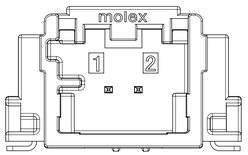
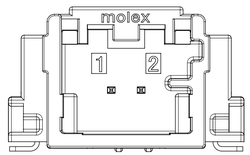
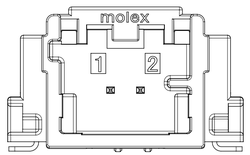


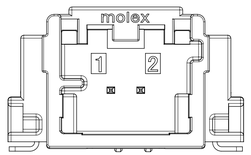
2 CKT SMT HEADER
POLARIZATION OPTION A



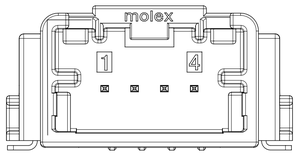
2 CKT SMT HEADER
POLARIZATION OPTION B



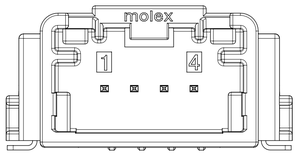
2 CKT SMT HEADER
POLARIZATION OPTION C



2 CKT SMT HEADER
POLARIZATION OPTION D



4 CKT SMT HEADER
POLARIZATION OPTION A



4 CKT SMT HEADER
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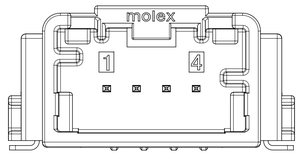
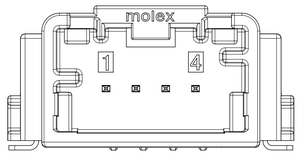
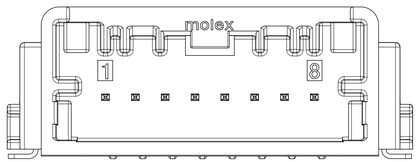


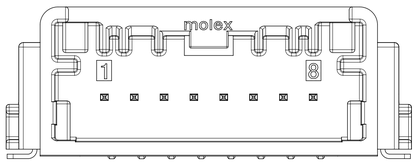
4 CKT SMT HEADER
POLARIZATION OPTION C



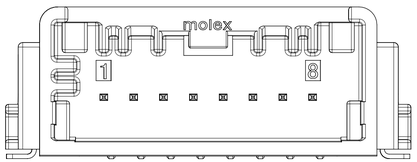
4 CKT SMT HEADER
POLARIZATION OPTION D



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 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

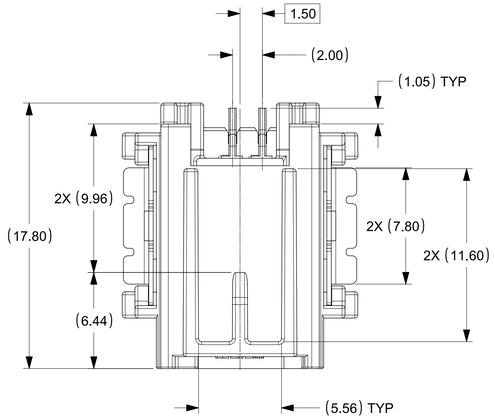
MINI50 2-8CKT SMT HDR SALES DWG

PRODUCT CUSTOMER DRAWING

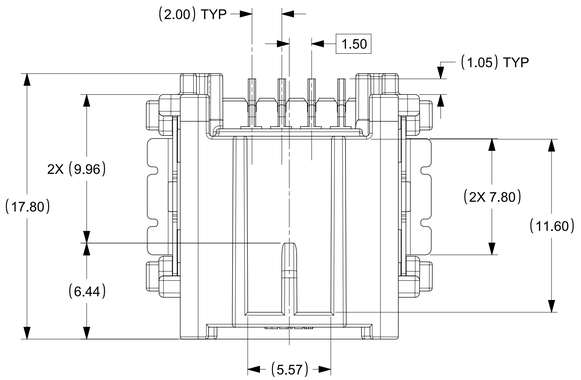
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-34912-001	PSD	000	M9

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	1 OF 5

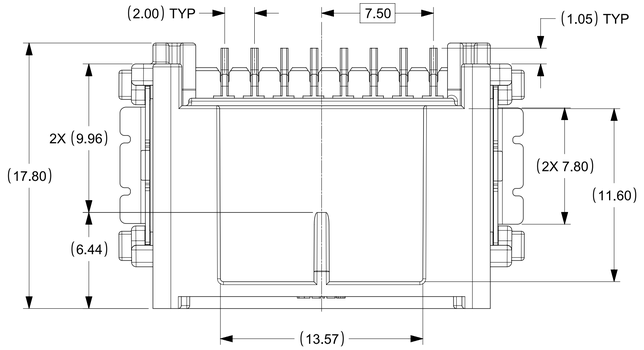
2 CKT SMT HEADER



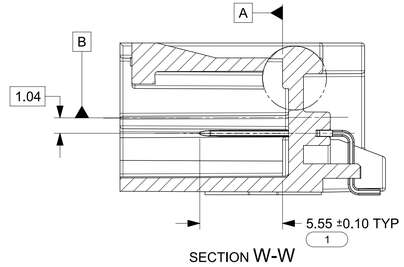
4 CKT SMT HEADER



8 CKT SMT HEADER

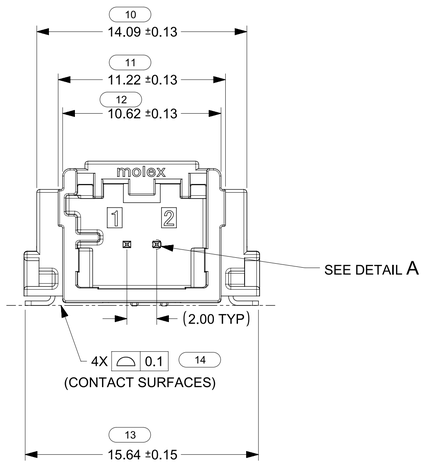


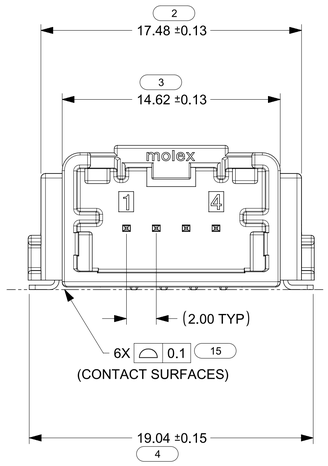
HEADER TO PCB FLUSH MOUNT

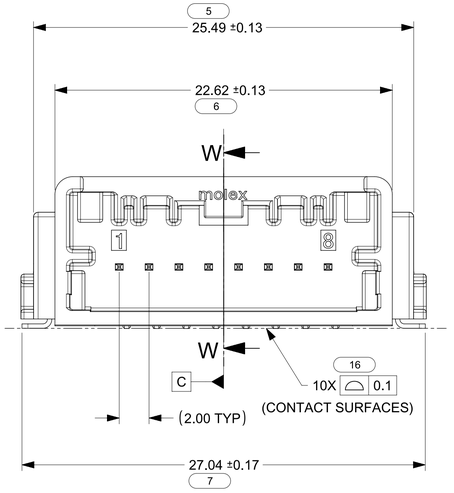


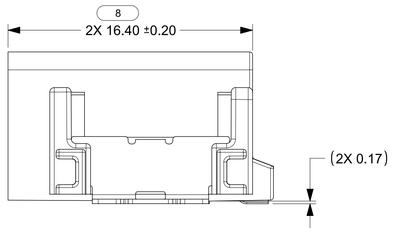
SECTION W-W

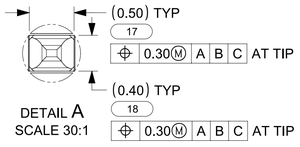
NOTE: SIDE VIEW IS SIMILAR FOR ALL CKTS ON THIS DRAWING











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		
FA = 0	DIMENSION UNITS: MM	SCALE: 5:1	CURRENT REV DESC: REFER TO REVISION COLUMN
FC = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		
FF = 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

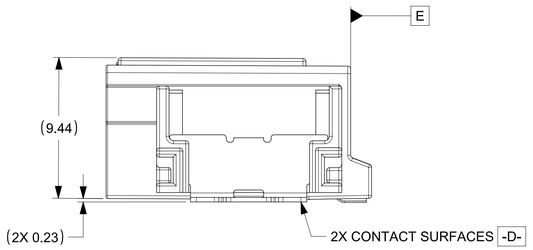
PRODUCT CUSTOMER DRAWING

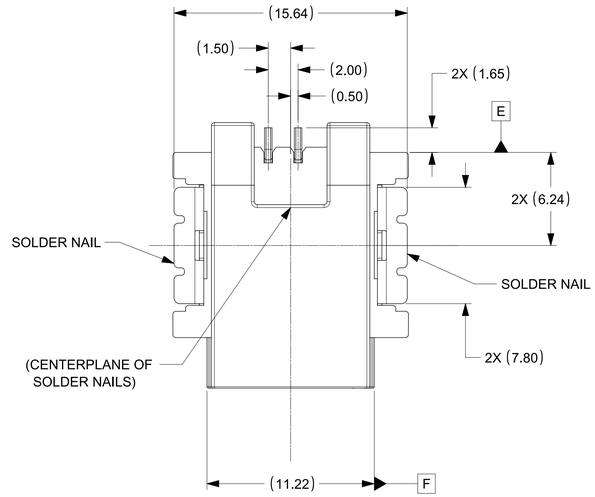
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-34912-001	PSD	000	M9

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

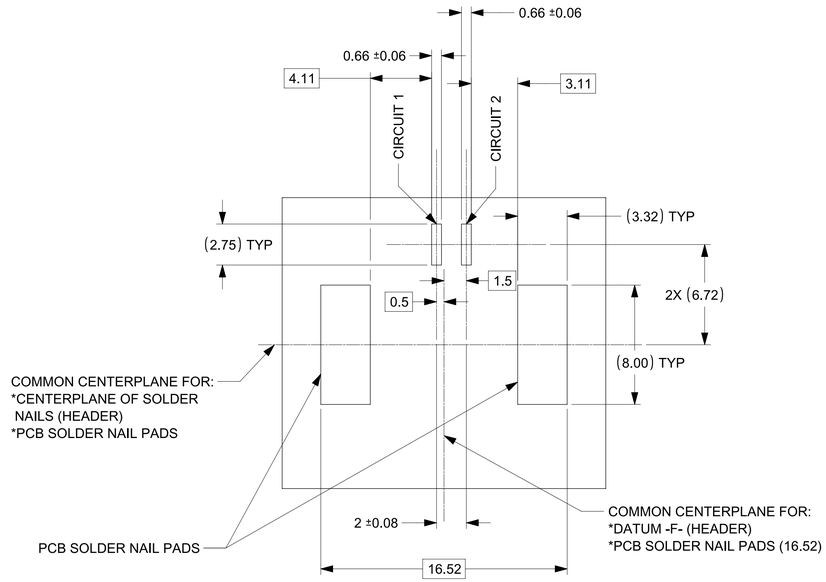
RECOMMENDED PCB LAYOUT:

2 WAY:





2 WAY (BOTTOM VIEW)

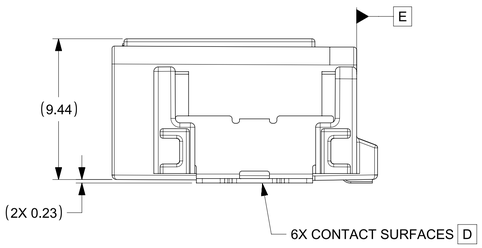


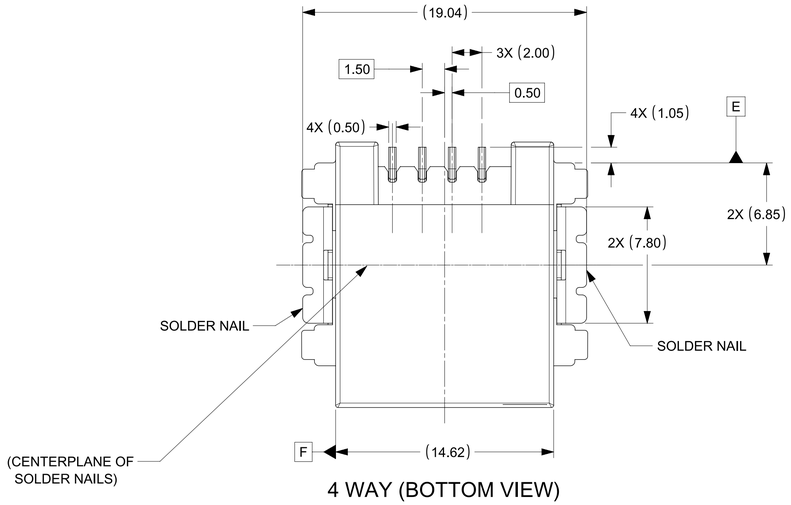
PCB LAYOUT

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			

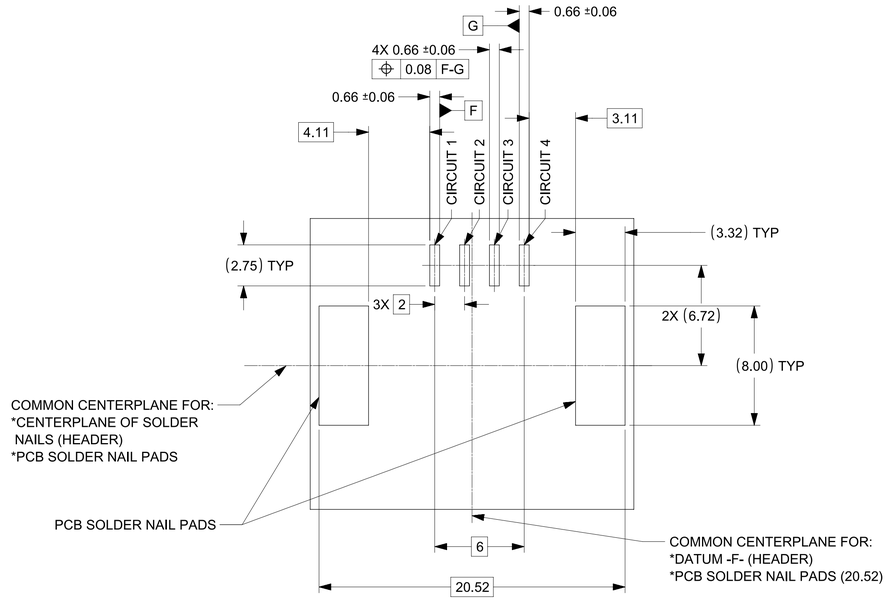
RECOMMENDED PCB LAYOUT:

4 WAY:

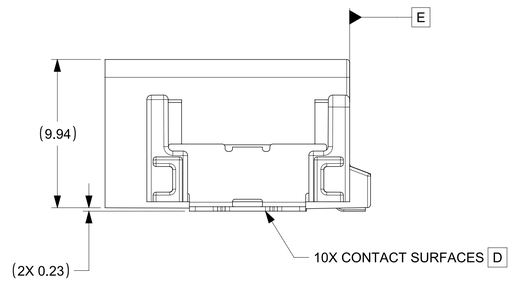


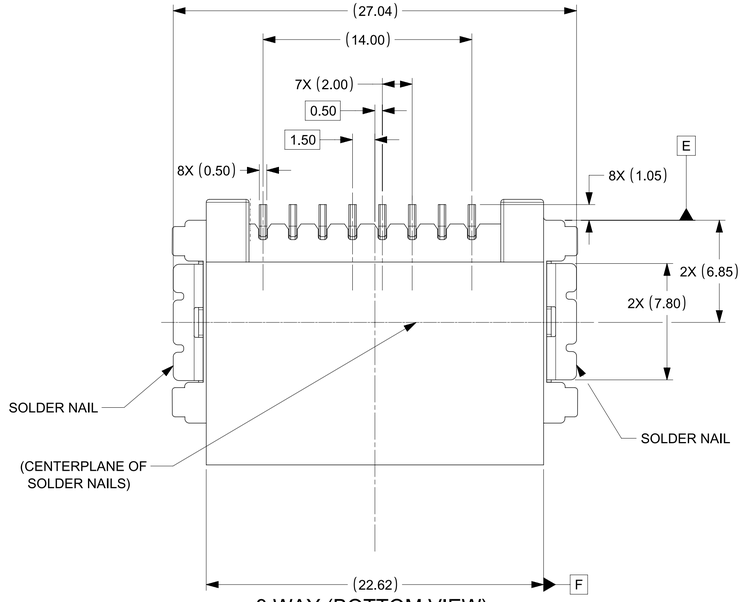


4 WAY (BOTTOM VIEW)

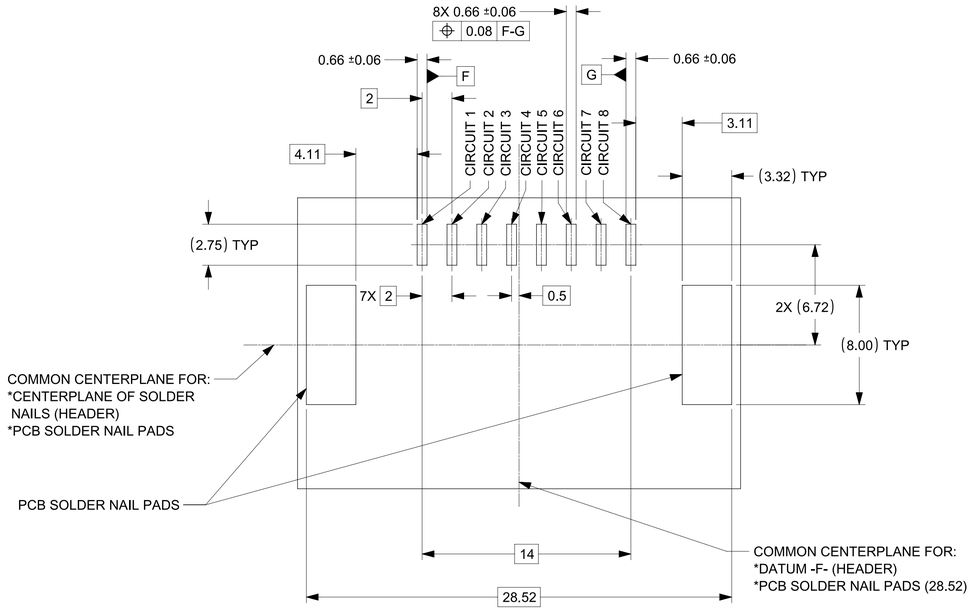


8 WAY:





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
FP = 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

molex

MINI50 2-8CKT SMT HDR SALES DWG

PRODUCT CUSTOMER DRAWING

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

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	D-SIZE	34912		GENERAL MARKET	5 OF 5