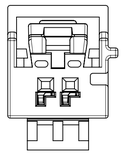
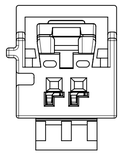
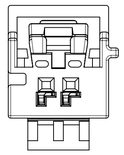


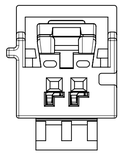
2 CIRCUIT
POLARIZATION A



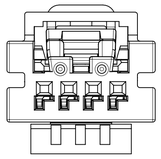
2 CIRCUIT
POLARIZATION B



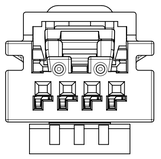
2 CIRCUIT
POLARIZATION C



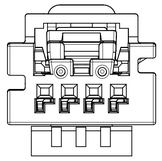
2 CIRCUIT
POLARIZATION D



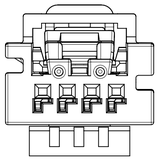
4 CIRCUIT
POLARIZATION A



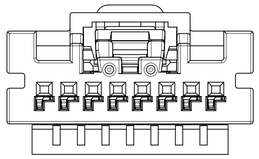
4 CIRCUIT
POLARIZATION B



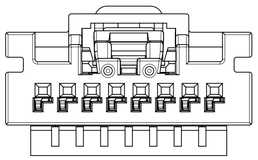
4 CIRCUIT
POLARIZATION C



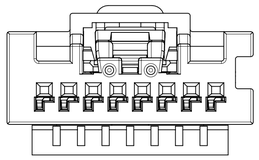
4 CIRCUIT
POLARIZATION D



8 CIRCUIT
POLARIZATION A

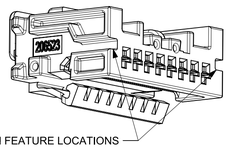


8 CIRCUIT
POLARIZATION B



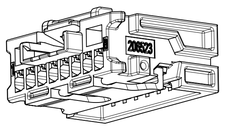
8 CIRCUIT
POLARIZATION C

HINGES OPEN
8 CIRCUIT RECEPTACLE SHOWN
(AS SHIPPED)

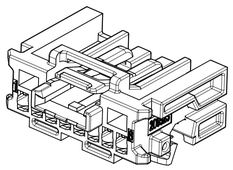


POLARIZATION FEATURE LOCATIONS

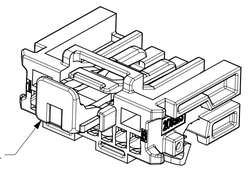
HINGES CLOSED
8 CIRCUIT RECEPTACLE SHOWN
(AS ASSEMBLED)



NON-CPA VERSION



CPA VERSION



CPA

NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:
   a. APPLICATION SPECIFICATION SEE: 2065230000-AS
   b. PRODUCT SPECIFICATION SEE: 2065230000-PS
   c. PACKAGING SPECIFICATION PER MOLEX DRAWING: PK-31301-538
   d. PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: QEHS-699000-301
   e. DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS (COMPANY ID#13255)
   f. FLAMMABILITY REQUIREMENT
      1. UL 94 HB (SERIES NUMBER 206523)

2. DESIGN -
   2.1 RECEPTACLE HOUSING:
      a. MATERIAL: PBT-GF7.5%
      b. COLOR: SEE PART TABLE
   2.2 CPA:
      a. MATERIAL: PA6-GF60%
      b. COLOR: RED

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. EDGES AND UNDIMENSIONED DETAILS PER ISO13175
   d. CORNERS SHOWN AS SHARP TO BE R 0.2 MAX
   e. LETTERING SHALL BE 0.1 MAX RAISED IN 0.15 MAX RECESS PAD AND NOT PROTRUDE THE SURFACE. THIS INCLUDES RECYCLING CODE, PLANT AND CAVITY ID, VENDOR ID, CIRCUIT ID, AND SERIES NUMBER

REV	DESCRIPTION
A	INITIAL RELEASE

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

FUNCTIONAL SYMBOLS: F/A = 0, F/C = 0, F/D = 0

DIVISIONAL SYMBOLS

DIMENSION UNITS	SCALE
MM	NTS

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 COLUMN

STATUS: Production
DRWN: Leo Li 2025-05-30
CHK'D: Ringo Hu 2025-07-10
APPR: wolffw 2025-07-10

THIRD ANGLE PROJECTION

DRAWING: A1-SIZE
SERIES: 206523

molex

MINI50 GEN II 1-ROW RCPT SALES DRAWING
SINGLE ROW

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
2065230005	PSD	000	A1

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE CHART	GENERAL MARKET	1 OF 3

FORMAT TC-Engineer-A7
REVISION: B
DATE: 2022/04/01

MINI50 GEN II RECEPTACLE

MATERIAL NUMBER	ASSEMBLY STATUS	FLAMMABILITY UL94	CONFIGURATION	CIRCUIT	POL	COLOR	NOTE	MATING COMPONENT									
								SURFACE MOUNT TECHNOLOGY (SMT) HEADER-TIN		SURFACE MOUNT TECHNOLOGY (SMT) HEADER-GOLD		VERTICAL THRU HOLE HEADER			RIGHT ANGLE THRU HOLE HEADER		
								TAPE AND REEL PACKAGING PK-31301-786	TUBE PACKAGING PK-31301-688	TAPE AND REEL PACKAGING PK-31301-786	TUBE PACKAGING PK-31301-688	TRAY PACKAGING PK-31301-440	TUBE PACKAGING PK-31301-688	TAPE AND REEL PACKAGING PK-47799-0001	TRAY PACKAGING PK-31301-440	TUBE PACKAGING PK-31301-688	TAPE AND REEL PACKAGING PK-47799-0001
2065230021	HOUSING ONLY	HB	USCAR COMPATIBLE	2	A	BLACK	AVAILABLE	34912-8020	34912-9020	34912-6020	34912-5020	N/A	N/A	N/A	N/A	N/A	N/A
2065230022	HOUSING ONLY	HB	USCAR COMPATIBLE	2	B	GRAY	AVAILABLE	34912-8021	34912-9021	34912-6021	34912-5021	N/A	N/A	N/A	N/A	N/A	N/A
2065230023	HOUSING ONLY	HB	USCAR COMPATIBLE	2	C	DARK GRAY	AVAILABLE	34912-8022	34912-9022	34912-6022	34912-5022	N/A	N/A	N/A	N/A	N/A	N/A
2065230024	HOUSING ONLY	HB	USCAR COMPATIBLE	2	D	GREEN	AVAILABLE	34912-8023	34912-9023	34912-6023	34912-5023	N/A	N/A	N/A	N/A	N/A	N/A
2065230041	HOUSING ONLY	HB	USCAR COMPATIBLE	4	A	BLACK	AVAILABLE	34912-8040	34912-9040	34912-6040	34912-5040	34792-0040	34792-9040	34792-8040	34793-0040	34793-9040	34793-8040
2065230042	HOUSING ONLY	HB	USCAR COMPATIBLE	4	B	GRAY	AVAILABLE	34912-8041	34912-9041	34912-6041	34912-5041	34792-0041	34792-9041	34792-8041	34793-0041	34793-9041	34793-8041
2065230043	HOUSING ONLY	HB	USCAR COMPATIBLE	4	C	DARK GRAY	AVAILABLE	34912-8042	34912-9042	34912-6042	34912-5042	34792-0042	34792-9042	34792-8042	34793-0042	34793-9042	34793-8042
2065230044	HOUSING ONLY	HB	USCAR COMPATIBLE	4	D	GREEN	AVAILABLE	34912-8043	34912-9043	34912-6043	34912-5043	34792-0043	34792-9043	34792-8043	34793-0043	34793-9043	34793-8043
2065230081	HOUSING ONLY	HB	USCAR COMPATIBLE	8	A	BLACK	AVAILABLE	34912-8080	34912-9080	34912-6080	34912-5080	34792-0080	34792-9080	34792-8080	34793-0080	34793-9080	34793-8080
2065230082	HOUSING ONLY	HB	USCAR COMPATIBLE	8	B	GRAY	AVAILABLE	34912-8081	34912-9081	34912-6081	34912-5081	34792-0081	34792-9081	34792-8081	34793-0081	34793-9081	34793-8081
2065230083	HOUSING ONLY	HB	USCAR COMPATIBLE	8	C	DARK GRAY	AVAILABLE	34912-8082	34912-9082	34912-6082	34912-5082	34792-0082	34792-9082	34792-8082	34793-0082	34793-9082	34793-8082
2065232041	ASSEMBLED WITH CPA	HB	USCAR COMPATIBLE	4	A	BLACK	AVAILABLE	34912-8040	34912-9040	34912-6040	34912-5040	34792-0040	34792-9040	34792-8040	34793-0040	34793-9040	34793-8040
2065232042	ASSEMBLED WITH CPA	HB	USCAR COMPATIBLE	4	B	GRAY	AVAILABLE	34912-8041	34912-9041	34912-6041	34912-5041	34792-0041	34792-9041	34792-8041	34793-0041	34793-9041	34793-8041
2065232043	ASSEMBLED WITH CPA	HB	USCAR COMPATIBLE	4	C	DARK GRAY	AVAILABLE	34912-8042	34912-9042	34912-6042	34912-5042	34792-0042	34792-9042	34792-8042	34793-0042	34793-9042	34793-8042
2065232044	ASSEMBLED WITH CPA	HB	USCAR COMPATIBLE	4	D	GREEN	AVAILABLE	34912-8043	34912-9043	34912-6043	34912-5043	34792-0043	34792-9043	34792-8043	34793-0043	34793-9043	34793-8043
2065232081	ASSEMBLED WITH CPA	HB	USCAR COMPATIBLE	8	A	BLACK	AVAILABLE	34912-8080	34912-9080	34912-6080	34912-5080	34792-0080	34792-9080	34792-8080	34793-0080	34793-9080	34793-8080
2065232082	ASSEMBLED WITH CPA	HB	USCAR COMPATIBLE	8	B	GRAY	AVAILABLE	34912-8081	34912-9081	34912-6081	34912-5081	34792-0081	34792-9081	34792-8081	34793-0081	34793-9081	34793-8081
2065232083	ASSEMBLED WITH CPA	HB	USCAR COMPATIBLE	8	C	DARK GRAY	AVAILABLE	34912-8082	34912-9082	34912-6082	34912-5082	34792-0082	34792-9082	34792-8082	34793-0082	34793-9082	34793-8082

CTX50 UNSEALED RECEPTACLE TERMINAL

PART NUMBER		MATERIAL	WIRE GAGE (mm^2)	GRIP	STATUS
D-WIND (LEFT PAYOFF)	B-WIND (RIGHT PAYOFF)				
5600230748	5600230750	COPPER ALLOY	0.35	LARGE	SALEABLE
5600230721	5600230723	COPPER ALLOY	0.22	MEDIUM	SALEABLE
5600230744	5600230745	COPPER ALLOY	0.13	SMALL	SALEABLE

FUNCTIONAL SYMBOLS
FA = 0
FC = 0
FD = 0

DIVISIONAL SYMBOLS

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DIMENSION UNITS	SCALE
MM	NTS

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 COLUMN

STATUS: Production
DRWN: Leo Li 2025-05-30
CHK'D: Ringo Hu 2025-07-10
APPR: wolffw 2025-07-10

THIRD ANGLE PROJECTION

molex

MINI50 GEN II 1-ROW RCPT SALES DRAWING
SINGLE ROW

PRODUCT CUSTOMER DRAWING

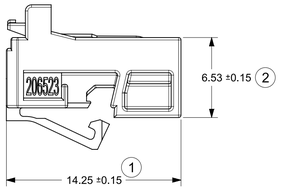
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
2065230005	PSD	000	A1

DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
A1-SIZE	206523	SEE CHART	GENERAL MARKET	2 OF 3

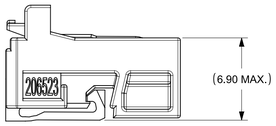
2 CIRCUIT RECEPTACLE

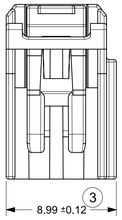
ONLY NON-CPA VERSION

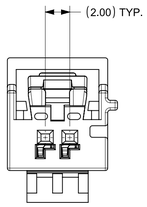
SIDE VIEW



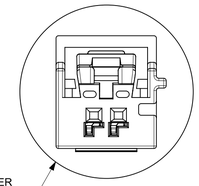
HINGE CLOSED







HINGE CLOSED
(CPA / NON-CPA)

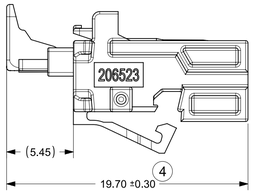


PASS THRU DIAMETER
∅14.15
1mm ADDITIONAL CLEARANCE
ADDED TO TIGHTEST FIT CIRCLE

4 CIRCUIT RECEPTACLE

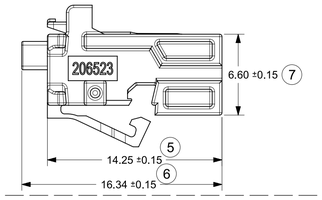
DIMENSION IN THIS VIEW APPLY FOR CPA VERSION ONLY
REFERRING TO THE FOLLOWING P/Ns: 2065232041/2042/2043/2044

CPA VERSION
SIDE VIEW



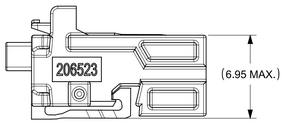
DIMENSIONS IN THIS VIEW ARE SHARED BOTH CPA AND NON-CPA VERSION

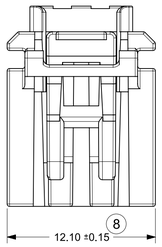
NON CPA VERSION
SIDE VIEW



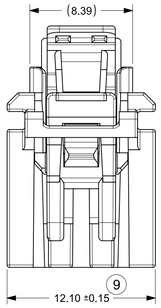
NON - CPA VERSION

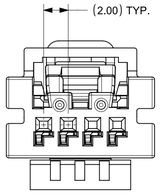
HINGE CLOSED



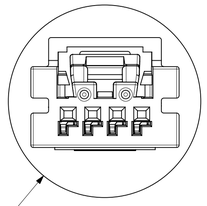


CPA VERSION





HINGE CLOSED
(CPA / NON-CPA)

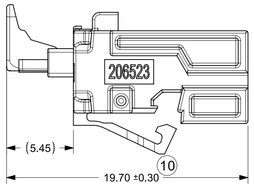


PASS THRU DIAMETER
∅15.76
1mm ADDITIONAL CLEARANCE
ADDED TO TIGHTEST FIT CIRCLE

8 CIRCUIT RECEPTACLE

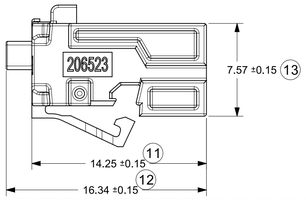
DIMENSION IN THIS VIEW APPLY FOR CPA VERSION ONLY
REFERRING TO THE FOLLOWING P/Ns: 2065232081/2082/2083

CPA VERSION
SIDE VIEW



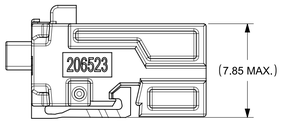
DIMENSIONS IN THIS VIEW ARE SHARED BOTH CPA AND NON-CPA VERSION

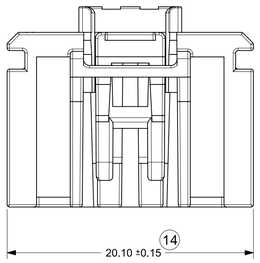
NON CPA VERSION
SIDE VIEW



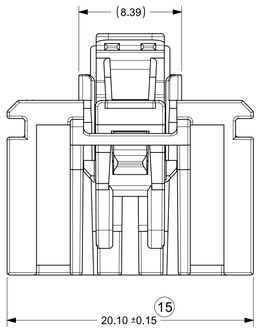
NON - CPA VERSION

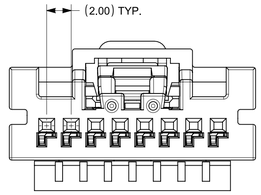
HINGE CLOSED



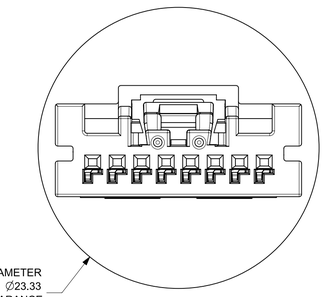


CPA VERSION



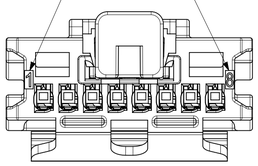


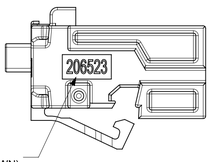
HINGE CLOSED
(CPA / NON-CPA)



PASS THRU DIAMETER
∅23.33
1mm ADDITIONAL CLEARANCE
ADDED TO TIGHTEST FIT CIRCLE

8 CKT RECEPTACLE SHOWN BELOW
2 AND 4 CKT RECEPTACLE
HAS SIMILAR CIRCUIT ID LOCATION
CIRCUIT ID

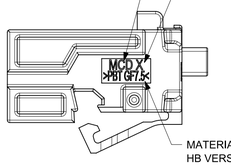




PART SERIES NUMBER
(HB VERSION SERIES NUMBER AS SHOWN)

MANUFACTURING PLANT

TOOL CAVITY ID



MATERIAL RECYCLING CODE
HB VERSION AS SHOWN

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: NTS	CURRENT REV DESC: REFER TO REVISION COLUMN	molex
FC = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)			MINI50 GEN II 1-ROW RCPT SALES DRAWING SINGLE ROW
FP = 0	ANGULAR TOL ± 0.5°			
DIVISIONAL SYMBOLS	4 PLACES ±			PRODUCT CUSTOMER DRAWING
	3 PLACES ±		STATUS: Production	
	2 PLACES ±		DRWN: Leo Li 2025-05-30	DOCUMENT NUMBER: 2065230005 / DOC TYPE: PSD / DOC PART: 000 / REVISION: A1
	1 PLACE ±		CHK'D: Ringo Hu 2025-07-10	
	0 PLACES ±		APPR: wolffw 2025-07-10	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING: A1-SIZE / SERIES: 206523 / MATERIAL NUMBER: SEE CHART / CUSTOMER: GENERAL MARKET / SHEET NUMBER: 3 OF 3

FORMAT TC-Engineer-A1
REVISION: B
DATE: 2022/04/01