|
| DIMENSION UNITS | SCALE  | CURRENT REV DESC:   |   |
| $\nabla = 0$    | mm   | 1:1   | EC NO: 173961<br>DRWN: RWHIPPLE 2018/03/19<br>CHK'D: SMILLER 2018/03/21<br>APPR: SMILLER 2018/03/21 |
| $\nabla = 0$    | GENERAL TOLERANCES (UNLESS SPECIFIED)                |   |   |
| $\nabla = 0$    | ANGULAR TOL $\pm 0.5^\circ$                          |   |   |
| $\nabla = 0$    | 4 PLACES   | $\pm$   | INITIAL REVISION:<br>DRWN: KCALLAGHAN 2016/07/21<br>APPR: TMCLELL 2016/08/24                        |
| $\nabla = 0$    | 3 PLACES   | $\pm$   |   |
| $\nabla = 0$    | 2 PLACES   | $\pm 0.13$  | DOCUMENT NUMBER: SD-75783-001<br>DOC TYPE: PSD<br>DOC PART: 001<br>REVISION: F                      |
| $\nabla = 0$    | 1 PLACE  | $\pm 0.25$  |   |
| $\nabla = 0$    | 0 PLACES   | $\pm$   | MATERIAL NUMBER: SEE TABLE<br>CUSTOMER: GENERAL MARKET<br>SHEET NUMBER: 1 OF 13                     |
| $\nabla = 0$    | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |   |   |
| $\nabla = 0$    | THIRD ANGLE PROJECTION                               | DRAWING   | SERIES  |
|                 |  | C-SIZE  | 75783   |

**molex**

I-PASS R/A CONNECTOR  
INTERNAL ASSY W/SHELL 0.8MM PITCH I/O

PRODUCT CUSTOMER DRAWING

# RIGHT ANGLE CONNECTOR WITH SMT SHELL PCB FOOT PRINT



| CIRCUIT SIZE | DIMENSIONS |                       |                   |                   |                                  |                       |                        |
|--------------|------------|-----------------------|-------------------|-------------------|----------------------------------|-----------------------|------------------------|
|              | PEG TO PEG | FIRST PAD TO LAST PAD | CENTERLINE TO PAD | CENTERLINE TO PAD | CONNECTOR WIDTH SHELL PEG TO PEG | SHELL FOOTPRINT WIDTH | CENTERLINE TO PAD EDGE |
|              | DIM 'A'    | DIM 'B'               | DIM 'C'           | DIM 'D'           | DIM 'E'                          | DIM 'F'               | DIM 'G'                |
| 26           | 12.00      | 10.00                 | 4.60              | 5.00              | 13.80                            | 16.80                 | 6.825                  |
| 36           | 16.00      | 14.00                 | 6.60              | 7.00              | 17.80                            | 20.80                 | 8.825                  |
| 50           | 21.60      | 19.60                 | 9.40              | 9.80              | 23.40                            | 26.40                 | 11.625                 |
| 68           | 28.80      | 26.80                 | 13.00             | 13.40             | 30.60                            | 33.60                 | 15.225                 |

|         |   |       |                             |         |           |                 |   |
|---------|---|-------|-----------------------------|---------|-----------|-----------------|---|
| SYMBOLS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |       |                             |         |           |                 |   |
|         | DIMENSION UNITS   | SCALE | CURRENT REV DESC:           |         |           |                 |   |
| = 0     | mm  | 1:1   |                             |         |           |                 |   |
| = 0     | GENERAL TOLERANCES (UNLESS SPECIFIED)   |       | EC NO: 173961               |         |           |                 | I-PASS R/A CONNECTOR<br>INTERNAL ASSY W/SHELL 0.8MM PITCH I/O |
| = 0     | ANGULAR TOL ± 0.5°  |       | DRWN: RWHIPPLE 2018/03/19   |         |           |                 |   |
| = 0     | 4 PLACES ±  |       | CHK'D: SMILLER 2018/03/21   |         |           |                 |   |
| = 0     | 3 PLACES ±  |       | APPR: SMILLER 2018/03/21    |         |           |                 |   |
| = 0     | 2 PLACES ± 0.13   |       | INITIAL REVISION:           |         |           |                 |   |
| = 0     | 1 PLACE ± 0.25  |       | DRWN: KCALLAGHAN 2016/07/21 |         |           |                 |   |
| = 0     | 0 PLACES ±  |       | APPR: TMCLELL 2016/08/24    |         |           |                 |   |
| = 0     | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS  |       | THIRD ANGLE PROJECTION      | DRAWING | SERIES    | MATERIAL NUMBER | CUSTOMER  |
|         |   |       | C-SIZE                      | 75783   | SEE TABLE | GENERAL MARKET  | SHEET NUMBER  |
|         |   |       |                             |         |           |                 | 2 OF 13   |

# RIGHT ANGLE CONNECTOR WITH SHELL PCB FOOT PRINT DESCRIPTIONS

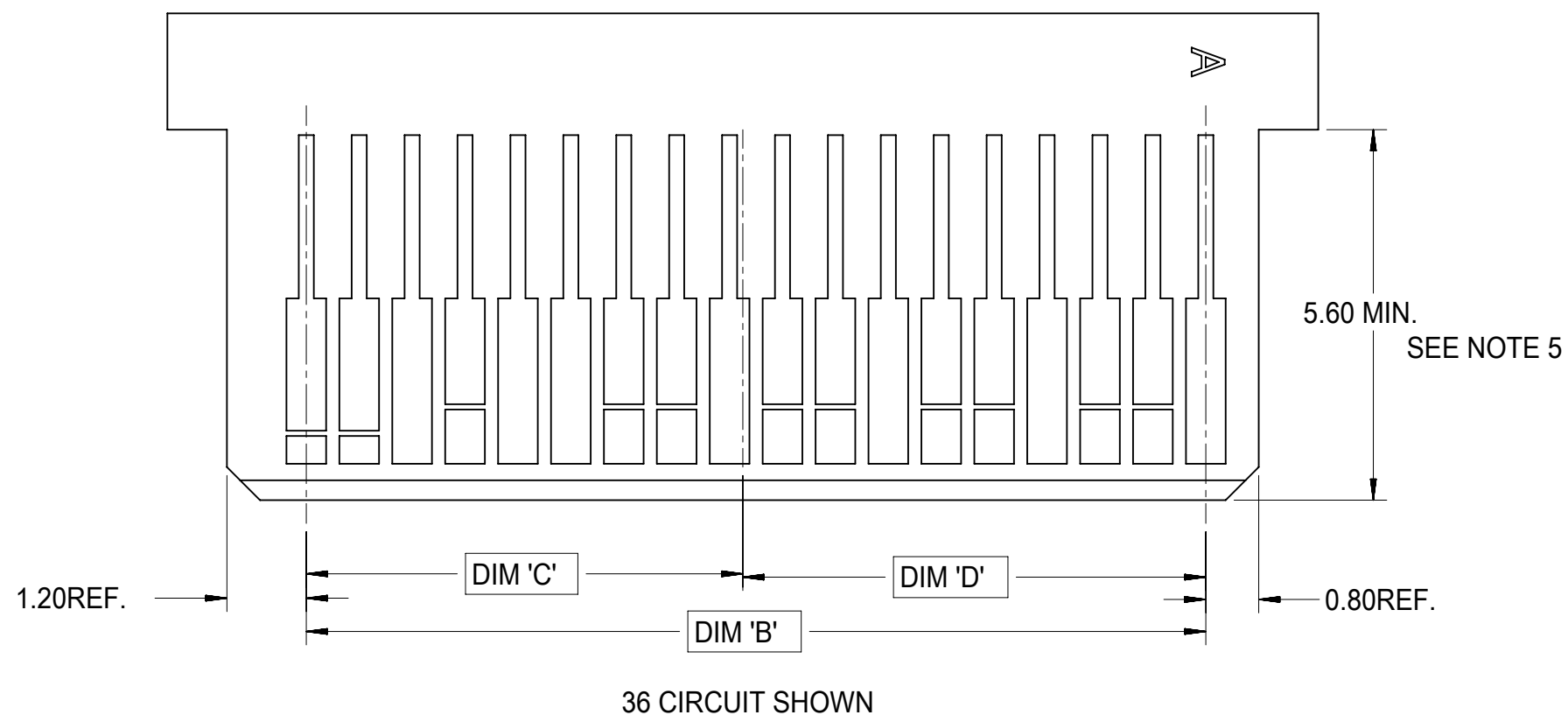
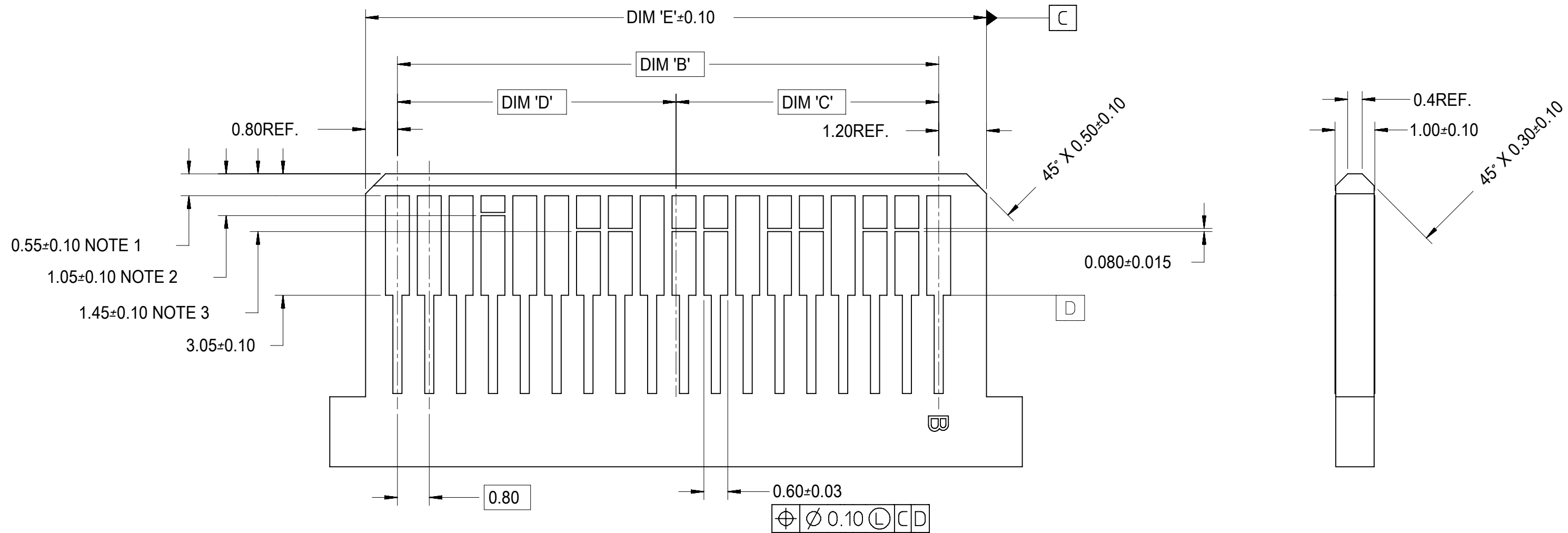


36 CIRCUIT SHOWN

NOTE: IF RECEPTACLE AND SHELL ARE NOT PLACED AT EDGE OF PCB AS SHOWN, ADDITIONAL CLEARANCE IS NEEDED FOR BODY OF PLUG AND CABLE

| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                 |  |   |  |                        |         |        |                 |                |                   |  |  |          |          |  |  |                  |  |            |                 |  |            |               |          |               |                          |            |              |  |     |     |                                       |  |  |   |  |  |  |  |  |  |                   |  |  |  |  |  |  |                  |  |            |                 |  |          |          |          |               |  |            |              |  |     |     |   |       |             |        |  |  |                        |         |        |                 |          |              |       |          |   |  |  |  |        |       |           |                |         |       |          |   |  |  |  |  |  |  |  |  |       |          |        |  |  |  |  |  |  |  |  |       |         |        |  |  |  |  |  |  |  |  |       |          |   |  |  |  |  |  |  |  |  |
|---|-----------------|--|---|--|------------------------|---------|--------|-----------------|----------------|-------------------|--|--|----------|----------|--|--|------------------|--|------------|-----------------|--|------------|---------------|----------|---------------|--------------------------|------------|--------------|--|-----|-----|---------------------------------------|--|--|---|--|--|--|--|--|--|-------------------|--|--|--|--|--|--|------------------|--|------------|-----------------|--|----------|----------|----------|---------------|--|------------|--------------|--|-----|-----|---|-------|-------------|--------|--|--|------------------------|---------|--------|-----------------|----------|--------------|-------|----------|---|--|--|--|--------|-------|-----------|----------------|---------|-------|----------|---|--|--|--|--|--|--|--|--|-------|----------|--------|--|--|--|--|--|--|--|--|-------|---------|--------|--|--|--|--|--|--|--|--|-------|----------|---|--|--|--|--|--|--|--|--|
| SYMBOLS   | DIMENSION UNITS | SCALE  | CURRENT REV DESC:   |  |                        |         |        |                 |                |                   |  |  |          |          |  |  |                  |  |            |                 |  |            |               |          |               |                          |            |              |  |     |     |                                       |  |  |   |  |  |  |  |  |  |                   |  |  |  |  |  |  |                  |  |            |                 |  |          |          |          |               |  |            |              |  |     |     |   |       |             |        |  |  |                        |         |        |                 |          |              |       |          |   |  |  |  |        |       |           |                |         |       |          |   |  |  |  |  |  |  |  |  |       |          |        |  |  |  |  |  |  |  |  |       |         |        |  |  |  |  |  |  |  |  |       |          |   |  |  |  |  |  |  |  |  |
| ▽ = 0   | mm              | 1:1  | <table border="0" style="width: 100%;"> <tr> <td colspan="2">EC NO: 173961</td> <td colspan="5" rowspan="3" style="text-align: center; vertical-align: middle;"> <div style="font-size: 2em; font-weight: bold; margin-bottom: 10px;">molex</div>                     I-PASS R/A CONNECTOR<br/>INTERNAL ASSY W/SHELL 0.8MM PITCH I/O                 </td> </tr> <tr> <td colspan="2">DRWN: RWHIPPLE</td> <td>2018/03/19</td> </tr> <tr> <td colspan="2">CHK'D: SMILLER</td> <td>2018/03/21</td> </tr> <tr> <td colspan="2">APPR: SMILLER</td> <td>2018/03/21</td> <td colspan="4" style="text-align: center;">PRODUCT CUSTOMER DRAWING</td> <td colspan="2"></td> </tr> <tr> <td colspan="3">GENERAL TOLERANCES (UNLESS SPECIFIED)</td> <td colspan="7" rowspan="3" style="vertical-align: top;"> <table border="0" style="width: 100%;"> <tr> <td colspan="3">INITIAL REVISION:</td> <td colspan="4"></td> </tr> <tr> <td colspan="2">DRWN: KCALLAGHAN</td> <td>2016/07/21</td> <td colspan="2">DOCUMENT NUMBER</td> <td>DOC TYPE</td> <td>DOC PART</td> <td>REVISION</td> </tr> <tr> <td colspan="2">APPR: TMCLELL</td> <td>2016/08/24</td> <td colspan="2" style="text-align: center; font-size: 1.2em;">SD-75783-001</td> <td>PSD</td> <td>001</td> <td>F</td> </tr> </table> </td> </tr> <tr> <td>▽ = 0</td> <td>ANGULAR TOL</td> <td>± 0.5°</td> <td colspan="2">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td> <td>THIRD ANGLE PROJECTION</td> <td>DRAWING</td> <td>SERIES</td> <td>MATERIAL NUMBER</td> <td>CUSTOMER</td> <td>SHEET NUMBER</td> </tr> <tr> <td>▽ = 0</td> <td>4 PLACES</td> <td>±</td> <td></td> <td></td> <td></td> <td>C-SIZE</td> <td>75783</td> <td>SEE TABLE</td> <td>GENERAL MARKET</td> <td>3 OF 13</td> </tr> <tr> <td>▽ = 0</td> <td>3 PLACES</td> <td>±</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>▽ = 0</td> <td>2 PLACES</td> <td>± 0.13</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>▽ = 0</td> <td>1 PLACE</td> <td>± 0.25</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>▽ = 0</td> <td>0 PLACES</td> <td>±</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> |  |                        |         |        |                 |                | EC NO: 173961     |  | <div style="font-size: 2em; font-weight: bold; margin-bottom: 10px;">molex</div> I-PASS R/A CONNECTOR<br>INTERNAL ASSY W/SHELL 0.8MM PITCH I/O |          |          |  |  | DRWN: RWHIPPLE   |  | 2018/03/19 | CHK'D: SMILLER  |  | 2018/03/21 | APPR: SMILLER |          | 2018/03/21    | PRODUCT CUSTOMER DRAWING |            |              |  |     |     | GENERAL TOLERANCES (UNLESS SPECIFIED) |  |  | <table border="0" style="width: 100%;"> <tr> <td colspan="3">INITIAL REVISION:</td> <td colspan="4"></td> </tr> <tr> <td colspan="2">DRWN: KCALLAGHAN</td> <td>2016/07/21</td> <td colspan="2">DOCUMENT NUMBER</td> <td>DOC TYPE</td> <td>DOC PART</td> <td>REVISION</td> </tr> <tr> <td colspan="2">APPR: TMCLELL</td> <td>2016/08/24</td> <td colspan="2" style="text-align: center; font-size: 1.2em;">SD-75783-001</td> <td>PSD</td> <td>001</td> <td>F</td> </tr> </table> |  |  |  |  |  |  | INITIAL REVISION: |  |  |  |  |  |  | DRWN: KCALLAGHAN |  | 2016/07/21 | DOCUMENT NUMBER |  | DOC TYPE | DOC PART | REVISION | APPR: TMCLELL |  | 2016/08/24 | SD-75783-001 |  | PSD | 001 | F | ▽ = 0 | ANGULAR TOL | ± 0.5° | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |  | THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER | ▽ = 0 | 4 PLACES | ± |  |  |  | C-SIZE | 75783 | SEE TABLE | GENERAL MARKET | 3 OF 13 | ▽ = 0 | 3 PLACES | ± |  |  |  |  |  |  |  |  | ▽ = 0 | 2 PLACES | ± 0.13 |  |  |  |  |  |  |  |  | ▽ = 0 | 1 PLACE | ± 0.25 |  |  |  |  |  |  |  |  | ▽ = 0 | 0 PLACES | ± |  |  |  |  |  |  |  |  |
| EC NO: 173961   |                 | <div style="font-size: 2em; font-weight: bold; margin-bottom: 10px;">molex</div> I-PASS R/A CONNECTOR<br>INTERNAL ASSY W/SHELL 0.8MM PITCH I/O |   |  |                        |         |        |                 |                |                   |  |  |          |          |  |  |                  |  |            |                 |  |            |               |          |               |                          |            |              |  |     |     |                                       |  |  |   |  |  |  |  |  |  |                   |  |  |  |  |  |  |                  |  |            |                 |  |          |          |          |               |  |            |              |  |     |     |   |       |             |        |  |  |                        |         |        |                 |          |              |       |          |   |  |  |  |        |       |           |                |         |       |          |   |  |  |  |  |  |  |  |  |       |          |        |  |  |  |  |  |  |  |  |       |         |        |  |  |  |  |  |  |  |  |       |          |   |  |  |  |  |  |  |  |  |
| DRWN: RWHIPPLE  |                 |  |   |  |                        |         |        |                 |                | 2018/03/19        |  |  |          |          |  |  |                  |  |            |                 |  |            |               |          |               |                          |            |              |  |     |     |                                       |  |  |   |  |  |  |  |  |  |                   |  |  |  |  |  |  |                  |  |            |                 |  |          |          |          |               |  |            |              |  |     |     |   |       |             |        |  |  |                        |         |        |                 |          |              |       |          |   |  |  |  |        |       |           |                |         |       |          |   |  |  |  |  |  |  |  |  |       |          |        |  |  |  |  |  |  |  |  |       |         |        |  |  |  |  |  |  |  |  |       |          |   |  |  |  |  |  |  |  |  |
| CHK'D: SMILLER  |                 |  |   |  |                        |         |        |                 |                | 2018/03/21        |  |  |          |          |  |  |                  |  |            |                 |  |            |               |          |               |                          |            |              |  |     |     |                                       |  |  |   |  |  |  |  |  |  |                   |  |  |  |  |  |  |                  |  |            |                 |  |          |          |          |               |  |            |              |  |     |     |   |       |             |        |  |  |                        |         |        |                 |          |              |       |          |   |  |  |  |        |       |           |                |         |       |          |   |  |  |  |  |  |  |  |  |       |          |        |  |  |  |  |  |  |  |  |       |         |        |  |  |  |  |  |  |  |  |       |          |   |  |  |  |  |  |  |  |  |
| APPR: SMILLER   |                 | 2018/03/21   | PRODUCT CUSTOMER DRAWING  |  |                        |         |        |                 |                |                   |  |  |          |          |  |  |                  |  |            |                 |  |            |               |          |               |                          |            |              |  |     |     |                                       |  |  |   |  |  |  |  |  |  |                   |  |  |  |  |  |  |                  |  |            |                 |  |          |          |          |               |  |            |              |  |     |     |   |       |             |        |  |  |                        |         |        |                 |          |              |       |          |   |  |  |  |        |       |           |                |         |       |          |   |  |  |  |  |  |  |  |  |       |          |        |  |  |  |  |  |  |  |  |       |         |        |  |  |  |  |  |  |  |  |       |          |   |  |  |  |  |  |  |  |  |
| GENERAL TOLERANCES (UNLESS SPECIFIED)   |                 |  | <table border="0" style="width: 100%;"> <tr> <td colspan="3">INITIAL REVISION:</td> <td colspan="4"></td> </tr> <tr> <td colspan="2">DRWN: KCALLAGHAN</td> <td>2016/07/21</td> <td colspan="2">DOCUMENT NUMBER</td> <td>DOC TYPE</td> <td>DOC PART</td> <td>REVISION</td> </tr> <tr> <td colspan="2">APPR: TMCLELL</td> <td>2016/08/24</td> <td colspan="2" style="text-align: center; font-size: 1.2em;">SD-75783-001</td> <td>PSD</td> <td>001</td> <td>F</td> </tr> </table>   |  |                        |         |        |                 |                | INITIAL REVISION: |  |  |          |          |  |  | DRWN: KCALLAGHAN |  | 2016/07/21 | DOCUMENT NUMBER |  | DOC TYPE   | DOC PART      | REVISION | APPR: TMCLELL |                          | 2016/08/24 | SD-75783-001 |  | PSD | 001 | F                                     |  |  |   |  |  |  |  |  |  |                   |  |  |  |  |  |  |                  |  |            |                 |  |          |          |          |               |  |            |              |  |     |     |   |       |             |        |  |  |                        |         |        |                 |          |              |       |          |   |  |  |  |        |       |           |                |         |       |          |   |  |  |  |  |  |  |  |  |       |          |        |  |  |  |  |  |  |  |  |       |         |        |  |  |  |  |  |  |  |  |       |          |   |  |  |  |  |  |  |  |  |
| INITIAL REVISION:   |                 |  |   |  |                        |         |        |                 |                |                   |  |  |          |          |  |  |                  |  |            |                 |  |            |               |          |               |                          |            |              |  |     |     |                                       |  |  |   |  |  |  |  |  |  |                   |  |  |  |  |  |  |                  |  |            |                 |  |          |          |          |               |  |            |              |  |     |     |   |       |             |        |  |  |                        |         |        |                 |          |              |       |          |   |  |  |  |        |       |           |                |         |       |          |   |  |  |  |  |  |  |  |  |       |          |        |  |  |  |  |  |  |  |  |       |         |        |  |  |  |  |  |  |  |  |       |          |   |  |  |  |  |  |  |  |  |
| DRWN: KCALLAGHAN  |                 | 2016/07/21   |   |  |                        |         |        |                 |                | DOCUMENT NUMBER   |  | DOC TYPE   | DOC PART | REVISION |  |  |                  |  |            |                 |  |            |               |          |               |                          |            |              |  |     |     |                                       |  |  |   |  |  |  |  |  |  |                   |  |  |  |  |  |  |                  |  |            |                 |  |          |          |          |               |  |            |              |  |     |     |   |       |             |        |  |  |                        |         |        |                 |          |              |       |          |   |  |  |  |        |       |           |                |         |       |          |   |  |  |  |  |  |  |  |  |       |          |        |  |  |  |  |  |  |  |  |       |         |        |  |  |  |  |  |  |  |  |       |          |   |  |  |  |  |  |  |  |  |
| APPR: TMCLELL   |                 | 2016/08/24   | SD-75783-001  |  | PSD                    | 001     | F      |                 |                |                   |  |  |          |          |  |  |                  |  |            |                 |  |            |               |          |               |                          |            |              |  |     |     |                                       |  |  |   |  |  |  |  |  |  |                   |  |  |  |  |  |  |                  |  |            |                 |  |          |          |          |               |  |            |              |  |     |     |   |       |             |        |  |  |                        |         |        |                 |          |              |       |          |   |  |  |  |        |       |           |                |         |       |          |   |  |  |  |  |  |  |  |  |       |          |        |  |  |  |  |  |  |  |  |       |         |        |  |  |  |  |  |  |  |  |       |          |   |  |  |  |  |  |  |  |  |
| ▽ = 0   | ANGULAR TOL     | ± 0.5°   | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS  |  | THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER       | SHEET NUMBER      |  |  |          |          |  |  |                  |  |            |                 |  |            |               |          |               |                          |            |              |  |     |     |                                       |  |  |   |  |  |  |  |  |  |                   |  |  |  |  |  |  |                  |  |            |                 |  |          |          |          |               |  |            |              |  |     |     |   |       |             |        |  |  |                        |         |        |                 |          |              |       |          |   |  |  |  |        |       |           |                |         |       |          |   |  |  |  |  |  |  |  |  |       |          |        |  |  |  |  |  |  |  |  |       |         |        |  |  |  |  |  |  |  |  |       |          |   |  |  |  |  |  |  |  |  |
| ▽ = 0   | 4 PLACES        | ±  |   |  |                        | C-SIZE  | 75783  | SEE TABLE       | GENERAL MARKET | 3 OF 13           |  |  |          |          |  |  |                  |  |            |                 |  |            |               |          |               |                          |            |              |  |     |     |                                       |  |  |   |  |  |  |  |  |  |                   |  |  |  |  |  |  |                  |  |            |                 |  |          |          |          |               |  |            |              |  |     |     |   |       |             |        |  |  |                        |         |        |                 |          |              |       |          |   |  |  |  |        |       |           |                |         |       |          |   |  |  |  |  |  |  |  |  |       |          |        |  |  |  |  |  |  |  |  |       |         |        |  |  |  |  |  |  |  |  |       |          |   |  |  |  |  |  |  |  |  |
| ▽ = 0   | 3 PLACES        | ±  |   |  |                        |         |        |                 |                |                   |  |  |          |          |  |  |                  |  |            |                 |  |            |               |          |               |                          |            |              |  |     |     |                                       |  |  |   |  |  |  |  |  |  |                   |  |  |  |  |  |  |                  |  |            |                 |  |          |          |          |               |  |            |              |  |     |     |   |       |             |        |  |  |                        |         |        |                 |          |              |       |          |   |  |  |  |        |       |           |                |         |       |          |   |  |  |  |  |  |  |  |  |       |          |        |  |  |  |  |  |  |  |  |       |         |        |  |  |  |  |  |  |  |  |       |          |   |  |  |  |  |  |  |  |  |
| ▽ = 0   | 2 PLACES        | ± 0.13   |   |  |                        |         |        |                 |                |                   |  |  |          |          |  |  |                  |  |            |                 |  |            |               |          |               |                          |            |              |  |     |     |                                       |  |  |   |  |  |  |  |  |  |                   |  |  |  |  |  |  |                  |  |            |                 |  |          |          |          |               |  |            |              |  |     |     |   |       |             |        |  |  |                        |         |        |                 |          |              |       |          |   |  |  |  |        |       |           |                |         |       |          |   |  |  |  |  |  |  |  |  |       |          |        |  |  |  |  |  |  |  |  |       |         |        |  |  |  |  |  |  |  |  |       |          |   |  |  |  |  |  |  |  |  |
| ▽ = 0   | 1 PLACE         | ± 0.25   |   |  |                        |         |        |                 |                |                   |  |  |          |          |  |  |                  |  |            |                 |  |            |               |          |               |                          |            |              |  |     |     |                                       |  |  |   |  |  |  |  |  |  |                   |  |  |  |  |  |  |                  |  |            |                 |  |          |          |          |               |  |            |              |  |     |     |   |       |             |        |  |  |                        |         |        |                 |          |              |       |          |   |  |  |  |        |       |           |                |         |       |          |   |  |  |  |  |  |  |  |  |       |          |        |  |  |  |  |  |  |  |  |       |         |        |  |  |  |  |  |  |  |  |       |          |   |  |  |  |  |  |  |  |  |
| ▽ = 0   | 0 PLACES        | ±  |   |  |                        |         |        |                 |                |                   |  |  |          |          |  |  |                  |  |            |                 |  |            |               |          |               |                          |            |              |  |     |     |                                       |  |  |   |  |  |  |  |  |  |                   |  |  |  |  |  |  |                  |  |            |                 |  |          |          |          |               |  |            |              |  |     |     |   |       |             |        |  |  |                        |         |        |                 |          |              |       |          |   |  |  |  |        |       |           |                |         |       |          |   |  |  |  |  |  |  |  |  |       |          |        |  |  |  |  |  |  |  |  |       |         |        |  |  |  |  |  |  |  |  |       |          |   |  |  |  |  |  |  |  |  |

# MATING INTERFACE (FOR REFERENCE ONLY)



- NOTES:
- PAD CONFIGURATION FOR FIRST MATE.
  - PAD CONFIGURATION FOR SECOND MATE.
  - PAD CONFIGURATION FOR THIRD MATE. (HIGH SPEED SIGNALS)
  - FOR PIN ASSIGNMENTS AND MATING SEQUENCE (1ST, 2ND, 3RD), SEE APPLICABLE SPECIFICATION.
  - MINIMUM STEP REQUIRED IF PCB MADE WIDER THAN TONGUE.

| CIRCUIT SIZE | TERM/SIDE 'N' | DIM 'B' | DIM 'C' | DIM 'D' | DIM 'E' |
|--------------|---------------|---------|---------|---------|---------|
| 26           | 13            | 9.60    | 4.60    | 5.00    | 11.60   |
| 36           | 18            | 13.60   | 6.60    | 7.00    | 15.60   |
| 50           | 25            | 19.20   | 9.40    | 9.80    | 21.20   |
| 68           | 34            | 26.40   | 13.00   | 13.40   | 28.40   |

|                 |  |   |                             |
|-----------------|--|---|-----------------------------|
| SYMBOLS         |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                             |
| ▽ = 0           | DIMENSION UNITS                                      | SCALE   | CURRENT REV DESC:           |
| ▽ = 0           | mm   | 1:1   | EC NO: 173961               |
| ▽ = 0           | GENERAL TOLERANCES (UNLESS SPECIFIED)                |   | DRWN: RWHIPPLE 2018/03/19   |
| ▽ = 0           | ANGULAR TOL ± 0.5°                                   |   | CHK'D: SMILLER 2018/03/21   |
| ▽ = 0           | 4 PLACES ±   |   | APPR: SMILLER 2018/03/21    |
| ▽ = 0           | 3 PLACES ±   |   | INITIAL REVISION:           |
| ▽ = 0           | 2 PLACES ± 0.13                                      |   | DRWN: KCALLAGHAN 2016/07/21 |
| ▽ = 0           | 1 PLACE ± 0.25                                       |   | APPR: TMCLELL 2016/08/24    |
| ▽ = 0           | 0 PLACES ±   |   | THIRD ANGLE PROJECTION      |
| ▽ = 0           | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |   | DRAWING SERIES              |
| ▽ = 0           |  |   | C-SIZE 75783                |
| DOCUMENT NUMBER |  | DOC TYPE  | DOC PART                    |
| SD-75783-001    |  | PSD   | 001                         |
| MATERIAL NUMBER |  | CUSTOMER  | SHEET NUMBER                |
| SEE TABLE       |  | GENERAL MARKET  | 4 OF 13                     |

**molex**

I-PASS R/A CONNECTOR  
INTERNAL ASSY W/SHELL 0.8MM PITCH I/O

PRODUCT CUSTOMER DRAWING

# ASSEMBLY WITH PRE-POSITION DEVICE



36 CIRCUIT RETENTION-FIT SHELL OPTION SHOWN



NOTES:

1. PICK AND PLACE AREA DEFINED IN APPLICATION SPECIFICATION, AS-75783-001
2. PACKAGING CONSISTS OF CONNECTOR AND SHELL WITH A PRE-POSITIONING PICK AND PLACE DEVICE THAT ARE PACKAGED IN "TAPE AND REEL" FOR ROBOTIC PICK AND PLACE.

| CIRCUIT SIZE | DIM 'D' |
|--------------|---------|
| 26           | 15.50   |
| 36           | 19.50   |
| 50           | 25.10   |
| 68           | 32.30   |

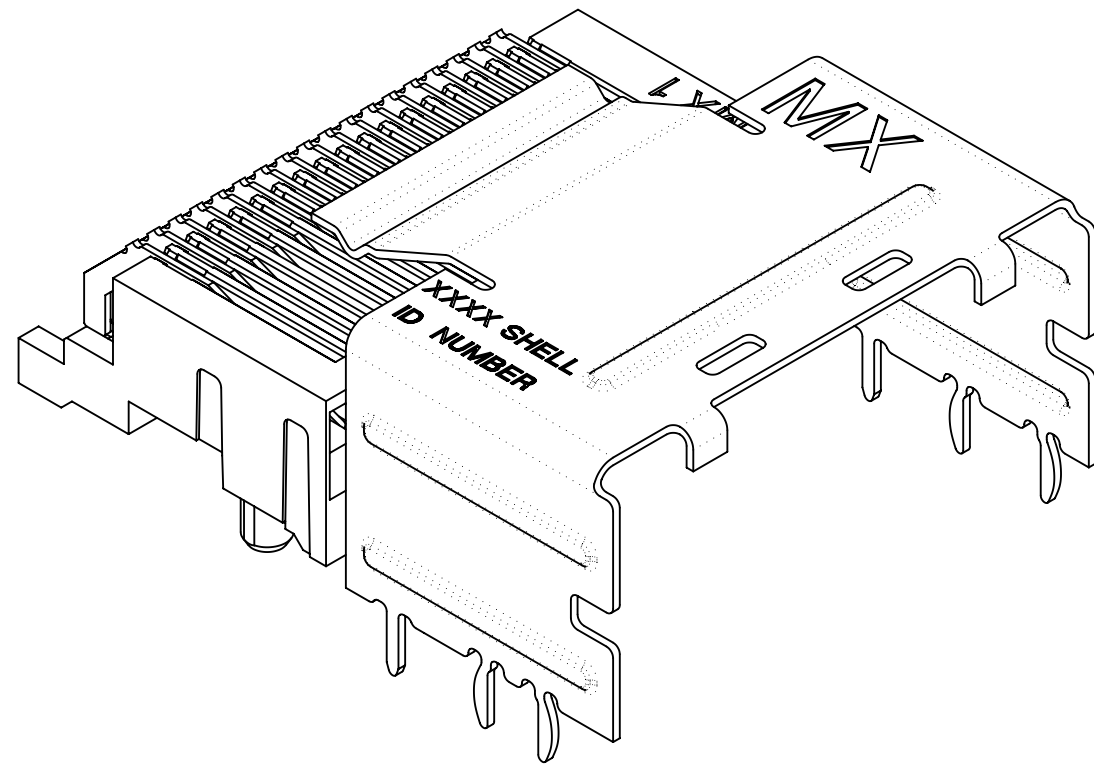
| SYMBOLS         |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |              |
|-----------------|--|---|--------------|
| DIMENSION UNITS | SCALE  | CURRENT REV DESC:   |              |
| $\nabla = 0$    | mm   | 1:1   |              |
| $\nabla = 0$    | GENERAL TOLERANCES (UNLESS SPECIFIED)                |   |              |
| $\nabla = 0$    | ANGULAR TOL $\pm 0.5^\circ$                          |   |              |
| $\nabla = 0$    | 4 PLACES   | $\pm$   |              |
| $\nabla = 0$    | 3 PLACES   | $\pm$   |              |
| $\nabla = 0$    | 2 PLACES   | $\pm 0.13$  |              |
| $\nabla = 0$    | 1 PLACE  | $\pm 0.25$  |              |
| $\nabla = 0$    | 0 PLACES   | $\pm$   |              |
| $\nabla = 0$    | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |   |              |
|                 |  | THIRD ANGLE PROJECTION  | DRAWING      |
|                 |  | C-SIZE  | SERIES       |
|                 |  | 75783   |              |
|                 |  | EC NO: 173961   |              |
|                 |  | DRWN: RWHIPPLE  | 2018/03/19   |
|                 |  | CHK'D: SMILLER  | 2018/03/21   |
|                 |  | APPR: SMILLER   | 2018/03/21   |
|                 |  | INITIAL REVISION:   |              |
|                 |  | DRWN: KCALLAGHAN  | 2016/07/21   |
|                 |  | APPR: TMCLELL   | 2016/08/24   |
| DOCUMENT NUMBER |  | DOC TYPE  | DOC PART     |
| SD-75783-001    |  | PSD   | 001          |
| MATERIAL NUMBER |  | CUSTOMER  | SHEET NUMBER |
| SEE TABLE       |  | GENERAL MARKET  | 5 OF 13      |

**molex**

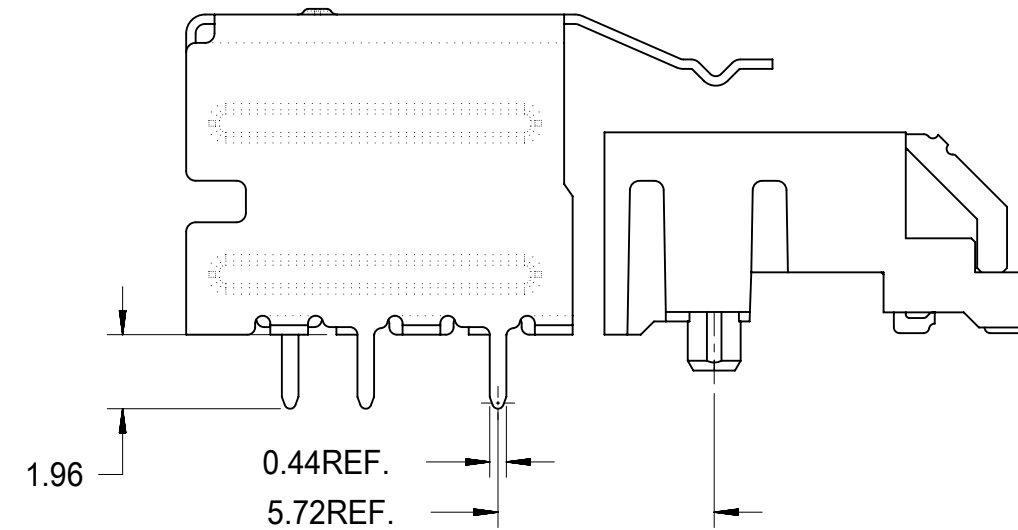
I-PASS R/A CONNECTOR  
INTERNAL ASSY W/SHELL 0.8MM PITCH I/O

PRODUCT CUSTOMER DRAWING

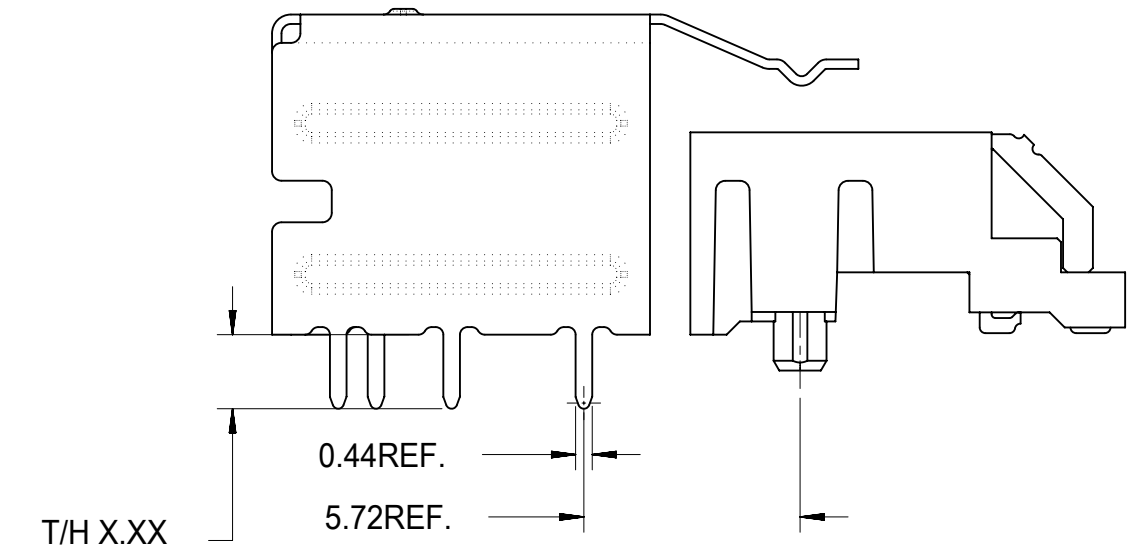
# SHELL PCB INTERFACE



RETENTION-FIT SHELL OPTION



SMT SHELL OPTION



THRU-HOLE SHELL OPTION  
SEE TABLE FOR LENGTH  
(X.XX DENOTES TAIL LENGTH)

RECOMMENDED PCB THICKNESS FOR SPECIFIED TAIL LENGTH

| TAIL LENGTH | PCB THICKNESS |
|-------------|---------------|
| 1.96        | 1.57 (.062)   |
| 2.79        | 2.36 (.093)   |
| 3.18        | 2.79 (.110)   |
| 3.56        | 3.18 (.125)   |

NOTE:  
RETENTION FIT DENOTES TAILS THAT OFFER RETENTION TO PCB DURING REFLOW PROCESS  
SMT DENOTES SURFACE MOUNT TERMINATION  
T/H X.XX DENOTES THRU-HOLE TAIL OF LENGTH X.XX

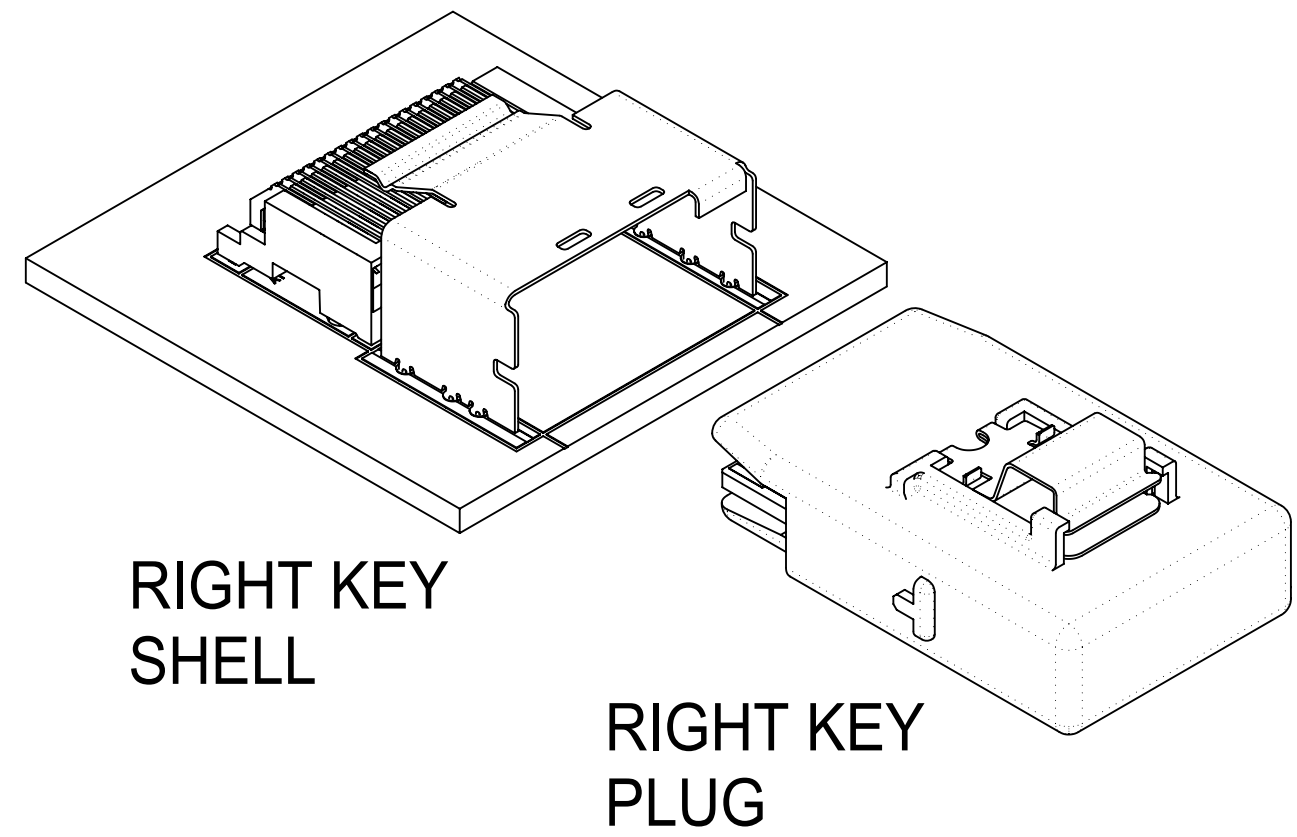
|  |   |  |                           |  |  |   |
|--|---|--|---------------------------|--|--|---|
| <b>SYMBOLS</b><br>▽ = 0<br>▽ = 0<br>▽ = 0<br>▽ = 0<br>▽ = 0<br>▽ = 0<br>▽ = 0<br>▽ = 0<br>▽ = 0<br>▽ = 0 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  | CURRENT REV DESC:         |  |  |   |
|  | DIMENSION UNITS   | SCALE  | EC NO: 173961             |  |  | I-PASS R/A CONNECTOR<br>INTERNAL ASSY W/SHELL 0.8MM PITCH I/O |
|  | mm  | 1:1  | DRWN: RWHIPPLE 2018/03/19 |  |  |   |
|  | GENERAL TOLERANCES (UNLESS SPECIFIED)   |  | CHK'D: SMILLER 2018/03/21 |  |  |   |
| ANGULAR TOL ± 0.5°   |   | APPR: SMILLER 2018/03/21                             |                           | PRODUCT CUSTOMER DRAWING<br>DOCUMENT NUMBER: SD-75783-001<br>DOC TYPE: PSD<br>DOC PART: 001<br>REVISION: F |  |   |
| 4 PLACES ±   |   | INITIAL REVISION:                                    |                           |  |  |   |
| 3 PLACES ±   |   | DRWN: KCALLAGHAN 2016/07/21                          |                           | MATERIAL NUMBER: SEE TABLE<br>CUSTOMER: GENERAL MARKET<br>SHEET NUMBER: 6 OF 13                            |  |   |
| 2 PLACES ± 0.13  |   | APPR: TMCLELL 2016/08/24                             |                           |  |  |   |
| 1 PLACE ± 0.25   |   | THIRD ANGLE PROJECTION                               |                           | DRAWING: C-SIZE<br>SERIES: 75783   |  |   |
| 0 PLACES ±   |   | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |                           |  |  |   |

# KEYING OPTIONS



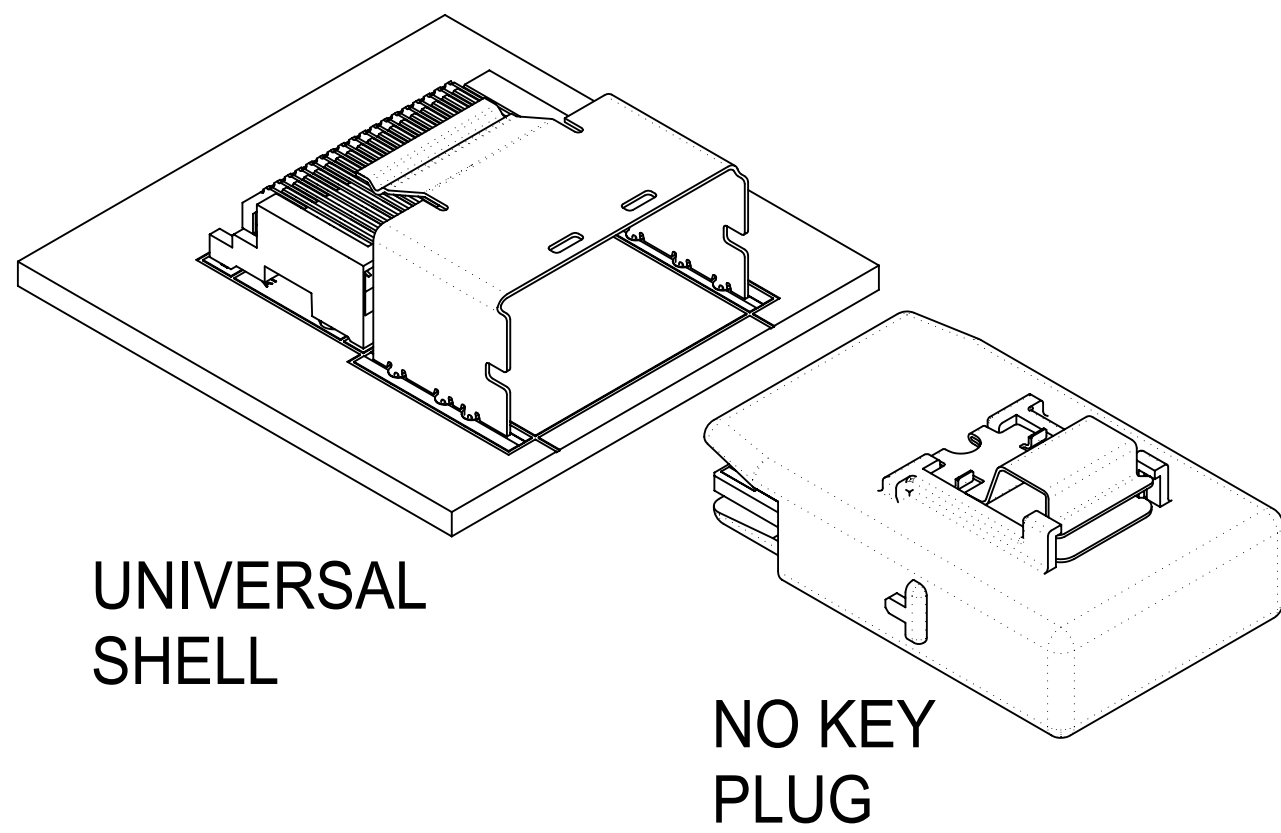
LEFT KEY SHELL

LEFT KEY PLUG



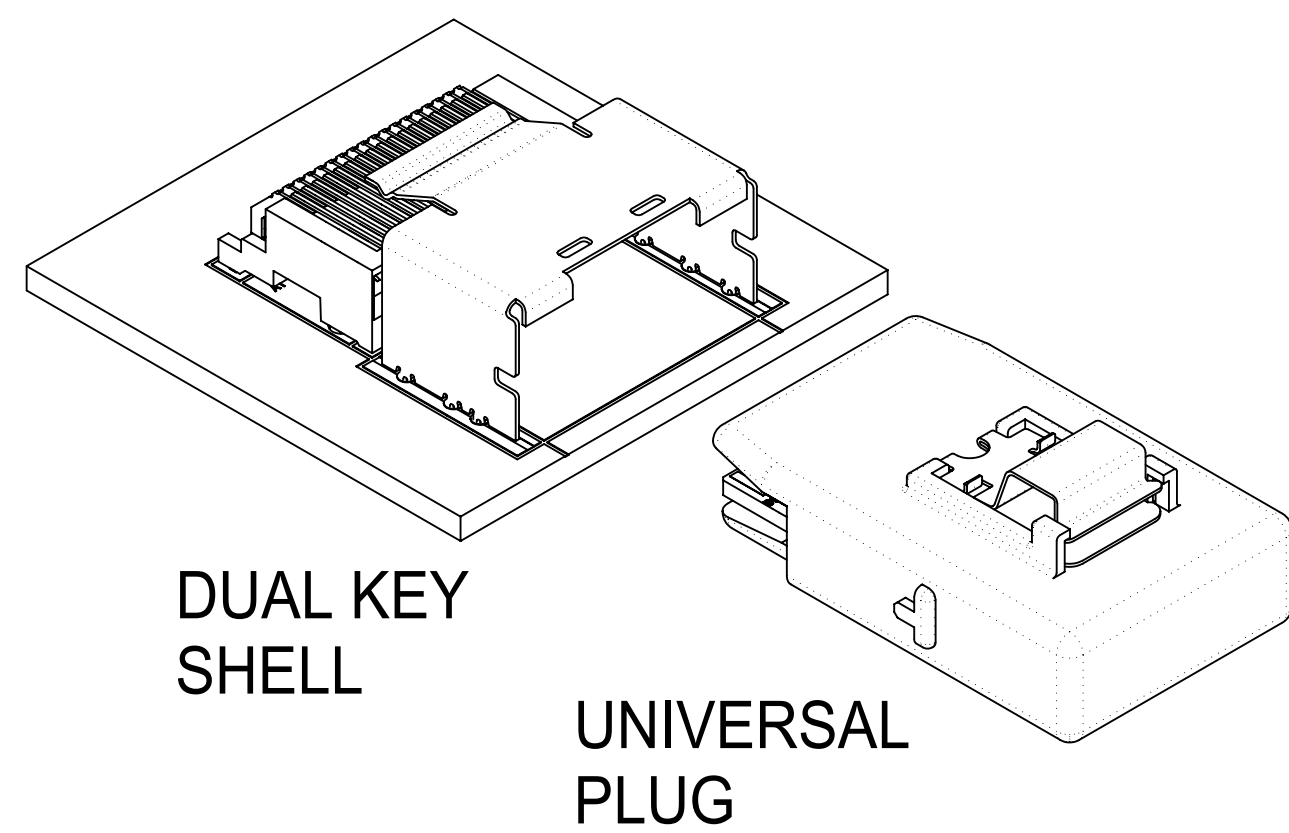
RIGHT KEY SHELL

RIGHT KEY PLUG



UNIVERSAL SHELL


NO KEY PLUG



DUAL KEY SHELL

UNIVERSAL PLUG


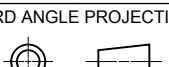
|                | UNIVERSAL SHELL | LEFT KEY SHELL | RIGHT KEY SHELL | DUAL KEY SHELL |
|----------------|-----------------|----------------|-----------------|----------------|
| NO KEY PLUG    | YES             | NO             | NO              | NO             |
| LEFT KEY PLUG  | YES             | YES            | NO              | NO             |
| RIGHT KEY PLUG | YES             | NO             | YES             | NO             |
| UNIVERSAL PLUG | YES             | YES            | YES             | YES            |

|   |  |                 |                        |                                       |                  |                   |            |              |                          |  |          |          |          |
|---|--|-----------------|------------------------|---------------------------------------|------------------|-------------------|------------|--------------|--------------------------|--|----------|----------|----------|
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |                 |                        |                                       |                  |                   |            |              |                          |  |          |          |          |
| SYMBOLS   |  | DIMENSION UNITS |                        | SCALE                                 |                  | CURRENT REV DESC: |            |              |                          |  |          |          |          |
| ▽ = 0   | mm   | 1:1             |                        | GENERAL TOLERANCES (UNLESS SPECIFIED) |                  | EC NO: 173961     |            | 2018/03/19   |                          | <br>I-PASS R/A CONNECTOR<br>INTERNAL ASSY W/SHELL 0.8MM PITCH I/O |          |          |          |
| ▽ = 0   | ANGULAR TOL ± 0.5°                                   |                 | 4 PLACES ±             |                                       | DRWN: RWHIPPLE   |                   | 2018/03/21 |              |                          |  |          |          |          |
| ▽ = 0   | 3 PLACES ±   |                 | 2 PLACES ± 0.13        |                                       | CHK'D: SMILLER   |                   | 2018/03/21 |              | PRODUCT CUSTOMER DRAWING |  |          |          |          |
| ▽ = 0   | 1 PLACE ± 0.25                                       |                 | 0 PLACES ±             |                                       | APPR: SMILLER    |                   | 2018/03/21 |              | INITIAL REVISION:        |  |          |          |          |
| ☒ = 0   | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |                 | THIRD ANGLE PROJECTION |                                       | DRWN: KCALLAGHAN |                   | 2016/07/21 |              | DOCUMENT NUMBER          |  | DOC TYPE | DOC PART | REVISION |
| ▽ = 0   | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |                 | THIRD ANGLE PROJECTION |                                       | APPR: TMCLELL    |                   | 2016/08/24 |              | SD-75783-001             |  | PSD      | 001      | F        |
| DRAWING   |  | SERIES          |                        | MATERIAL NUMBER                       |                  | CUSTOMER          |            | SHEET NUMBER |                          |  |          |          |          |
| C-SIZE  |  | 75783           |                        | SEE TABLE                             |                  | GENERAL MARKET    |            | 7 OF 13      |                          |  |          |          |          |

# 26 CIRCUIT ITEM NUMBERS

| CIRCUIT SIZE | ITEM NUMBER | PLATING OPTION | SHELL PCB OPTION | SHELL KEY OPTION |
|--------------|-------------|----------------|------------------|------------------|
| 26           | 75783-0007  | OPTION 1       | RETENTION        | LEFT             |
| 26           | 75783-0008  | OPTION 1       | RETENTION        | RIGHT            |
| 26           | 75783-0009  | OPTION 1       | RETENTION        | DUAL             |
| 26           | 75783-0010  | OPTION 1       | SMT              | LEFT             |
| 26           | 75783-0011  | OPTION 1       | SMT              | RIGHT            |
| 26           | 75783-0012  | OPTION 1       | SMT              | DUAL             |
| 26           | 75783-0019  | OPTION 2       | RETENTION        | LEFT             |
| 26           | 75783-0020  | OPTION 2       | RETENTION        | RIGHT            |
| 26           | 75783-0021  | OPTION 2       | RETENTION        | DUAL             |
| 26           | 75783-0022  | OPTION 2       | SMT              | LEFT             |
| 26           | 75783-0023  | OPTION 2       | SMT              | RIGHT            |
| 26           | 75783-0024  | OPTION 2       | SMT              | DUAL             |
| 26           | 75783-0025  | OPTION 1       | RETENTION        | UNIVERSAL        |
| 26           | 75783-0026  | OPTION 1       | SMT              | UNIVERSAL        |
| 26           | 75783-0027  | OPTION 2       | RETENTION        | UNIVERSAL        |
| 26           | 75783-0028  | OPTION 2       | SMT              | UNIVERSAL        |
| 26           | 75783-0029  | OPTION 1       | T/H 1.96         | LEFT             |
| 26           | 75783-0030  | OPTION 1       | T/H 1.96         | RIGHT            |
| 26           | 75783-0031  | OPTION 1       | T/H 1.96         | DUAL             |
| 26           | 75783-0032  | OPTION 1       | T/H 1.96         | UNIVERSAL        |
| 26           | 75783-0033  | OPTION 2       | T/H 1.96         | LEFT             |
| 26           | 75783-0034  | OPTION 2       | T/H 1.96         | RIGHT            |
| 26           | 75783-0035  | OPTION 2       | T/H 1.96         | DUAL             |
| 26           | 75783-0036  | OPTION 2       | T/H 1.96         | UNIVERSAL        |

| CIRCUIT SIZE | ITEM NUMBER | PLATING OPTION | SHELL PCB OPTION | SHELL KEY OPTION |
|--------------|-------------|----------------|------------------|------------------|
| 26           | 75783-0037  | OPTION 1       | T/H 2.79         | LEFT             |
| 26           | 75783-0038  | OPTION 1       | T/H 2.79         | RIGHT            |
| 26           | 75783-0039  | OPTION 1       | T/H 2.79         | DUAL             |
| 26           | 75783-0040  | OPTION 1       | T/H 2.79         | UNIVERSAL        |
| 26           | 75783-0041  | OPTION 2       | T/H 2.79         | LEFT             |
| 26           | 75783-0042  | OPTION 2       | T/H 2.79         | RIGHT            |
| 26           | 75783-0043  | OPTION 2       | T/H 2.79         | DUAL             |
| 26           | 75783-0044  | OPTION 2       | T/H 2.79         | UNIVERSAL        |
| 26           | 75783-0045  | OPTION 1       | T/H 3.18         | LEFT             |
| 26           | 75783-0046  | OPTION 1       | T/H 3.18         | RIGHT            |
| 26           | 75783-0047  | OPTION 1       | T/H 3.18         | DUAL             |
| 26           | 75783-0048  | OPTION 1       | T/H 3.18         | UNIVERSAL        |
| 26           | 75783-0049  | OPTION 2       | T/H 3.18         | LEFT             |
| 26           | 75783-0050  | OPTION 2       | T/H 3.18         | RIGHT            |
| 26           | 75783-0051  | OPTION 2       | T/H 3.18         | DUAL             |
| 26           | 75783-0052  | OPTION 2       | T/H 3.18         | UNIVERSAL        |

|   |  |       |   |  |         |  |   |  |                              |                            |                         |
|---|--|-------|---|--|---------|--|---|--|------------------------------|----------------------------|-------------------------|
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |       |   |  |         |  |   |  |                              |                            |                         |
| SYMBOLS   | DIMENSION UNITS                                      | SCALE | CURRENT REV DESC:   |  |         |  |  |  |                              |                            |                         |
|   | mm   | 1:1   |   |  |         |  |   |  |                              |                            |                         |
| ▽ = 0   | GENERAL TOLERANCES (UNLESS SPECIFIED)                |       | EC NO: 173961   |  |         |  | I-PASS R/A CONNECTOR<br>INTERNAL ASSY W/SHELL 0.8MM PITCH I/O                         |  |                              |                            |                         |
| ▽ = 0   | ANGULAR TOL ± 0.5°                                   |       | DRWN: RWHIPPLE 2018/03/19   |  |         |  |   |  |                              |                            |                         |
| ▽ = 0   | 4 PLACES ±   |       | CHK'D: SMILLER 2018/03/21   |  |         |  | PRODUCT CUSTOMER DRAWING  |  |                              |                            |                         |
| ▽ = 0   | 3 PLACES ±   |       | APPR: SMILLER 2018/03/21  |  |         |  |   |  |                              |                            |                         |
| ▽ = 0   | 2 PLACES ± 0.13                                      |       | INITIAL REVISION:   |  |         |  | DOCUMENT NUMBER<br><b>SD-75783-001</b>  |  |                              |                            |                         |
| ▽ = 0   | 1 PLACE ± 0.25                                       |       | DRWN: KCALLAGHAN 2016/07/21   |  |         |  |   |  |                              |                            |                         |
| ▽ = 0   | 0 PLACES ±   |       | APPR: TMCLELL 2016/08/24  |  |         |  | DOC TYPE DOC PART REVISION<br>PSD 001 F   |  |                              |                            |                         |
| ▽ = 0   | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |       | THIRD ANGLE PROJECTION  |  | DRAWING |  |   |  |                              | SERIES                     |                         |
| ▽ = 0   |  |       |  |  | C-SIZE  |  | 75783   |  | MATERIAL NUMBER<br>SEE TABLE | CUSTOMER<br>GENERAL MARKET | SHEET NUMBER<br>8 OF 13 |



# 36 CIRCUIT ITEM NUMBERS

| CIRCUIT SIZE | ITEM NUMBER | PLATING OPTION | SHELL PCB OPTION | SHELL KEY OPTION |
|--------------|-------------|----------------|------------------|------------------|
| 36           | 75783-0107  | OPTION 1       | RETENTION        | LEFT             |
| 36           | 75783-0108  | OPTION 1       | RETENTION        | RIGHT            |
| 36           | 75783-0109  | OPTION 1       | RETENTION        | DUAL             |
| 36           | 75783-0110  | OPTION 1       | SMT              | LEFT             |
| 36           | 75783-0111  | OPTION 1       | SMT              | RIGHT            |
| 36           | 75783-0112  | OPTION 1       | SMT              | DUAL             |
| 36           | 75783-0119  | OPTION 2       | RETENTION        | LEFT             |
| 36           | 75783-0120  | OPTION 2       | RETENTION        | RIGHT            |
| 36           | 75783-0121  | OPTION 2       | RETENTION        | DUAL             |
| 36           | 75783-0122  | OPTION 2       | SMT              | LEFT             |
| 36           | 75783-0123  | OPTION 2       | SMT              | RIGHT            |
| 36           | 75783-0124  | OPTION 2       | SMT              | DUAL             |
| 36           | 75783-0125  | OPTION 1       | RETENTION        | UNIVERSAL        |
| 36           | 75783-0126  | OPTION 1       | SMT              | UNIVERSAL        |
| 36           | 75783-0127  | OPTION 2       | RETENTION        | UNIVERSAL        |
| 36           | 75783-0128  | OPTION 2       | SMT              | UNIVERSAL        |
| 36           | 75783-0129  | OPTION 1       | T/H 1.96         | LEFT             |
| 36           | 75783-0130  | OPTION 1       | T/H 1.96         | RIGHT            |
| 36           | 75783-0131  | OPTION 1       | T/H 1.96         | DUAL             |
| 36           | 75783-0132  | OPTION 1       | T/H 1.96         | UNIVERSAL        |
| 36           | 75783-0133  | OPTION 2       | T/H 1.96         | LEFT             |
| 36           | 75783-0134  | OPTION 2       | T/H 1.96         | RIGHT            |
| 36           | 75783-0135  | OPTION 2       | T/H 1.96         | DUAL             |
| 36           | 75783-0136  | OPTION 2       | T/H 1.96         | UNIVERSAL        |
| 36           | 75783-0170  | OPTION 1       | T/H 1.40         | UNIVERSAL        |

| CIRCUIT SIZE | ITEM NUMBER | PLATING OPTION | SHELL PCB OPTION | SHELL KEY OPTION |
|--------------|-------------|----------------|------------------|------------------|
| 36           | 75783-0137  | OPTION 1       | T/H 2.79         | LEFT             |
| 36           | 75783-0138  | OPTION 1       | T/H 2.79         | RIGHT            |
| 36           | 75783-0139  | OPTION 1       | T/H 2.79         | DUAL             |
| 36           | 75783-0140  | OPTION 1       | T/H 2.79         | UNIVERSAL        |
| 36           | 75783-0141  | OPTION 2       | T/H 2.79         | LEFT             |
| 36           | 75783-0142  | OPTION 2       | T/H 2.79         | RIGHT            |
| 36           | 75783-0143  | OPTION 2       | T/H 2.79         | DUAL             |
| 36           | 75783-0144  | OPTION 2       | T/H 2.79         | UNIVERSAL        |
| 36           | 75783-0145  | OPTION 1       | T/H 3.18         | LEFT             |
| 36           | 75783-0146  | OPTION 1       | T/H 3.18         | RIGHT            |
| 36           | 75783-0147  | OPTION 1       | T/H 3.18         | DUAL             |
| 36           | 75783-0148  | OPTION 1       | T/H 3.18         | UNIVERSAL        |
| 36           | 75783-0149  | OPTION 2       | T/H 3.18         | LEFT             |
| 36           | 75783-0150  | OPTION 2       | T/H 3.18         | RIGHT            |
| 36           | 75783-0151  | OPTION 2       | T/H 3.18         | DUAL             |
| 36           | 75783-0152  | OPTION 2       | T/H 3.18         | UNIVERSAL        |
| 36           | 75783-0153  | OPTION 1       | T/H 3.56         | LEFT             |
| 36           | 75783-0154  | OPTION 1       | T/H 3.56         | RIGHT            |
| 36           | 75783-0155  | OPTION 1       | T/H 3.56         | DUAL             |
| 36           | 75783-0156  | OPTION 1       | T/H 3.56         | UNIVERSAL        |
| 36           | 75783-0157  | OPTION 2       | T/H 3.56         | LEFT             |
| 36           | 75783-0158  | OPTION 2       | T/H 3.56         | RIGHT            |
| 36           | 75783-0159  | OPTION 2       | T/H 3.56         | DUAL             |
| 36           | 75783-0160  | OPTION 2       | T/H 3.56         | UNIVERSAL        |

|  |   |  |                            |  |                   |  |                           |  |   |  |                   |  |   |  |                                      |  |                                |  |  |  |
|--|---|--|----------------------------|--|-------------------|--|---------------------------|--|---|--|-------------------|--|---|--|--------------------------------------|--|--------------------------------|--|--|--|
| <b>SYMBOLS</b><br> = 0<br> = 0<br> = 0<br> = 0<br> = 0<br> = 0<br> = 0<br> = 0 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  | DIMENSION UNITS: <b>mm</b> |  | SCALE: <b>1:1</b> |  | CURRENT REV DESC:         |  |  |  |                   |  |   |  |                                      |  |                                |  |  |  |
|  | GENERAL TOLERANCES (UNLESS SPECIFIED)   |  | ANGULAR TOL ± 0.5°         |  | EC NO: 173961     |  | DRWN: RWHIPPLE 2018/03/19 |  |   |  |                   |  | I-PASS R/A CONNECTOR<br>INTERNAL ASSY W/SHELL 0.8MM PITCH I/O |  |                                      |  |                                |  |  |  |
|  | 4 PLACES ±  |  | 3 PLACES ±                 |  | 2 PLACES ± 0.13   |  | 1 PLACE ± 0.25            |  | 0 PLACES ±  |  | INITIAL REVISION: |  | DRWN: KCALLAGHAN 2016/07/21                                   |  | APPR: SMILLER 2018/03/21             |  | PRODUCT CUSTOMER DRAWING       |  |  |  |
|  | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS  |  | THIRD ANGLE PROJECTION     |  | DRAWING           |  | SERIES                    |  | MATERIAL NUMBER   |  | CUSTOMER          |  | SHEET NUMBER  |  | DOCUMENT NUMBER: <b>SD-75783-001</b> |  |                                |  |  |  |
|  | SEE TABLE   |  | GENERAL MARKET             |  | C-SIZE            |  | 75783                     |  | 9 OF 13   |  | PSD               |  | 001   |  | F                                    |  | DOC TYPE   DOC PART   REVISION |  |  |  |

# 50 CIRCUIT ITEM NUMBERS

| CIRCUIT SIZE | ITEM NUMBER | PLATING OPTION | SHELL PCB OPTION | SHELL KEY OPTION |
|--------------|-------------|----------------|------------------|------------------|
| 50           | 75783-0207  | OPTION 1       | RETENTION        | LEFT             |
| 50           | 75783-0208  | OPTION 1       | RETENTION        | RIGHT            |
| 50           | 75783-0209  | OPTION 1       | RETENTION        | DUAL             |
| 50           | 75783-0210  | OPTION 1       | SMT              | LEFT             |
| 50           | 75783-0211  | OPTION 1       | SMT              | RIGHT            |
| 50           | 75783-0212  | OPTION 1       | SMT              | DUAL             |
| 50           | 75783-0219  | OPTION 2       | RETENTION        | LEFT             |
| 50           | 75783-0220  | OPTION 2       | RETENTION        | RIGHT            |
| 50           | 75783-0221  | OPTION 2       | RETENTION        | DUAL             |
| 50           | 75783-0222  | OPTION 2       | SMT              | LEFT             |
| 50           | 75783-0223  | OPTION 2       | SMT              | RIGHT            |
| 50           | 75783-0224  | OPTION 2       | SMT              | DUAL             |
| 50           | 75783-0225  | OPTION 1       | RETENTION        | UNIVERSAL        |
| 50           | 75783-0226  | OPTION 1       | SMT              | UNIVERSAL        |
| 50           | 75783-0227  | OPTION 2       | RETENTION        | UNIVERSAL        |
| 50           | 75783-0228  | OPTION 2       | SMT              | UNIVERSAL        |
| 50           | 75783-0229  | OPTION 1       | T/H 1.96         | LEFT             |
| 50           | 75783-0230  | OPTION 1       | T/H 1.96         | RIGHT            |
| 50           | 75783-0231  | OPTION 1       | T/H 1.96         | DUAL             |
| 50           | 75783-0232  | OPTION 1       | T/H 1.96         | UNIVERSAL        |
| 50           | 75783-0233  | OPTION 2       | T/H 1.96         | LEFT             |
| 50           | 75783-0234  | OPTION 2       | T/H 1.96         | RIGHT            |
| 50           | 75783-0235  | OPTION 2       | T/H 1.96         | DUAL             |
| 50           | 75783-0236  | OPTION 2       | T/H 1.96         | UNIVERSAL        |

| CIRCUIT SIZE | ITEM NUMBER | PLATING OPTION | SHELL PCB OPTION | SHELL KEY OPTION |
|--------------|-------------|----------------|------------------|------------------|
| 50           | 75783-0237  | OPTION 1       | T/H 2.79         | LEFT             |
| 50           | 75783-0238  | OPTION 1       | T/H 2.79         | RIGHT            |
| 50           | 75783-0239  | OPTION 1       | T/H 2.79         | DUAL             |
| 50           | 75783-0240  | OPTION 1       | T/H 2.79         | UNIVERSAL        |
| 50           | 75783-0241  | OPTION 2       | T/H 2.79         | LEFT             |
| 50           | 75783-0242  | OPTION 2       | T/H 2.79         | RIGHT            |
| 50           | 75783-0243  | OPTION 2       | T/H 2.79         | DUAL             |
| 50           | 75783-0244  | OPTION 2       | T/H 2.79         | UNIVERSAL        |
| 50           | 75783-0245  | OPTION 1       | T/H 3.18         | LEFT             |
| 50           | 75783-0246  | OPTION 1       | T/H 3.18         | RIGHT            |
| 50           | 75783-0247  | OPTION 1       | T/H 3.18         | DUAL             |
| 50           | 75783-0248  | OPTION 1       | T/H 3.18         | UNIVERSAL        |
| 50           | 75783-0249  | OPTION 2       | T/H 3.18         | LEFT             |
| 50           | 75783-0250  | OPTION 2       | T/H 3.18         | RIGHT            |
| 50           | 75783-0251  | OPTION 2       | T/H 3.18         | DUAL             |
| 50           | 75783-0252  | OPTION 2       | T/H 3.18         | UNIVERSAL        |

|   |   |                        |                   |            |                 |                |          |          |
|---|---|------------------------|-------------------|------------|-----------------|----------------|----------|----------|
| <b>SYMBOLS</b><br>= 0<br>= 0<br>= 0<br>= 0<br>= 0<br>= 0<br>= 0<br>= 0<br>= 0 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |                   |            |                 |                |          |          |
|   | DIMENSION UNITS   | SCALE                  | CURRENT REV DESC: |            |                 |                |          |          |
|   | mm  | 1:1                    |                   |            |                 |                |          |          |
|   | GENERAL TOLERANCES (UNLESS SPECIFIED)   |                        | EC NO: 173961     |            |                 |                |          |          |
|   | ANGULAR TOL ± 0.5°  |                        | DRWN: RWHIPPLE    | 2018/03/19 |                 |                |          |          |
|   | 4 PLACES ±  |                        | CHK'D: SMILLER    | 2018/03/21 |                 |                |          |          |
|   | 3 PLACES ±  |                        | APPR: SMILLER     | 2018/03/21 |                 |                |          |          |
|   | 2 PLACES ± 0.13   |                        | INITIAL REVISION: |            |                 |                |          |          |
|   | 1 PLACE ± 0.25  |                        | DRWN: KCALLAGHAN  | 2016/07/21 |                 |                |          |          |
|   | 0 PLACES ±  |                        | APPR: TMCLELL     | 2016/08/24 |                 |                |          |          |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                          |   | THIRD ANGLE PROJECTION | DRAWING           | SERIES     | DOCUMENT NUMBER | DOC TYPE       | DOC PART | REVISION |
|   |   |                        | C-SIZE            | 75783      | SD-75783-001    | PSD            | 001      | F        |
|   |   |                        |                   |            | SEE TABLE       | GENERAL MARKET |          | 10 OF 13 |

**molex**

I-PASS R/A CONNECTOR  
INTERNAL ASSY W/SHELL 0.8MM PITCH I/O

PRODUCT CUSTOMER DRAWING

# 68 CIRCUIT ITEM NUMBERS

| CIRCUIT SIZE | ITEM NUMBER | PLATING OPTION | SHELL PCB OPTION | SHELL KEY OPTION |
|--------------|-------------|----------------|------------------|------------------|
| 68           | 75783-0307  | OPTION 1       | RETENTION        | LEFT             |
| 68           | 75783-0308  | OPTION 1       | RETENTION        | RIGHT            |
| 68           | 75783-0309  | OPTION 1       | RETENTION        | DUAL             |
| 68           | 75783-0310  | OPTION 1       | SMT              | LEFT             |
| 68           | 75783-0311  | OPTION 1       | SMT              | RIGHT            |
| 68           | 75783-0312  | OPTION 1       | SMT              | DUAL             |
| 68           | 75783-0319  | OPTION 2       | RETENTION        | LEFT             |
| 68           | 75783-0320  | OPTION 2       | RETENTION        | RIGHT            |
| 68           | 75783-0321  | OPTION 2       | RETENTION        | DUAL             |
| 68           | 75783-0322  | OPTION 2       | SMT              | LEFT             |
| 68           | 75783-0323  | OPTION 2       | SMT              | RIGHT            |
| 68           | 75783-0324  | OPTION 2       | SMT              | DUAL             |
| 68           | 75783-0325  | OPTION 1       | RETENTION        | UNIVERSAL        |
| 68           | 75783-0326  | OPTION 1       | SMT              | UNIVERSAL        |
| 68           | 75783-0327  | OPTION 2       | RETENTION        | UNIVERSAL        |
| 68           | 75783-0328  | OPTION 2       | SMT              | UNIVERSAL        |
| 68           | 75783-0329  | OPTION 1       | T/H 1.96         | LEFT             |
| 68           | 75783-0330  | OPTION 1       | T/H 1.96         | RIGHT            |
| 68           | 75783-0331  | OPTION 1       | T/H 1.96         | DUAL             |
| 68           | 75783-0332  | OPTION 1       | T/H 1.96         | UNIVERSAL        |
| 68           | 75783-0333  | OPTION 2       | T/H 1.96         | LEFT             |
| 68           | 75783-0334  | OPTION 2       | T/H 1.96         | RIGHT            |
| 68           | 75783-0335  | OPTION 2       | T/H 1.96         | DUAL             |
| 68           | 75783-0336  | OPTION 2       | T/H 1.96         | UNIVERSAL        |

| CIRCUIT SIZE | ITEM NUMBER | PLATING OPTION | SHELL PCB OPTION | SHELL KEY OPTION |
|--------------|-------------|----------------|------------------|------------------|
| 68           | 75783-0337  | OPTION 1       | T/H 2.79         | LEFT             |
| 68           | 75783-0338  | OPTION 1       | T/H 2.79         | RIGHT            |
| 68           | 75783-0339  | OPTION 1       | T/H 2.79         | DUAL             |
| 68           | 75783-0340  | OPTION 1       | T/H 2.79         | UNIVERSAL        |
| 68           | 75783-0341  | OPTION 2       | T/H 2.79         | LEFT             |
| 68           | 75783-0342  | OPTION 2       | T/H 2.79         | RIGHT            |
| 68           | 75783-0343  | OPTION 2       | T/H 2.79         | DUAL             |
| 68           | 75783-0344  | OPTION 2       | T/H 2.79         | UNIVERSAL        |
| 68           | 75783-0345  | OPTION 1       | T/H 3.18         | LEFT             |
| 68           | 75783-0346  | OPTION 1       | T/H 3.18         | RIGHT            |
| 68           | 75783-0347  | OPTION 1       | T/H 3.18         | DUAL             |
| 68           | 75783-0348  | OPTION 1       | T/H 3.18         | UNIVERSAL        |
| 68           | 75783-0349  | OPTION 2       | T/H 3.18         | LEFT             |
| 68           | 75783-0350  | OPTION 2       | T/H 3.18         | RIGHT            |
| 68           | 75783-0351  | OPTION 2       | T/H 3.18         | DUAL             |
| 68           | 75783-0352  | OPTION 2       | T/H 3.18         | UNIVERSAL        |

|   |   |  |                            |  |                          |  |                             |  |  |  |                                      |  |                          |  |               |  |             |  |
|---|---|--|----------------------------|--|--------------------------|--|-----------------------------|--|--|--|--------------------------------------|--|--------------------------|--|---------------|--|-------------|--|
| <b>SYMBOLS</b><br> = 0<br> = 0<br> = 0<br> = 0<br> = 0<br> = 0<br> = 0<br> = 0<br> = 0 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  | DIMENSION UNITS: <b>mm</b> |  | SCALE: <b>1:1</b>        |  | CURRENT REV DESC:           |  | <br>I-PASS R/A CONNECTOR<br>INTERNAL ASSY W/SHELL 0.8MM PITCH I/O |  |                                      |  |                          |  |               |  |             |  |
|   | GENERAL TOLERANCES (UNLESS SPECIFIED)   |  | ANGULAR TOL ± 0.5°         |  | EC NO: 173961            |  | DRWN: RWHIPPLE 2018/03/19   |  |  |  |                                      |  | PRODUCT CUSTOMER DRAWING |  |               |  |             |  |
|   | 4 PLACES ±  |  | 3 PLACES ±                 |  | APPR: SMILLER 2018/03/21 |  | CHK'D: SMILLER 2018/03/21   |  |  |  |                                      |  |                          |  |               |  |             |  |
|   | 2 PLACES ± 0.13   |  | 1 PLACE ± 0.25             |  | INITIAL REVISION:        |  | DRWN: KCALLAGHAN 2016/07/21 |  | APPR: TMCLELL 2016/08/24   |  | DOCUMENT NUMBER: <b>SD-75783-001</b> |  | DOC TYPE: PSD            |  | DOC PART: 001 |  | REVISION: F |  |
|   | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS  |  | THIRD ANGLE PROJECTION     |  | DRAWING: C-SIZE          |  | SERIES: 75783               |  | MATERIAL NUMBER: SEE TABLE   |  | CUSTOMER: GENERAL MARKET             |  | SHEET NUMBER: 11 OF 13   |  |               |  |             |  |

# RIGHT ANGLE CONNECTOR WITH RETENTION FIT & THRU-HOLE SHELL PCB FOOT PRINT



**DETAIL Z  
SCALE 10:1**

|              | PEG TO PEG | FIRST PAD TO LAST PAD | CENTERLINE TO PAD | CENTERLINE TO PAD | CONNECTOR WIDTH SHELL PEG TO PEG | SHELL FOOTPRINT WIDTH |
|--------------|------------|-----------------------|-------------------|-------------------|----------------------------------|-----------------------|
| CIRCUIT SIZE | DIM 'A'    | DIM 'B'               | DIM 'C'           | DIM 'D'           | DIM 'E'                          | DIM 'F'               |
| 26           | 12.00      | 10.00                 | 4.60              | 5.00              | 13.80                            | 15.80                 |
| 36           | 16.00      | 14.00                 | 6.60              | 7.00              | 17.80                            | 19.80                 |
| 50           | 21.60      | 19.60                 | 9.40              | 9.80              | 23.40                            | 25.40                 |
| 68           | 28.80      | 26.80                 | 13.00             | 13.40             | 30.60                            | 32.60                 |

|              |                                       |   |  |                |                            |
|--------------|---------------------------------------|---|--|----------------|----------------------------|
| SYMBOLS      |                                       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |                |                            |
| $\nabla = 0$ | DIMENSION UNITS                       | SCALE   | CURRENT REV DESC:                                    |                |                            |
| $\nabla = 0$ | mm                                    | 1:1   | EC NO: 173961  |                |                            |
| $\nabla = 0$ | GENERAL TOLERANCES (UNLESS SPECIFIED) |   | DRWN: RWHIPPLE 2018/03/19                            |                |                            |
| $\nabla = 0$ | ANGULAR TOL $\pm 0.5^\circ$           |   | CHK'D: SMILLER 2018/03/21                            |                |                            |
| $\nabla = 0$ | 4 PLACES $\pm$                        |   | APPR: SMILLER 2018/03/21                             |                |                            |
| $\nabla = 0$ | 3 PLACES $\pm$                        |   | INITIAL REVISION:                                    |                |                            |
| $\nabla = 0$ | 2 PLACES $\pm 0.13$                   |   | DRWN: KCALLAGHAN 2016/07/21                          |                |                            |
| $\nabla = 0$ | 1 PLACE $\pm 0.25$                    |   | APPR: TMCLELL 2016/08/24                             |                |                            |
| $\nabla = 0$ | 0 PLACES $\pm$                        |   | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |                |                            |
| $\nabla = 0$ | THIRD ANGLE PROJECTION                |   | DRAWING  | SERIES         | DOCUMENT NUMBER            |
| $\nabla = 0$ | C-SIZE                                |   | 75783  | SD-75783-001   | DOC TYPE DOC PART REVISION |
|              |                                       | MATERIAL NUMBER   |  | CUSTOMER       | SHEET NUMBER               |
|              |                                       | SEE TABLE   |  | GENERAL MARKET | 12 OF 13                   |



I-PASS R/A CONNECTOR  
INTERNAL ASSY W/SHELL 0.8MM PITCH I/O

PRODUCT CUSTOMER DRAWING

H  
G  
F  
E  
D  
C  
B  
A

| DATE       | REV | DESCRIPTION   |
|------------|-----|---|
| 2018/03/20 | F   | 1. REMASTERED FROM MODEL MANAGER                                |
|            |     | 2. SHEET 1, NOTE 3, COPLANAR DISTANCE CHANGED FROM 0.15 TO 0.10 |
|            |     |   |
|            |     |   |
|            |     |   |
|            |     |   |
|            |     |   |

|   |                                       |                     |  |  |                          |                        |                              |  |                            |  |                          |  |                          |                 |               |
|---|---------------------------------------|---------------------|--|--|--------------------------|------------------------|------------------------------|--|----------------------------|--|--------------------------|--|--------------------------|-----------------|---------------|
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION   |                                       |                     |  |  |                          |                        |                              |  |                            |  |                          |  |                          |                 |               |
| <b>SYMBOLS</b><br> = 0<br> = 0<br> = 0<br> = 0<br> = 0<br> = 0<br> = 0<br> = 0<br> = 0 | DIMENSION UNITS<br><b>mm</b>          | SCALE<br><b>1:1</b> | CURRENT REV DESC:<br><br>EC NO: 173961<br>DRWN: RWHIPPLE 2018/03/19<br>CHK'D: SMILLER 2018/03/21<br>APPR: SMILLER 2018/03/21 |  |                          |                        |                              |  |                            | <br><br>I-PASS R/A CONNECTOR<br>INTERNAL ASSY W/SHELL 0.8MM PITCH I/O |                          |  |                          |                 |               |
|   | GENERAL TOLERANCES (UNLESS SPECIFIED) |                     | INITIAL REVISION:<br>DRWN: KCALLAGHAN 2016/07/21<br>APPR: TMCLELL 2016/08/24   |  |                          |                        |                              |  |                            |  |                          |  | PRODUCT CUSTOMER DRAWING |                 |               |
|   | ANGULAR TOL ± 0.5°                    |                     | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS   |  |                          |                        |                              |  |                            | DOCUMENT NUMBER<br><b>SD-75783-001</b>   |                          |  | DOC TYPE<br>PSD          | DOC PART<br>001 | REVISION<br>F |
|   | 4 PLACES ±                            |                     | THIRD ANGLE PROJECTION<br>              |  | DRAWING<br><b>C-SIZE</b> | SERIES<br><b>75783</b> | MATERIAL NUMBER<br>SEE TABLE |  | CUSTOMER<br>GENERAL MARKET |  | SHEET NUMBER<br>13 OF 13 |  |                          |                 |               |
|   | 3 PLACES ±                            |                     | 2 PLACES ± 0.13  |  | 1 PLACE ± 0.25           |                        | 0 PLACES ±                   |  |                            |  |                          |  |                          |                 |               |