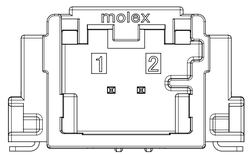
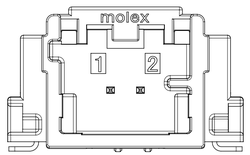


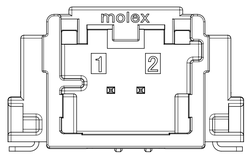

2 CKT SMT HEADER
POLARIZATION OPTION A



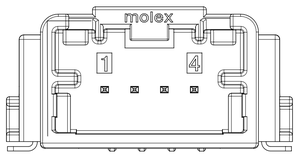

2 CKT SMT HEADER
POLARIZATION OPTION B



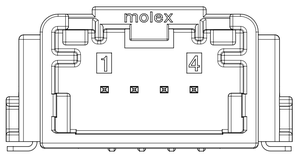

2 CKT SMT HEADER
POLARIZATION OPTION C



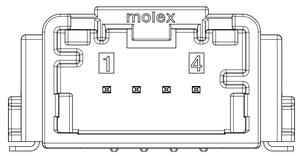

2 CKT SMT HEADER
POLARIZATION OPTION D



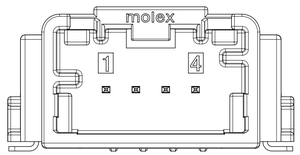

4 CKT SMT HEADER
POLARIZATION OPTION A



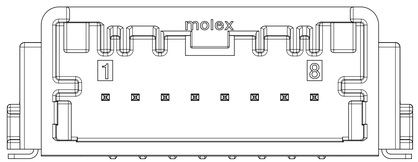

4 CKT SMT HEADER
POLARIZATION OPTION B



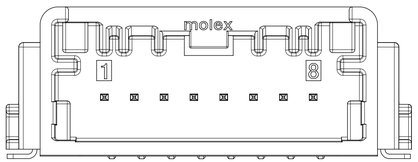

4 CKT SMT HEADER
POLARIZATION OPTION C



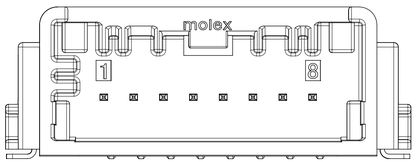

4 CKT SMT HEADER
POLARIZATION OPTION D




8 CKT SMT HEADER
POLARIZATION OPTION A




8 CKT SMT HEADER
POLARIZATION OPTION B




8 CKT SMT HEADER
POLARIZATION OPTION C

NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:
   a. APPLICATION SPECIFICATION SEE: AS-34791-020
   b. PRODUCT SPECIFICATION SEE: PS-34791-020
   c. PACKAGING SPECIFICATION PER MOLEX DRAWING: SEE CHART
   d. SOLDERABILITY PER SMES-152
   e. PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: QEHS-699000-300
   f. DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS (COMPANY ID# 13255)
   g. FLAMMABILITY REQUIREMENT: PER ISO3795 OR GM3191
   h. VISUAL DEFECTS SHALL MEET COSMETIC STANDARD PS-45499-002 (Class B)

2. DESIGN - MATERIALS:
   a. SHROUD (PLASTIC HOUSING): SPS 30% GF, 25% REGRIND MAX BY WEIGHT
   b. BLADES:
      BASE METAL: BRASS
      PLATING REQUIREMENTS:
         UNDERPLATING - OVERALL NICKEL
         OVERPLATING - OVERALL TIN
      GOLD:
      UNDERPLATING: OVERALL NICKEL
      OVERPLATING:
        CONTACT AREA - GOLD
        GRIP AREA - TIN

3. DESIGN - GEOMETRY:
   a. THIS IS A 100% CAD GENERATED PART. THE CAD MATHEMATICAL DATA IS THE MASTER FOR THIS PART. FOR DIMENSIONAL OR ANY INFORMATION NOT SHOWN ON THIS DRAWING, ANALYZE THE CAD MODEL.
   b. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M - 2009
   c. GENERAL TOLERANCES: SEE TITLE BLOCK
   d. EDGES AND UNDIMENSIONED DETAILS PER ISO13715
   e. CORNERS SHOWN AS SHARP TO BE R 0.1 MAX
   f. LETTERING SHALL BE BELOW SURROUNDING SURFACE OF PART. THIS INCLUDES RECYCLING CODE,PLANT AND CAVITY ID, VENDOR ID, AND CIRCUIT ID.
   g. TRACEABILITY TO BE MARKED IN AREA SHOWN. MARK IS CODED AS FOLLOWS:
      ROW 1 (XXXXX-XX): MOLEX SINGLE ROW SMT HEADER SERIES NUMBER (34912); ASSEMBLY NUMBER (-XX)
      ROW 2 (MMHHDDDYY):
      - 1ST & 2ND DIGITS: MINUTE IF ASSEMBLY
      - 3RD & 4TH DIGITS: HOUR OF ASSEMBLY (24 HOUR CLOCK)
        (EXAMPLE: 15:00 > '15'; 7:00 -> '07')
      - 5TH THRU 7TH DIGITS: JULIAN DATE (EXAMPLE: FEBRUARY 3RD -> '034')
      - 8TH & 9TH DIGITS: LAST 2 DIGITS OF CALENDAR YEAR (EXAMPLE: 2013 -> '13)

| REV | DESCRIPTION |
|---|---|
| M9 | SHEET 5: ADDED NEW PN 349126044 TO BOM TABLE |
| M8 | SHEET 5: ADDED 8WAY V0 GOLD PLATING PART INTO SD-DRAWING |
| M7 | SHEET 1: UPDATED NOTES 3.g TRACKING NUMBER INFORMATION<br>SHEET 5: ADDED STATUS INFORMATION IN CHART |
| M6 | ADDED 2CKT GOLD TUBE P/N; UPDATED 2CKT & 8CKT PCB LAYOUT BASIC DIM TO 4.11 |
| M5 | CORRECTED 2CKT PCB SOLDER TAIL PAD WIDTHS TO 0.66; WAS 0.90 |
| M4 | REMASTERED DRAWING, ADDED V0 PART NUMBERS TO BOM |
| M3 | ADDED NOTE ON PAGE 2, LABEL, AND PIN TP |
| M1 | NX REMASTERING |

| INSPECTION BALLOON NUMBER LOG |
|---|
| PER DRAWING REVISION: M9 |
| LAST BALLOON USED: 18 |
| ADDED BALLOON NUMBERS: |
| REMOVED BALLOON NUMBERS: |

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

FUNCTIONAL SYMBOLS
FA = 0
FC = 0
FE = 0
DIVISIONAL SYMBOLS

| DIMENSION UNITS | SCALE |
|---|---|
| MM | 5:1 |

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | |
|---|---|
| ANGULAR TOL | ± 1° |
| 4 PLACES | ± |
| 3 PLACES | ± |
| 2 PLACES | ± 0.100 |
| 1 PLACE | ± 0.20 |
| 0 PLACES | ± |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REFER TO REVISION COLUMN

STATUS: Production
DRWN: Leo Li 2025-06-30
CHK'D: Leo Li 2025-08-20
APPR: Wolffian Wang 2025-08-21

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 34912

molex

MINI50 2-8CKT SMT HDR SALES DWG

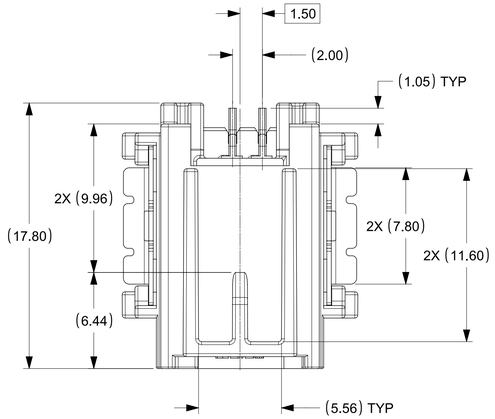
PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| SD-34912-001 | PSD | 000 | M9 |

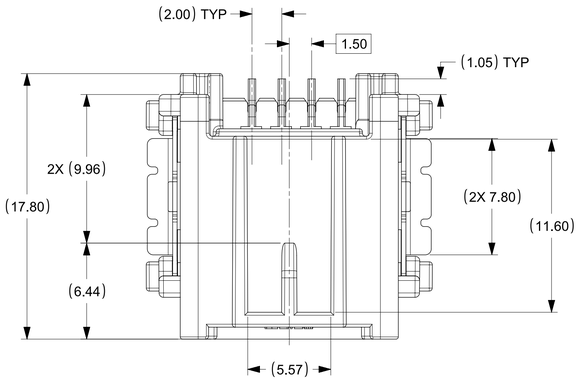
| MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|
| | GENERAL MARKET | 1 OF 5 |

FORMAT TEMPLATE
REVISION: B
DATE: 2025-08-01

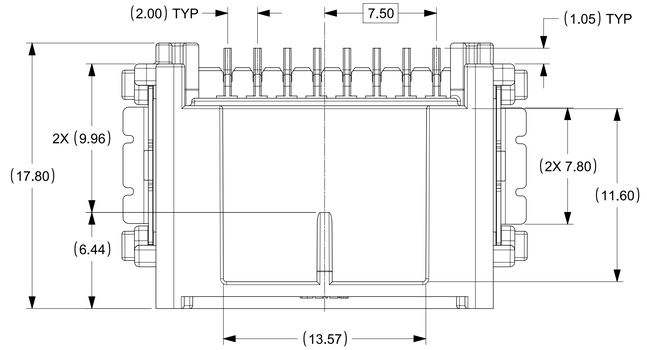
## 2 CKT SMT HEADER



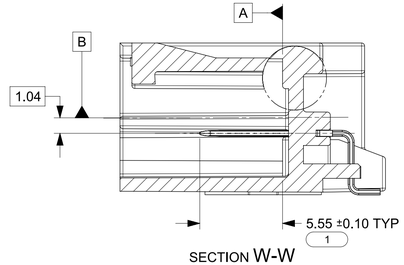

## 4 CKT SMT HEADER




## 8 CKT SMT HEADER

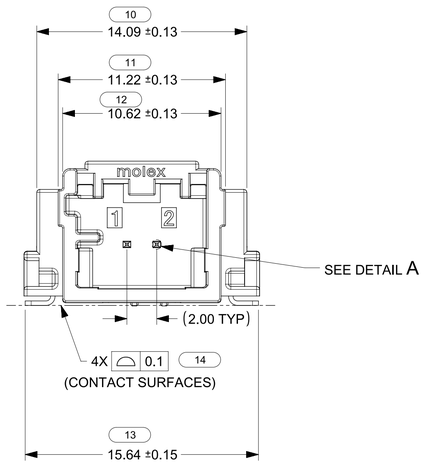


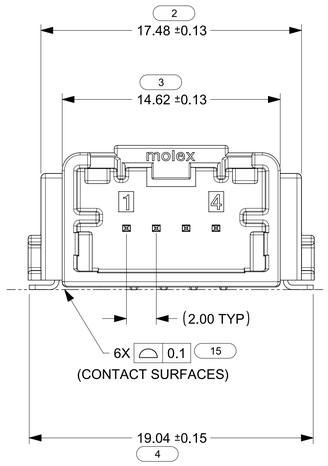

## HEADER TO PCB FLUSH MOUNT

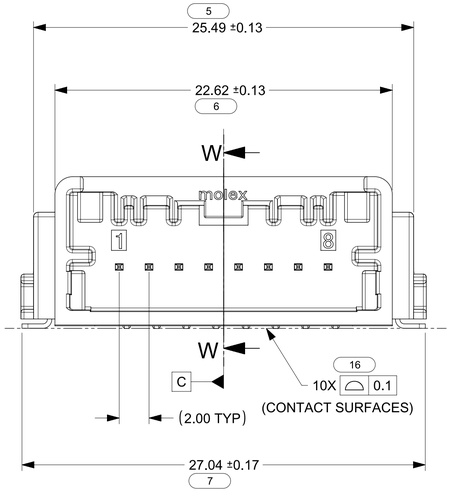


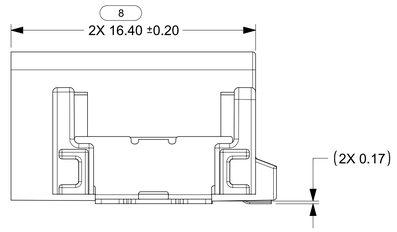

SECTION W-W

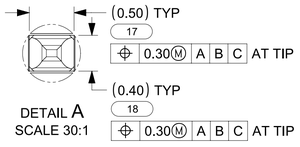
NOTE: SIDE VIEW IS SIMILAR FOR ALL CKTS ON THIS DRAWING




DETAIL A
SCALE 30:1

| | | | |
|---|---|---|---|
| FUNCTIONAL SYMBOLS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | |
| EA = 0 | DIMENSION UNITS: MM | SCALE: 5:1 | CURRENT REV DESC: REFER TO REVISION COLUMN |
| EC = 0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | |
| EP = 0 | ANGULAR TOL ± 1° | | |
| DIVISIONAL SYMBOLS | 4 PLACES ± | | |
| | 3 PLACES ± | | |
| | 2 PLACES ± 0.100 | | |
| | 1 PLACE ± 0.20 | | |
| | 0 PLACES ± | | |
| | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | |

STATUS: Production
DRWN: Leo Li 2025-06-30
CHK'D: Leo Li 2025-08-20
APPR: Wolffian Wang 2025-08-21

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 34912

molex

MINI50 2-8CKT SMT HDR SALES DWG

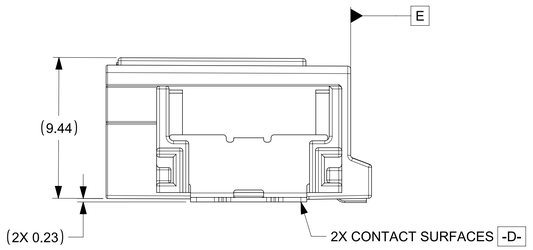
PRODUCT CUSTOMER DRAWING

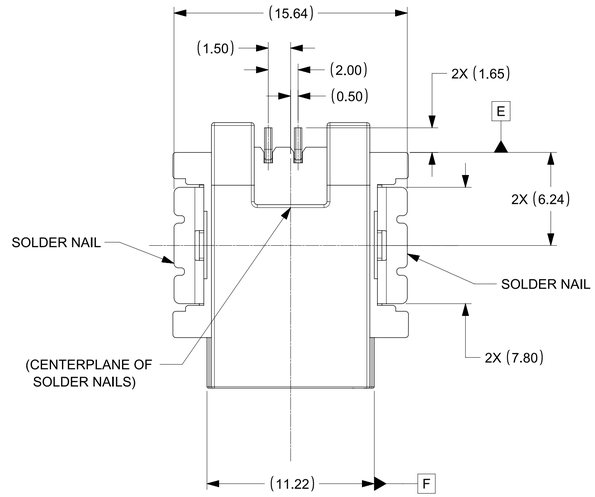
| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| SD-34912-001 | PSD | 000 | M9 |

MATERIAL NUMBER | CUSTOMER: GENERAL MARKET | SHEET NUMBER: 2 OF 5

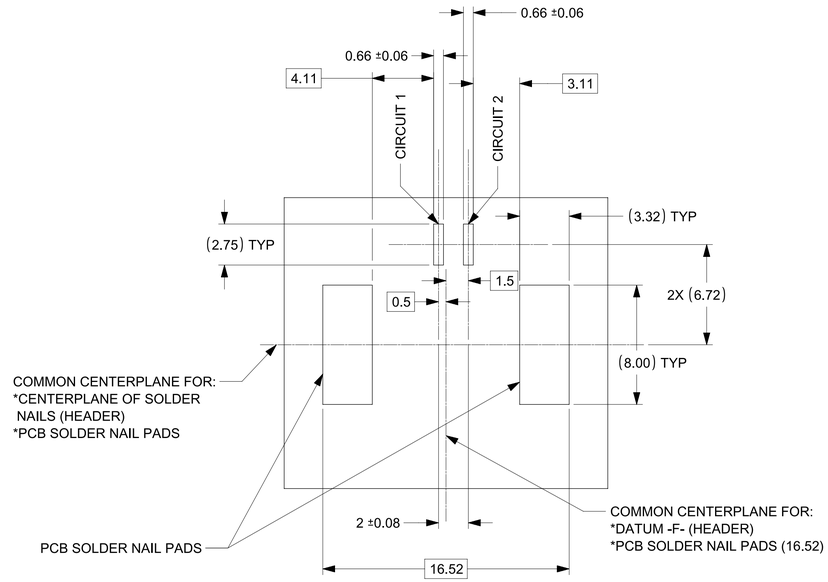
# RECOMMENDED PCB LAYOUT:

## 2 WAY:




2 WAY (BOTTOM VIEW)

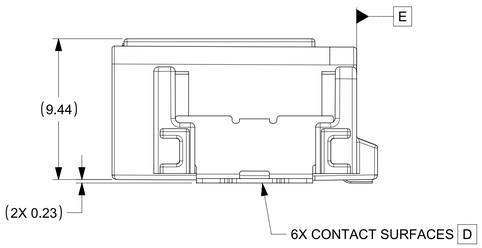


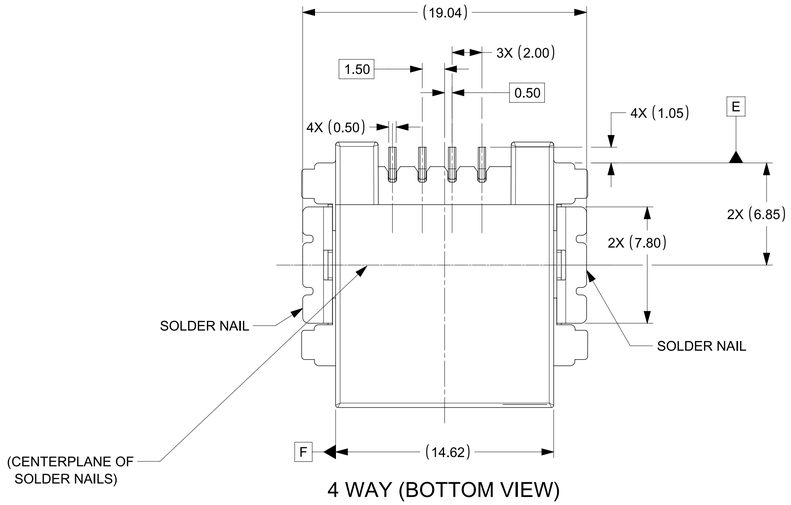

PCB LAYOUT

| | | | | |
|---|---|---|---|---|
| FUNCTIONAL SYMBOLS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | |
| FA = 0 | DIMENSION UNITS: MM | SCALE: 5:1 | CURRENT REV DESC: REFER TO REVISION COLUMN | molex |
| FC = 0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | | MINI50 2-8CKT SMT HDR SALES DWG |
| FE = 0 | ANGULAR TOL ± 1° | | | PRODUCT CUSTOMER DRAWING |
| | 4 PLACES ± | | STATUS: Production | DOCUMENT NUMBER: SD-34912-001 / DOC TYPE: PSD / DOC PART: 000 / REVISION: M9 |
| DIVISIONAL SYMBOLS | 3 PLACES ± | | DRWN: Leo Li 2025-06-30 | |
| | 2 PLACES ± 0.100 | | CHK'D: Leo Li 2025-08-20 | |
| | 1 PLACE ± 0.20 | | APPR: Wolffian Wang 2025-08-21 | |
| | 0 PLACES ± | | THIRD ANGLE PROJECTION / DRAWING: D-SIZE / SERIES: 34912 | MATERIAL NUMBER / CUSTOMER: GENERAL MARKET / SHEET NUMBER: 3 OF 5 |
| | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | | |

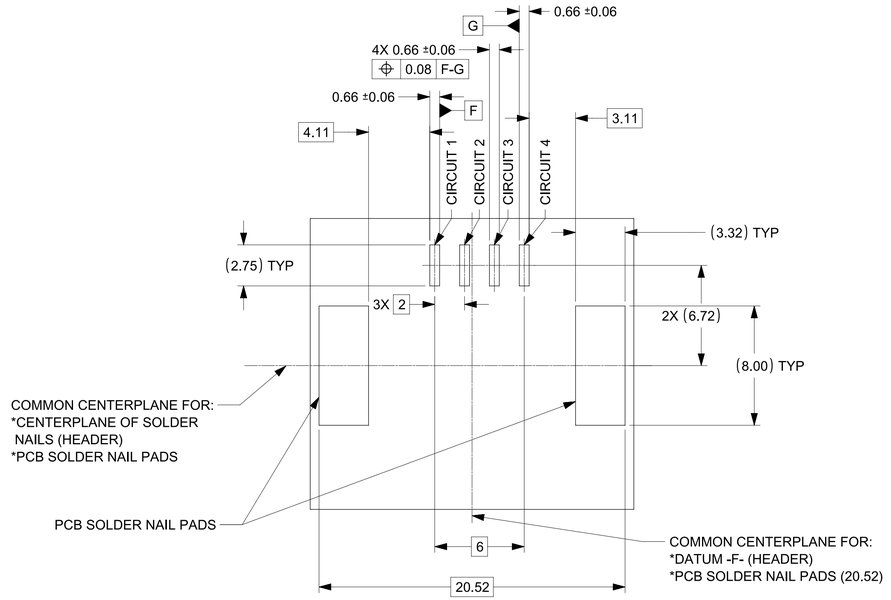
# RECOMMENDED PCB LAYOUT:

## 4 WAY:

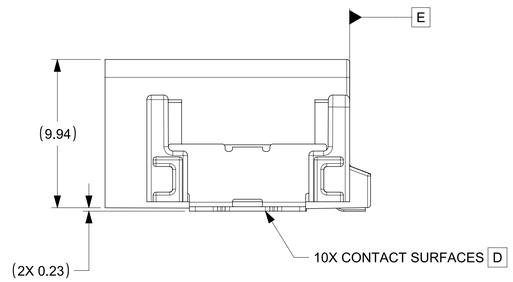


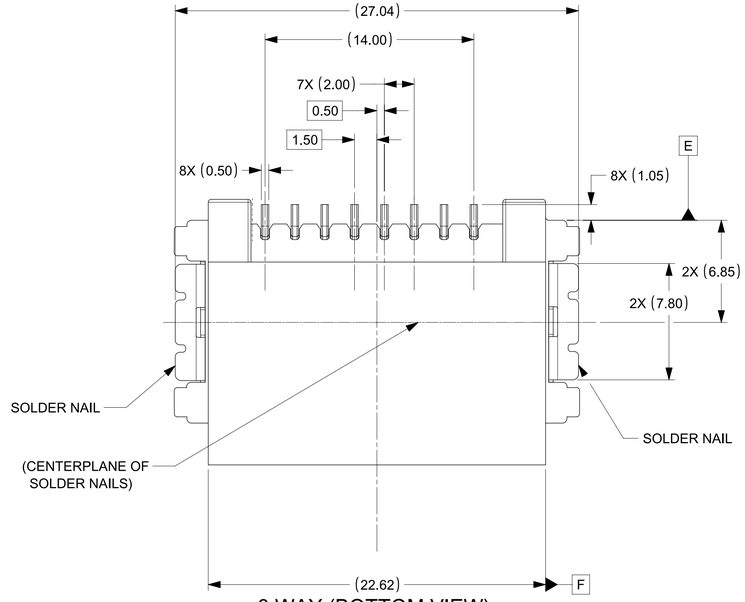




4 WAY (BOTTOM VIEW)

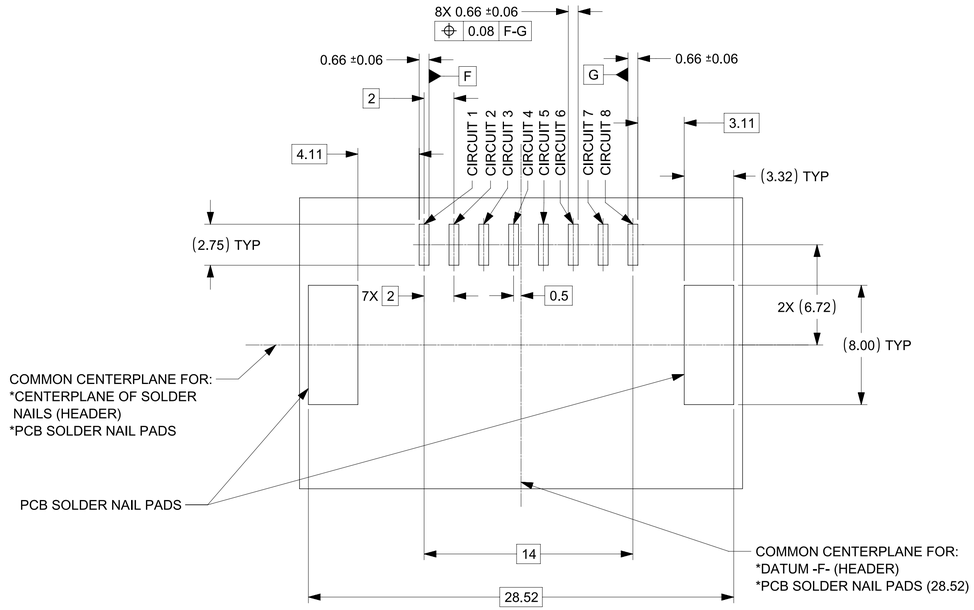



## 8 WAY:




8 WAY (BOTTOM VIEW)




| | | | |
|---|---|---|---|
| FUNCTIONAL SYMBOLS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | |
| FA = 0 | DIMENSION UNITS: MM | SCALE: 5:1 | CURRENT REV DESC: REFER TO REVISION COLUMN |
| FC = 0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | |
| FP = 0 | ANGULAR TOL ± 1° | | |
| DIVISIONAL SYMBOLS | 4 PLACES ± | | |
| | 3 PLACES ± | | |
| | 2 PLACES ± 0.100 | | |
| | 1 PLACE ± 0.20 | | |
| | 0 PLACES ± | | |
| | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | |

STATUS: Production
DRWN: Leo Li 2025-06-30
CHK'D: Leo Li 2025-08-20
APPR: Wolffian Wang 2025-08-21

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 34912

molex

MINI50 2-8CKT SMT HDR SALES DWG

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| SD-34912-001 | PSD | 000 | M9 |

MATERIAL NUMBER | CUSTOMER: GENERAL MARKET | SHEET NUMBER: 4 OF 5

# MINI 50 SMT SINGLE ROW ASSEMBLIES

## GOLD:

| MATERIAL NUMBER TUBE PACKAGING PK-31301-688 | MATERIAL NUMBER TAPE & REEL PACKAGING PK-31301-786 | FLAMMABILITY | CIRCUIT | POL | COLOR | BLADE PLATING | MATING COMPONENT | | | STATUS | VOIDED CIRCUITS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | UN-BRIDGED | BRIDGED | W/CPA | | |
| N/A | 34912-6020 | HB | 2 | A | BLACK | GOLD | N/A | 34791-0020 | N/A | SALEABLE | N/A |
| N/A | 34912-6021 | HB | 2 | B | GREY | GOLD | N/A | 34791-0021 | N/A | SALEABLE | |
| N/A | 34912-6022 | HB | 2 | C | DARK GRAY | GOLD | N/A | 34791-0022 | N/A | SALEABLE | |
| N/A | 34912-6023 | HB | 2 | D | GREEN | GOLD | N/A | 34791-0023 | N/A | SALEABLE | |
| 34912-7040 | 34912-6040 | HB | 4 | A | BLACK | GOLD | 34791-0040 | 34791-0140 | 34791-5140 | SALEABLE | N/A |
| M9 N/A | 34912-6044 | HB | 4 | A | BLACK | GOLD | 34791-0040 | 34791-0140 | 34791-5140 | OKTT | 2, 3 |
| 34912-7041 | 34912-6041 | HB | 4 | B | GREY | GOLD | 34791-0041 | 34791-0141 | 34791-5141 | SALEABLE | N/A |
| 34912-7042 | 34912-6042 | HB | 4 | C | DARK GRAY | GOLD | 34791-0042 | 34791-0142 | 34791-5142 | SALEABLE | |
| 34912-7043 | 34912-6043 | HB | 4 | D | GREEN | GOLD | 34791-0043 | 34791-0143 | 34791-5143 | SALEABLE | |
| 34912-7080 | 34912-6080 | HB | 8 | A | BLACK | GOLD | 34791-0080 | 34791-0180 | 34791-5180 | SALEABLE | N/A |
| 34912-7081 | 34912-6081 | HB | 8 | B | GREY | GOLD | 34791-0081 | 34791-0181 | 34791-5181 | SALEABLE | |
| M8 34912-7082 | 34912-6082 | HB | 8 | C | DARK GRAY | GOLD | 34791-0082 | 34791-0182 | 34791-5182 | SALEABLE | |
| M8 2154227080 | 2154226080 | V0 | 8 | A | BLACK | GOLD | 34791-0080 | 34791-0180 | 34791-5180 | SALEABLE | N/A |
| M8 2154227081 | 2154226081 | V0 | 8 | B | GREY | GOLD | 34791-0081 | 34791-0181 | 34791-5181 | SALEABLE | |
| 2154227080 | 2154226082 | V0 | 8 | C | DARK GRAY | GOLD | 34791-0082 | 34791-0182 | 34791-5182 | SALEABLE | |

## TIN:

| MATERIAL NUMBER TUBE PACKAGING PK-31301-688 | MATERIAL NUMBER TAPE AND REEL PACKAGING PK-31301-786 | FLAMMABILITY | CIRCUIT | POL | COLOR | BLADE PLATING | MATING COMPONENT | | | STATUS |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | UN-BRIDGED | BRIDGED | W/CPA | |
| 34912-9020 | 34912-8020 | HB | 2 | A | BLACK | TIN OVER NICKEL | N/A | 34791-0020 | N/A | SALEABLE |
| 34912-9021 | 34912-8021 | HB | 2 | B | GREY | TIN OVER NICKEL | N/A | 34791-0021 | N/A | SALEABLE |
| 34912-9022 | 34912-8022 | HB | 2 | C | DARK GRAY | TIN OVER NICKEL | N/A | 34791-0022 | N/A | SALEABLE |
| 34912-9023 | 34912-8023 | HB | 2 | D | GREEN | TIN OVER NICKEL | N/A | 34791-0023 | N/A | SALEABLE |
| 34912-9040 | 34912-8040 | HB | 4 | A | BLACK | TIN OVER NICKEL | 34791-0040 | 34791-0140 | 34791-5140 | SALEABLE |
| 34912-9041 | 34912-8041 | HB | 4 | B | GREY | TIN OVER NICKEL | 34791-0041 | 34791-0141 | 34791-5141 | SALEABLE |
| 34912-9042 | 34912-8042 | HB | 4 | C | DARK GRAY | TIN OVER NICKEL | 34791-0042 | 34791-0142 | 34791-5142 | SALEABLE |
| 34912-9043 | 34912-8043 | HB | 4 | D | GREEN | TIN OVER NICKEL | 34791-0043 | 34791-0143 | 34791-5143 | SALEABLE |
| 34912-9080 | 34912-8080 | HB | 8 | A | BLACK | TIN OVER NICKEL | 34791-0080 | 34791-0180 | 34791-5180 | SALEABLE |
| 34912-9081 | 34912-8081 | HB | 8 | B | GREY | TIN OVER NICKEL | 34791-0081 | 34791-0181 | 34791-5181 | SALEABLE |
| 34912-9082 | 34912-8082 | HB | 8 | C | DARK GRAY | TIN OVER NICKEL | 34791-0082 | 34791-0182 | 34791-5182 | SALEABLE |
| 2154229080 | 2154228080 | V0 | 8 | A | BLACK | TIN OVER NICKEL | 34791-0080 | 34791-0180 | 34791-5180 | SALEABLE |
| 2154229081 | 2154228081 | V0 | 8 | B | GREY | TIN OVER NICKEL | 34791-0081 | 34791-0181 | 34791-5181 | SALEABLE |
| 2154229082 | 2154228082 | V0 | 8 | C | DARK GRAY | TIN OVER NICKEL | 34791-0082 | 34791-0182 | 34791-5182 | SALEABLE |

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

FUNCTIONAL SYMBOLS
FA = 0
FC = 0
FD = 0
DIVISIONAL SYMBOLS

DIMENSION UNITS: MM
SCALE: 1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | |
|---|---|
| ANGULAR TOL | ± 1° |
| 4 PLACES | ± |
| 3 PLACES | ± |
| 2 PLACES | ± 0.100 |
| 1 PLACE | ± 0.20 |
| 0 PLACES | ± |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REFER TO REVISION COLUMN

STATUS: Production
DRWN: Leo Li 2025-06-30
CHK'D: Leo Li 2025-08-20
APPR: Wolffian Wang 2025-08-21

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 34912

molex

MINI50 2-8CKT SMT HDR SALES DWG

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| SD-34912-001 | PSD | 000 | M9 |

| MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|
| | GENERAL MARKET | 5 OF 5 |

FORMAT TEMPLATE REVISION: B
DATE: 2025/06/01