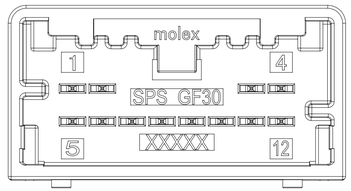

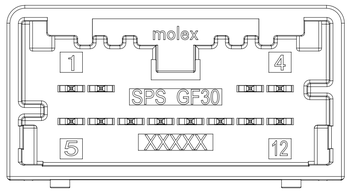

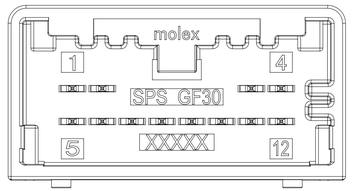

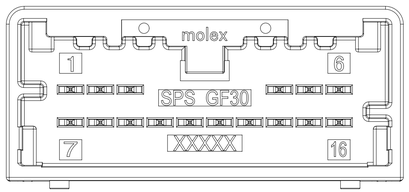

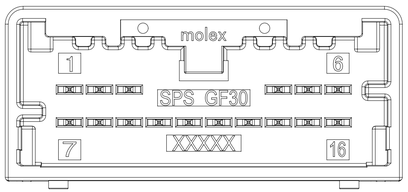

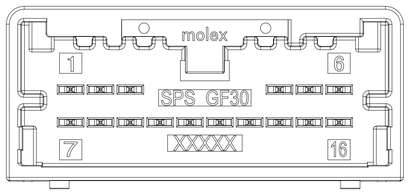

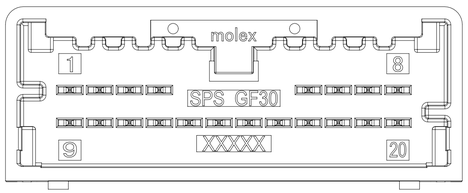

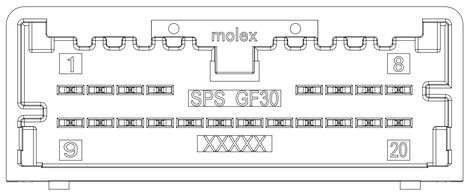

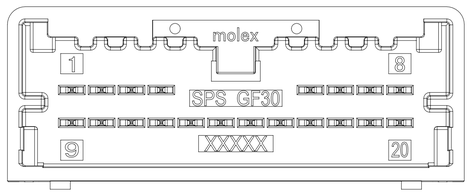

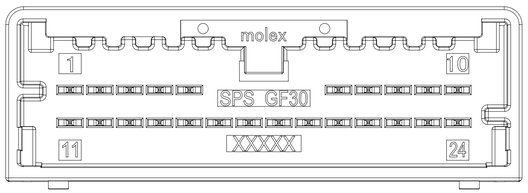

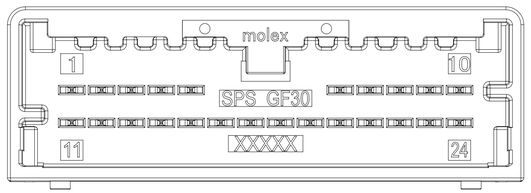

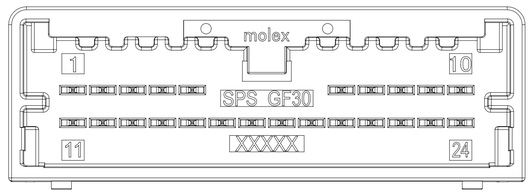

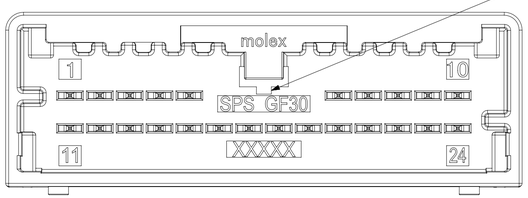

NOTES: VALID UNLESS OTHERWISE SPECIFIED

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
   b. BLADES:
      BASE METAL: C260 BRASS
      PLATING REQUIREMENTS:
      TIN OVER NICKEL:
      UNDERPLATING:
      OVERALL NICKEL
      OVERPLATING:
      OVERALL 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 0.10 MAX RAISED. THIS INCLUDES RECYCLING CODE, PLANT AND CAVITY ID, VENDOR ID, AND CIRCUIT ID.
   g. USCAR INTERFACE:
      12 WAY: 050-U-012-2-ZXX
      16 WAY: 050-U-016-2-ZXX
      20 WAY: 050-U-020-2-ZXX
      24 WAY: 050-U-024-2-ZXX

REV	DESCRIPTION
H6	1. SHEET 1: UPDATED THE MATERIAL DESCRIPTION 2. SHEET 4: ADDED NEW PN 34825-0247/34825-9247/34825-8247 TO BOM TABLE 3. SHEET 4: ADD THE RECEPTACLE TERMINAL DRAWING NUMBER TO NOTES
H5	SHEET 4: CORRECTED 12CKT V0 BOM PNs
H4	REMOVED ONE OF TWO BOM PAGES SHEET 4: BOM STATUS REMOVED - ALL PARTS ARE AVAILABLE ADDED MATING COMPONENT SD INFO
H3	VIEWS UPDATED, NO DIM OR GEOMETRY CHANGES
H2	SHEET 1: ADDED V0 VIEW SHEET 2: ADDED BALLOONS 11A, 12A, 13A, 14A, 15A SHEET 4: REMOVED. MATING COMPONENT PBT PNs 16-24CKT ARE OBSOLETE SHEET 5: ADDED V0 PNs TO BOM TABLE
H1	SHEET 1: ADDED NOTE 3g
H	DRAWING REMASTERED UPDATED VIEWS TO MATCH PRODUCTION CHANGE. NO DIMENSIONAL OR GEOMETRY CHANGES. PAGE 4&5: ADDED P/N 348258207 TO TABLES

INSPECTION BALLON NUMBER LOG
PER DRAWING REVISION: H6

LAST BALLOON USED: 20

ADDED BALLOON NUMBERS: 11A, 12A, 13A, 14A, 15A

REMOVED BALLOON NUMBERS: 1, 2, 3, 4, 5, 6

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

DIMENSION UNITS	SCALE
mm	5:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 0.5°
4 PLACES	±
3 PLACES	±
2 PLACES	±
1 PLACE	±
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REFER TO REVISION CODE

STATUS: Design Approved
DRWN: Gang Li 2023-03-15
CHK'D: Shanks Wu 2023-03-21
APPR: Colin Zhang 2023-03-21

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 34825

molex

MINI50 12-24CKT VERT HDR SALES DRAWING

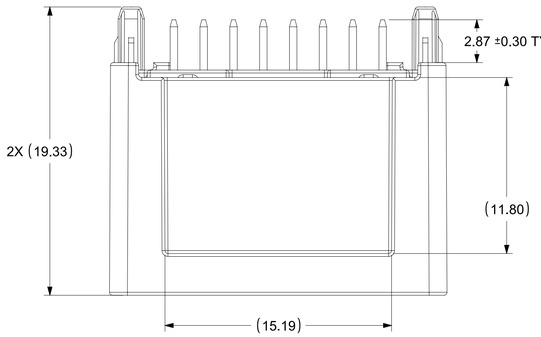
PRODUCT SALES DRAWING

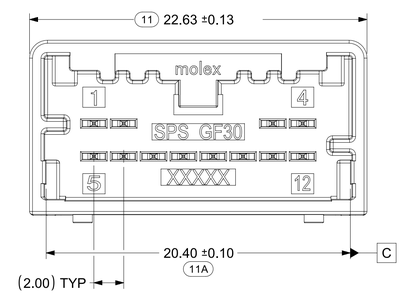
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-34825-001	PSD	001	H6

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	1 OF 4

FORMAT TEMPLATE
REVISION: B
DATE: 2020-06-01

12 CIRCUIT





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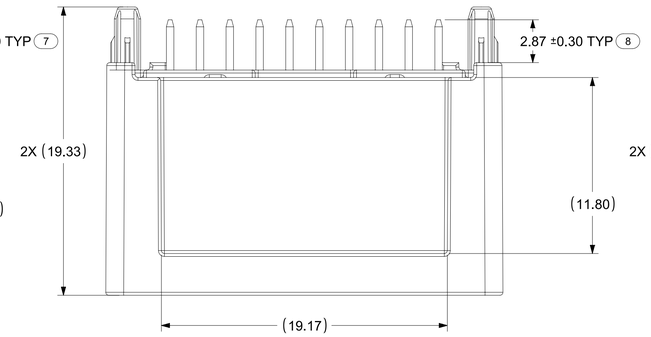

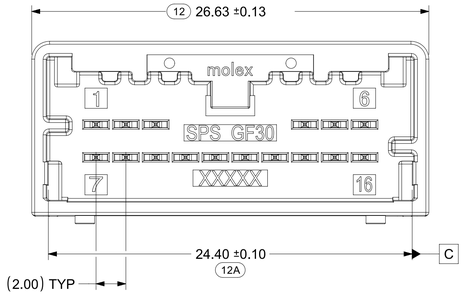

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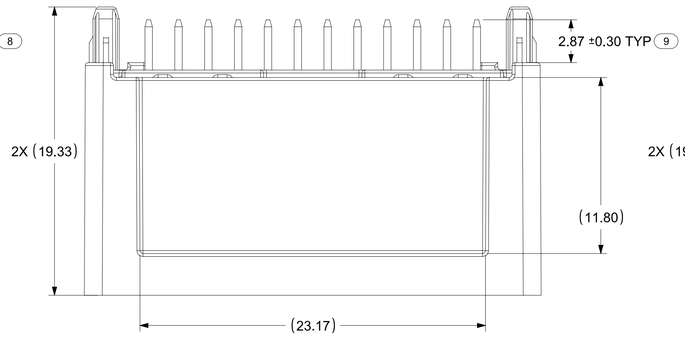

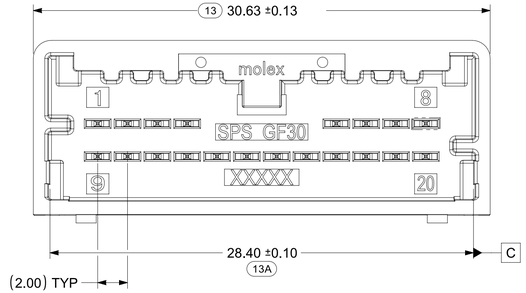

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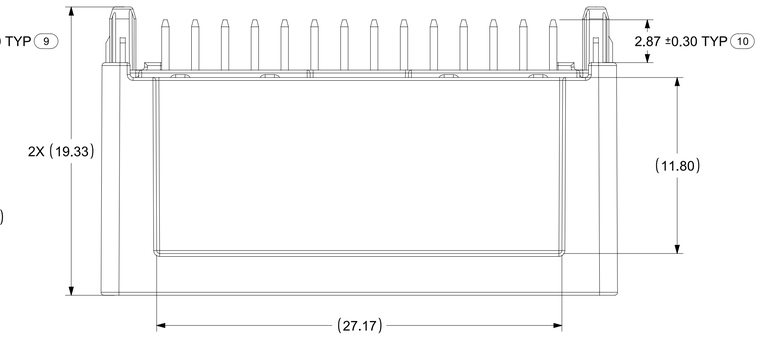
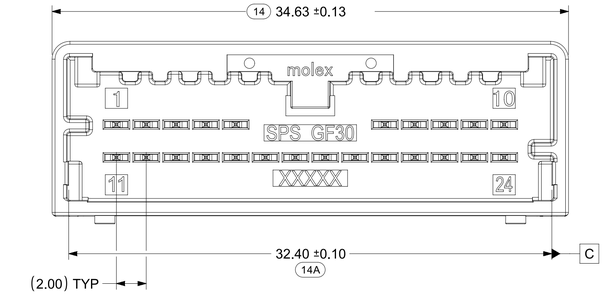
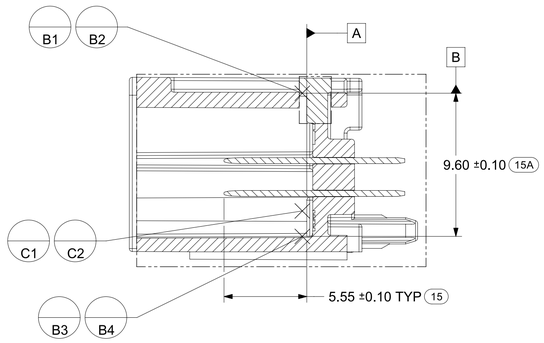
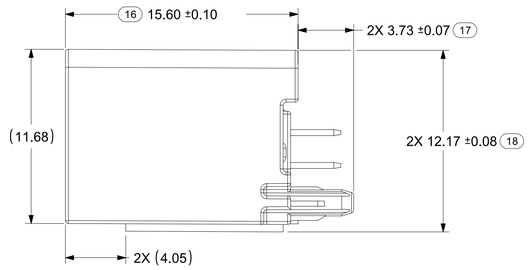
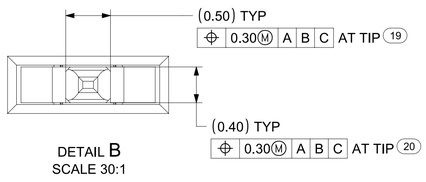










DETAIL B
SCALE 30:1

(18)

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 CODE
FC = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		
FP = 0	ANGULAR TOL ± 0.5°		
DIVISIONAL SYMBOLS	4 PLACES ±		
	3 PLACES ±		
	2 PLACES ±		
	1 PLACE ±		
	0 PLACES ±		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

STATUS: Design Approved
DRWN: Gang Li 2023-03-15
CHK'D: Shanks Wu 2023-03-21
APPR: Colin Zhang 2023-03-21

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 34825

molex

MINI50 12-24CKT VERT HDR SALES DRAWING

PRODUCT SALES DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-34825-001	PSD	001	H6

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	2 OF 4

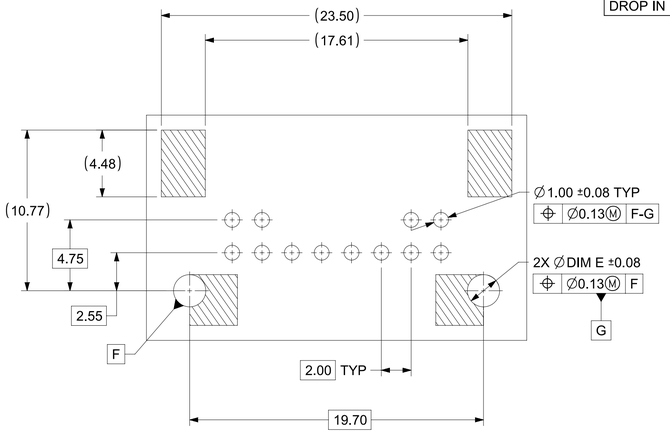
PCB LAYOUT

BOARD SHOWN FOR REFERENCE ONLY

POST HOLE TABLE

	DIM E
PRESS FIT	2.15
DROP IN	2.55

12 CIRCUIT



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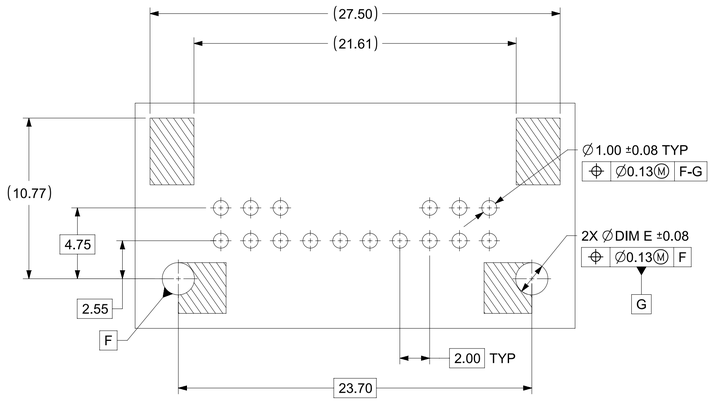

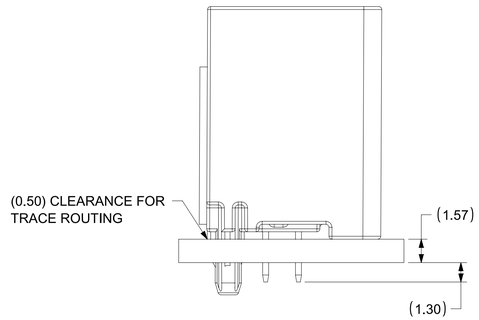

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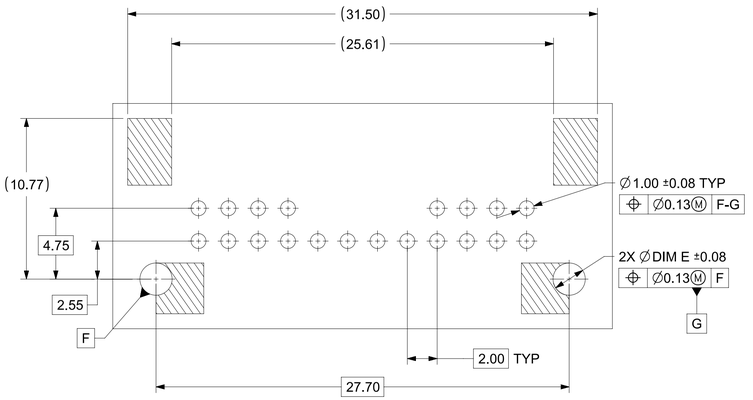

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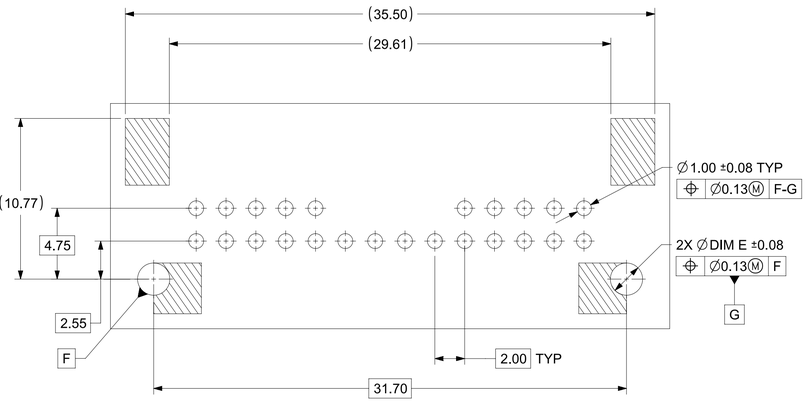

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FUNCTIONAL SYMBOLS	
FA = 0	
FC = 0	
FP = 0	
DIVISIONAL SYMBOLS	
DIMENSION UNITS	mm
SCALE	5:1
GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL	± 0.5°
4 PLACES	±
3 PLACES	±
2 PLACES	±
1 PLACE	±
0 PLACES	±
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

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STATUS: Design Approved

DRWN: Gang Li 2023-03-15

CHK'D: Shanks Wu 2023-03-21

APPR: Colin Zhang 2023-03-21

THIRD ANGLE PROJECTION

DRAWING	SERIES
D-SIZE	34825

molex

MINI50 12-24CKT VERT HDR SALES DRAWING

PRODUCT SALES DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-34825-001	PSD	001	H6

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	3 OF 4

MINI50 VERTICAL HEADER ASSEMBLIES

CIRCUIT	POL	COLOR	MATERIAL NUMBER TAPE AND REEL PACKAGING PK-47799-0001	MATERIAL NUMBER TUBE PACKAGING PK-31301-688	MATERIAL NUMBER TRAY PACKAGING PK-31301-440	BLADE PLATING	FLAMMABILITY	VOIDED CIRCUITS
12	A	BLACK	34825-8124	34825-9124	34825-0124	TIN	HB	N/A
	B	GRAY	34825-8125	34825-9125	34825-0125	TIN		
	C	DARK GRAY	34825-8126	34825-9126	34825-0126	TIN		
16	A	BLACK	34825-8160	34825-9160	34825-0160	TIN	HB	N/A
	B	GRAY	34825-8161	34825-9161	34825-0161	TIN		
	C	DARK GRAY	34825-8162	34825-9162	34825-0162	TIN		
20	A	BLACK	34825-8200	34825-9200	34825-0200	TIN	HB	N/A
	A	BLACK	34825-8207	N/A	N/A	TIN		1, 2, 4, 5, 7, 8, 10-12, 14, 15, 17-19
	B	GRAY	34825-8201	34825-9201	34825-0201	TIN		N/A
	C	DARK GRAY	34825-8202	34825-9202	34825-0202	TIN		N/A
24	A	BLACK	34825-8240	34825-9240	34825-0240	TIN	HB	N/A
	A	BLACK	N/A	N/A	34825-0244	TIN		2, 3, 4, 7, 8, 9, 12, 13, 14, 16, 19, 21, 22, 23
	A	BLACK	34825-8247	34825-9247	34825-0247	TIN		1, 2, 3, 4, 7, 8, 9, 12, 13, 14, 21, 22, 23, 24 (H6)
	B	GRAY	34825-8241	34825-9241	34825-0241	TIN		N/A
	B	GRAY	N/A	N/A	34825-0245	TIN		2, 3, 4, 7, 8, 9, 12, 13, 14, 16,19, 21, 22, 23
	C	DARK GRAY	34825-8242	34825-9242	34825-0242	TIN		N/A
12	A	BLACK	215425-8124	215425-9124	215425-0124	TIN	V0	N/A
	B	GRAY	215425-8125	215425-9125	215425-0125	TIN		
	C	DARK GRAY	215425-8126	215425-9126	215425-0126	TIN		
16	A	BLACK	215425-8160	215425-9160	215425-0160	TIN	V0	N/A
	B	GRAY	215425-8161	215425-9161	215425-0161	TIN		
	C	DARK GRAY	215425-8162	215425-9162	215425-0162	TIN		
20	A	BLACK	215425-8200	215425-9200	215425-0200	TIN	V0	N/A
	B	GRAY	215425-8201	215425-9201	215425-0201	TIN		
	C	DARK GRAY	215425-8202	215425-9202	215425-0202	TIN		
24	A	BLACK	215425-8240	215425-9240	215425-0240	TIN	V0	N/A
	B	GRAY	215425-8241	215425-9241	215425-0241	TIN		
	C	DARK GRAY	215425-8242	215425-9242	215425-0242	TIN		

MATING COMPONENTS

FOR ALL MATING COMPONENT PART NUMBERS SEE THE FOLLOWING SALES DRAWINGS

- GEN I RECEPTACLE ONLY: SD-34824-002
- GEN I RECEPTACLE WITH CPA: SD-34824-003
- GEN II: 2065230000
- RECEPTACLE TERMINAL: 5600230800 (H6)

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DIVISIONAL SYMBOLS

DIMENSION UNITS: mm | SCALE: 1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 0.5°

4 PLACES	±
3 PLACES	±
2 PLACES	±
1 PLACE	±
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REFER TO REVISION CODE

STATUS: Design Approved

DRWN:	Gang Li	2023-03-15
CHK'D:	Shanks Wu	2023-03-21
APPR:	Colin Zhang	2023-03-21

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 34825

molex

MINI50 12-24CKT VERT HDR SALES DRAWING

PRODUCT SALES DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-34825-001	PSD	001	H6

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	4 OF 4