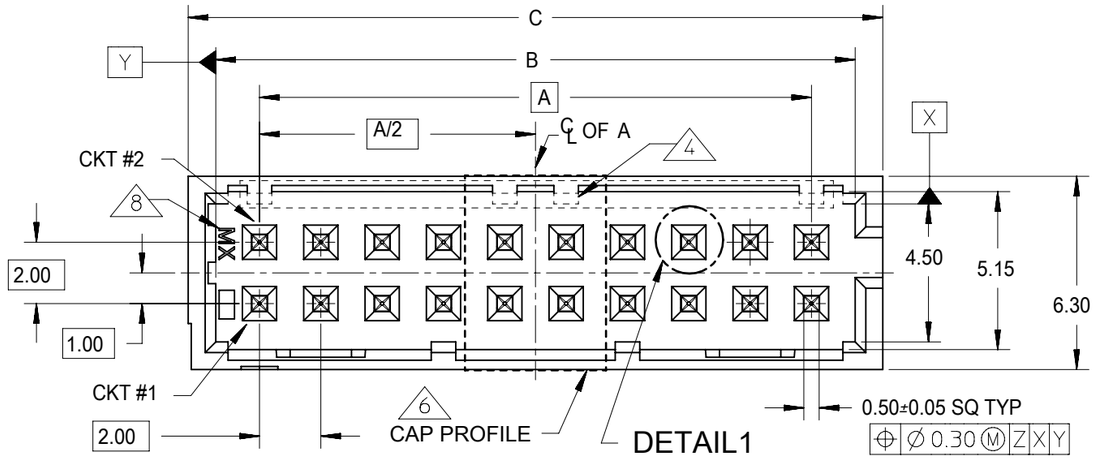
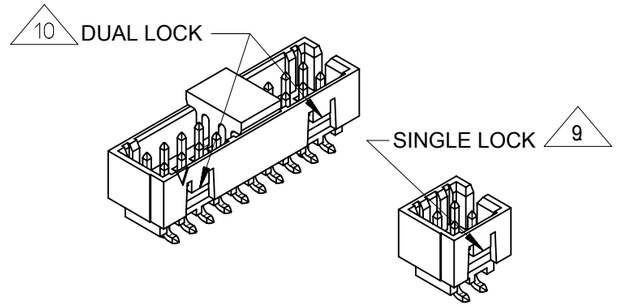
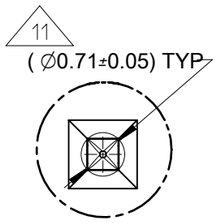
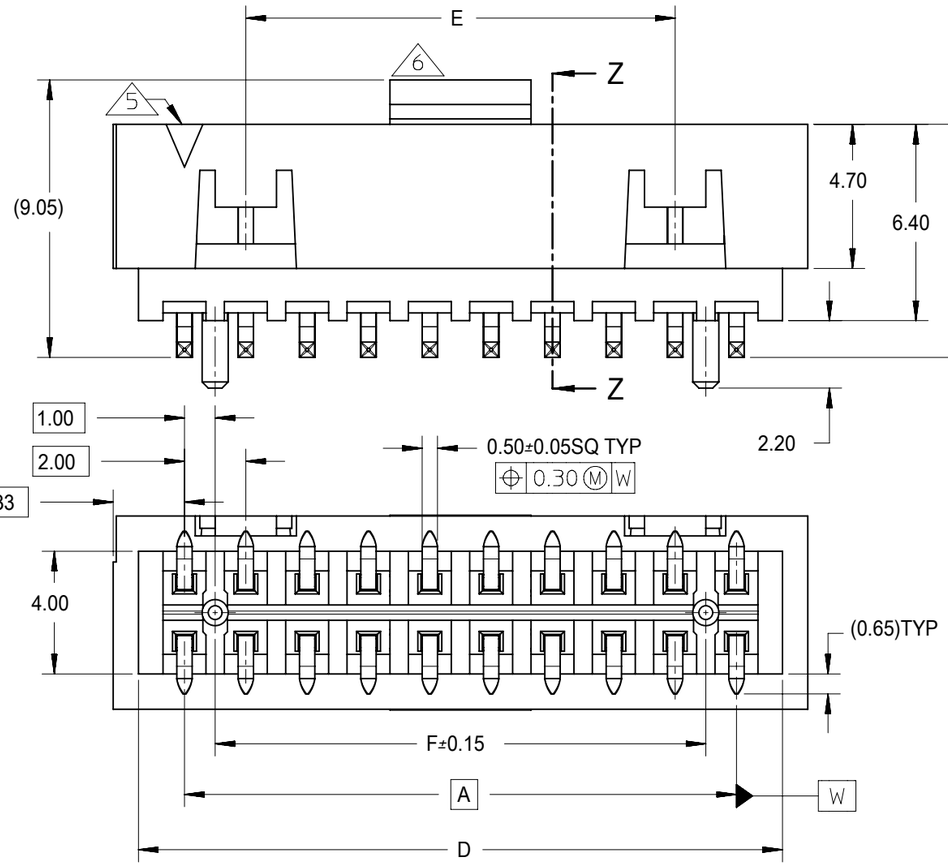
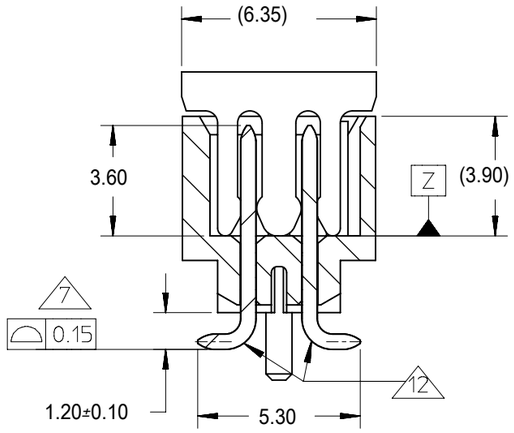



SECTION Z-Z

| CKT SIZE | DIMENSION | | | | | |
|---|---|---|---|---|---|---|
| | A | B | C | D | E | F |
| 4 | 2.00 | 4.85 | 6.65 | 5.00 | —— | —— |
| 6 | 4.00 | 6.85 | 8.65 | 7.00 | —— | 2.00 |
| 8 | 6.00 | 8.85 | 10.65 | 9.00 | —— | 4.00 |
| 10 | 8.00 | 10.85 | 12.65 | 11.00 | —— | 6.00 |
| 12 | 10.00 | 12.85 | 14.65 | 13.00 | —— | 8.00 |
| 14 | 12.00 | 14.85 | 16.65 | 15.00 | 8.00 | 10.00 |
| 16 | 14.00 | 16.85 | 18.65 | 17.00 | 10.00 | 12.00 |
| 18 | 16.00 | 18.85 | 20.65 | 19.00 | 12.00 | 14.00 |
| 20 | 18.00 | 20.85 | 22.65 | 21.00 | 14.00 | 16.00 |
| 22 | 20.00 | 22.85 | 24.65 | 23.00 | 16.00 | 18.00 |
| 24 | 22.00 | 24.85 | 26.65 | 25.00 | 18.00 | 20.00 |
| 26 | 24.00 | 26.85 | 28.65 | 27.00 | 20.00 | 22.00 |
| 28 | 26.00 | 28.85 | 30.65 | 29.00 | 22.00 | 24.00 |
| 30 | 28.00 | 30.85 | 32.65 | 31.00 | 24.00 | 26.00 |
| 32 | 30.00 | 32.85 | 34.65 | 33.00 | 26.00 | 28.00 |
| 34 | 32.00 | 34.85 | 36.65 | 35.00 | 28.00 | 30.00 |
| 36 | 34.00 | 36.85 | 38.65 | 37.00 | 30.00 | 32.00 |
| 38 | 36.00 | 38.85 | 40.65 | 39.00 | 32.00 | 34.00 |
| 40 | 38.00 | 40.85 | 42.65 | 41.00 | 34.00 | 36.00 |
| 42 | 40.00 | 42.85 | 44.65 | 43.00 | 36.00 | 38.00 |
| 44 | 42.00 | 44.85 | 46.65 | 45.00 | 38.00 | 40.00 |
| 46 | 44.00 | 46.85 | 48.65 | 47.00 | 40.00 | 42.00 |
| 48 | 46.00 | 48.85 | 50.65 | 49.00 | 42.00 | 44.00 |
| 50 | 48.00 | 50.85 | 52.65 | 51.00 | 44.00 | 46.00 |

NOTES:

1. FOR ILLUSTRATION PURPOSES, 20 CIRCUIT SIZE WAFER IS SHOWN.
2. MATERIAL :
   HOUSING : LCP, UL94V-0, GLOW WIRE CAPABLE PER IEC-60335-1 5TH EDITION, GLASS FILLED. COLOR: BLACK.
   PIN : 0.50MM SQ. COPPER ALLOY.
3. PRODUCT SPECIFICATION PS-151117-0001 APPLIES.
4. RIB LOCATION VARIES, DEPENDING ON CKT SIZES.
5. CKT 4 AND 6 HAS NO IDENTIFICATION TAG.
6. POSITION OF CAP TO BE LOCATED AT CENTER OF DIM A, IRREGARDLESS OF CKT SIZE. TOP SURFACE OF CAP TO BE FLAT FOR PICK & PLACE PURPOSE.
7. COPLANARITY IS TO BE MEASURED BY RESTING THE SOLDERTAIL ON A GAUGE SURFACE.
8. CAVITY ID AND MX LOGO SHALL BE LOCATED APPROXIMATELY AS SHOWN.
9. SINGLE LOCK FEATURE FOR 4-12CKT.
10. DUAL LOCK FEATURE FOR 14CKT AND ABOVE.
11. DETAIL 2 FOR MMC REFERENCE ONLY.
12. BEND DEPRESSION ON SMT TAIL IS ACCEPTABLE SO LONG IT DOES NOT AFFECT THE OVERALL COPLANARITY OF THE TAIL.

| DOCUMENT STATUS | P1 | RELEASE DATE | 2020/10/05 06:02:27 |
|---|---|---|---|

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

| DIMENSION UNITS | SCALE |
|---|---|
| mm | NTS |

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | MM | INCH |
|---|---|---|
| 4 PLACES | ± | ± |
| 3 PLACES | ± | ± |
| 2 PLACES | ± 0.2 | ± |
| 1 PLACE | ± | ± |
| 0 PLACES | ± | ± |
| ANGULAR TOL | ± 3.0 ° | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 646485

| | | |
|---|---|---|
| DRWN: | ABABUPS | 2020/08/14 |
| CHK'D: | MRAMAKRISHNA | 2020/10/05 |
| APPR: | MRAMAKRISHNA | 2020/10/05 |

INITIAL REVISION:

| | | |
|---|---|---|
| DRWN: | ATSEE | 2014/10/10 |
| APPR: | KHLIM | 2015/11/05 |

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 151118

molex

ASSEMBLY
MGRID, SHROUDED HEADER SMT

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| SD-151118-0001 | PSD | 001 | A4 |

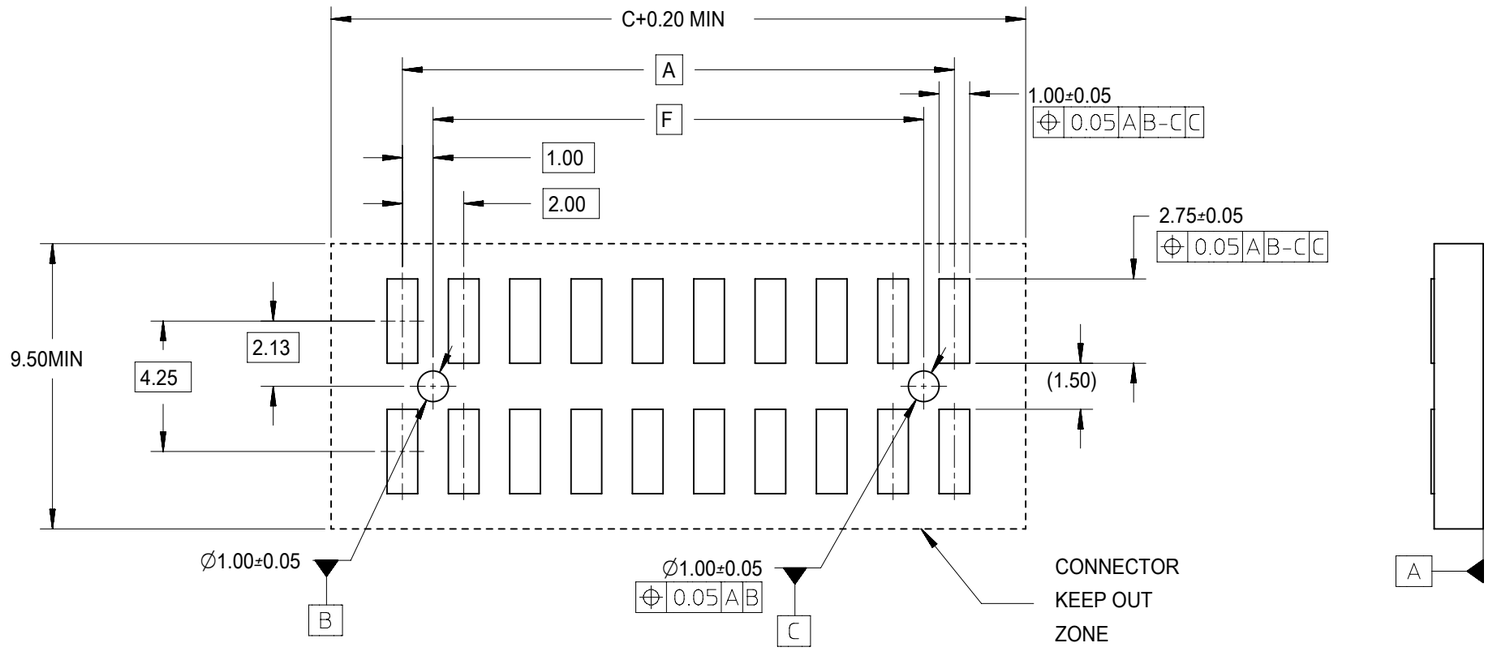
| MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|
| SEE TABLE | GENERAL MARKET | 1 OF 3 |

FORMAT: Mel-prod-header-tb-prod-A3
REVISION: D
DATE: 2018/01/19

# ASSEMBLY

# 151118 - X X XX

| PLATING OPTIONS | |
|---|---|
| -X0XX AND -X4XX | 2.00µm MIN. TIN OVERALL<br>1.25µm MIN. NICKEL OVERALL |
| -X1XX AND -X5XX | 0.05µm MIN. GOLD PLATE ON CONTACT AND<br>2.00µm MIN. TIN(MATTE) ON SOLDERTAIL OVER<br>1.25µm MIN. NICKEL OVERALL. |
| -X2XX AND -X6XX | 0.38µm MIN. GOLD PLATE ON CONTACT AND<br>2.00µm MIN. TIN(MATTE) ON SOLDERTAIL OVER<br>1.25µm MIN. NICKEL OVERALL. |
| -X3XX AND -X7XX | 0.75µm MIN. GOLD PLATE ON CONTACT AND<br>2.00µm MIN. TIN(MATTE) ON SOLDERTAIL OVER<br>1.25µm MIN. NICKEL OVERALL. |




RECOMMENDED PCB LAYOUT

| | |
|---|---|
| 04 - 50 | 4-50 CKT W/O PEG |
| 54 - 00 | 4-50 CKT WITH PEG |
| 50+(#)CKT | 54 = 4CKT<br>56 = 6CKT<br>.<br>.<br>.<br>98 = 48CKT<br>00 = 50CKT |
| # = NO OF CKT | |

| PLATING | | CAP OPTION |
|---|---|---|
| 0 | FULL TIN | WITHOUT CAP (FOR TUBE PACKAGING ONLY) |
| 1 | Au FLASH | |
| 2 | 0.38 Au | |
| 3 | 0.75 Au | |
| 4 | FULL TIN | WITH CAP (FOR TUBE AND T&R PACKAGING) |
| 5 | Au FLASH | |
| 6 | 0.38 Au | |
| 7 | 0.75 Au | |
| 8 | OTHER OPTIONS | |
| 9 | | |

| | PACKAGING |
|---|---|
| 0 | T & R |
| 1 | TUBE |
| 2 | T&R WITH MODIFIEFD RIB LOCATION |
| 3 | OTHER OPTIONS |
| 4 | |
| 5 | |
| 6 | |
| 7 | |
| 8 | |
| 9 | |

NOTES CONTINUE :

13. REFER TO PACKAGING SPECIFICATION
    FOR TUBE : PK-151118-0001
    FOR TAPE & REEL : PK-151118-3000

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

| DIMENSION UNITS | SCALE |
|---|---|
| mm | NTS |

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | MM | INCH |
|---|---|---|
| 4 PLACES | ± | ± |
| 3 PLACES | ± | ± |
| 2 PLACES | ± 0.2 | ± |
| 1 PLACE | ± | ± |
| 0 PLACES | ± | ± |
| ANGULAR TOL | ± 3.0 ° | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 646485
DRWN: ABABUPS 2020/08/14
CHK'D: MRAMAKRISHNA 2020/10/05
APPR: MRAMAKRISHNA 2020/10/05

INITIAL REVISION:
DRWN: ATSEE 2014/10/10
APPR: KHLIM 2015/11/05

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 151118

molex

ASSEMBLY
MGRID, SHROUDED HEADER SMT

PRODUCT CUSTOMER DRAWING

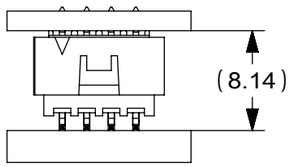
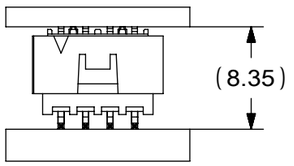
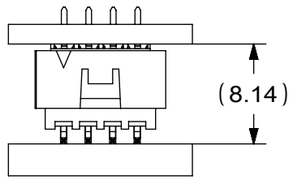
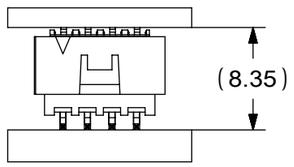
| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| SD-151118-0001 | PSD | 001 | A4 |

| MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|
| SEE TABLE | GENERAL MARKET | 2 OF 3 |

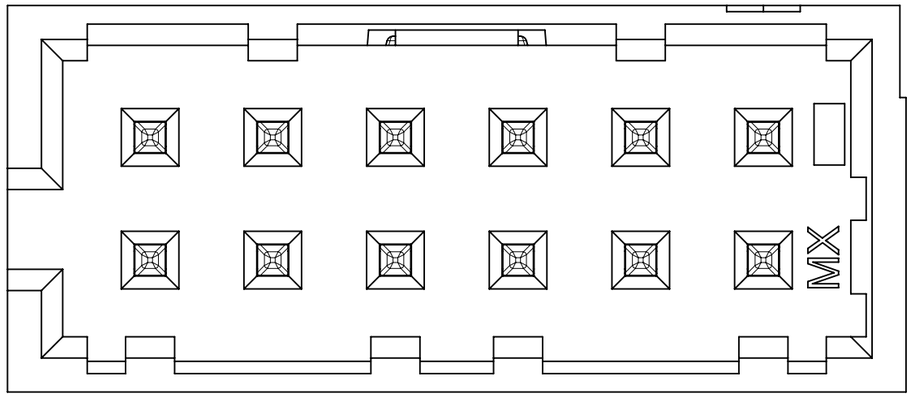
| DOCUMENT STATUS | P1 | RELEASE DATE | 2020/10/05 06:02:27 |
|---|---|---|---|

FORMAT: Molex-order-ib-prod-A3
REVISION: D
DATE: 2018/01/15

## BOARD TO BOARD (BTB) DISTANCE

| HEADER | MATES WITH (RECEPTACLE) | BTB DISTANCE | PICTORIAL VIEW |
|---|---|---|---|
| 151118 | 78787 | 8.14 |   |
| | 78788 | 8.35 |   |
| | 79107 | 8.14 |   |
| | 79109 | 8.35 |   |

MODIFIEFD RIB LOCATION ONLY FOR 151118-2X12




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

| DIMENSION UNITS | SCALE |
|---|---|
| mm | NTS |

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | MM | INCH |
|---|---|---|
| 4 PLACES | ± | ± |
| 3 PLACES | ± | ± |
| 2 PLACES | ± 0.2 | ± |
| 1 PLACE | ± | ± |
| 0 PLACES | ± | ± |
| ANGULAR TOL | ± 3.0 ° | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 646485
DRWN: ABABUPS 2020/08/14
CHK'D: MRAMAKRISHNA 2020/10/05
APPR: MRAMAKRISHNA 2020/10/05

INITIAL REVISION:
DRWN: DRWN BY XXXX/XX/XX
APPR: APPR BY XXXX/XX/XX

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 151118

molex

ASSEMBLY
MGRID, SHROUDED HEADER SMT

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| SD-151118-0001 | PSD | 001 | A4 |

| MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|
| | GENERAL MARKET | 3 OF 3 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2020/10/05 06:02:27 |
|---|---|---|---|

FORMAT: Molex-header-tb-prod-A3
REVISION: D
DATE: 2018/01/15

# Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

## molex:

447641402 760475001 5046940301 0190700155 152670269 190690096 190990009 397730002
436803002 447642001 0190690033 0436802002 151670255 190670071 190990010 459705185
759001161 0436400901 152670251 447691602 444280402 151660057 398800403 152670357
190730231 417920538 152660117 430450225 430451220 439151216