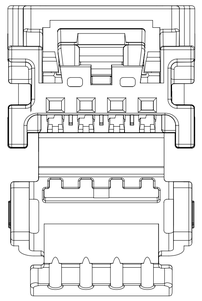
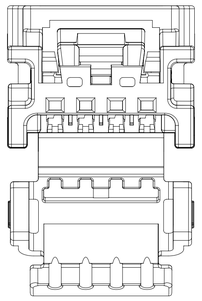
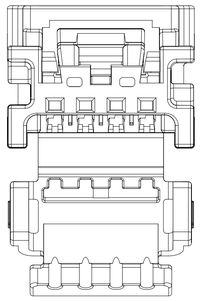


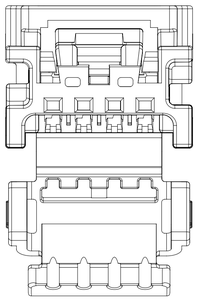
4 CKT BRIDGED RECEPTACLE W/CPA
POLARIZATION OPTION A



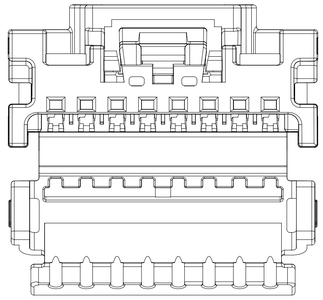
4 CKT BRIDGED RECEPTACLE W/CPA
POLARIZATION OPTION B



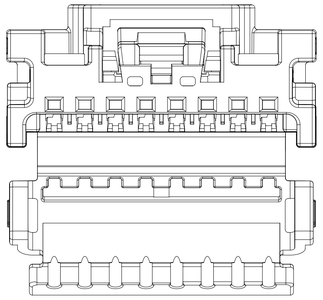
4 CKT BRIDGED RECEPTACLE W/CPA
POLARIZATION OPTION C



4 CKT BRIDGED RECEPTACLE W/CPA
POLARIZATION OPTION D



8 CKT BRIDGED RECEPTACLE W/CPA
POLARIZATION OPTION A



8 CKT BRIDGED RECEPTACLE W/CPA
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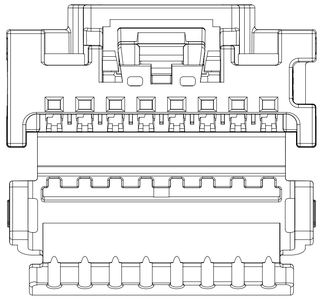
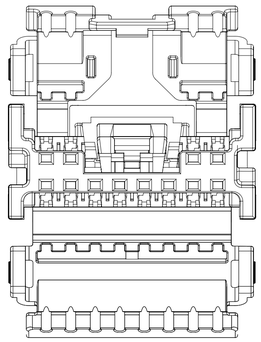
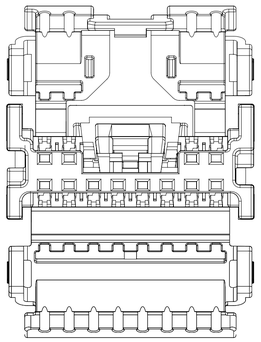


8 CKT BRIDGED RECEPTACLE W/CPA
POLARIZATION OPTION C



12 CKT BRIDGED RECEPTACLE W/CPA
POLARIZATION OPTION A



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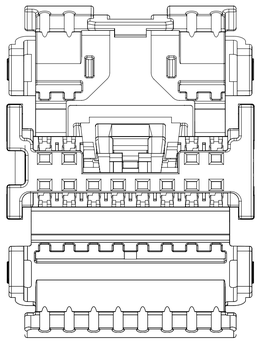

12 CKT BRIDGED RECEPTACLE W/CPA
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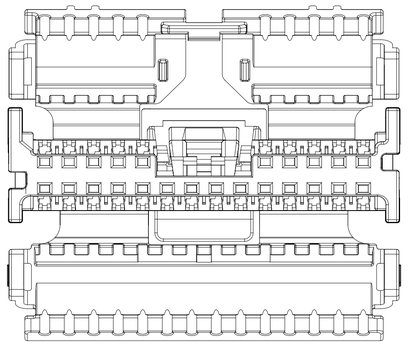
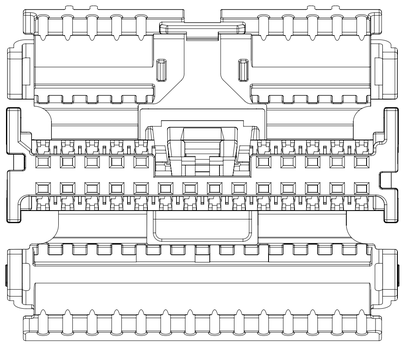
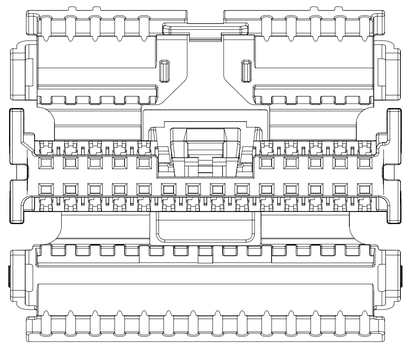


24 CKT BRIDGED RECEPTACLE W/CPA
POLARIZATION OPTION A



24 CKT BRIDGED RECEPTACLE W/CPA
POLARIZATION OPTION B



24 CKT BRIDGED RECEPTACLE W/CPA
POLARIZATION OPTION C

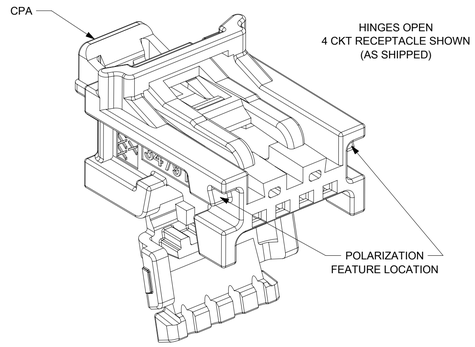
NOTES: VALID UNLESS OTHERWISE SPECIFIED

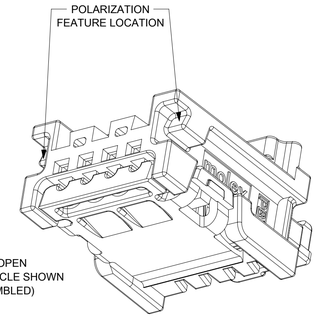
1. GENERAL:
 a. APPLICATION SPECIFICATION SEE: AS-34791-020
 b. PRODUCT SPECIFICATION SEE: PS-34791-020
 c. PACKAGING SPECIFICATION PER MOLEX DRAWING: SEE CHART
 d. PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: QEHS-699000-301
 e. DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS (COMPANY ID#13255)
 f. FLAMMABILITY REQUIREMENT: PER ISO3795 OR GM3191
  1. BURN RATE 100 mm/MIN MAXIMUM
  2. MATERIAL MUST BE SELF EXTINGUISHING
 g. VISUAL DEFECTS SHALL MEET COSMETIC STANDARD PS-45499-002 (Class B)
 f. FOR TERMINAL USAGE, REFER TO MOLEX SALES DRAWING SD-560023-002

2. DESIGN - MATERIALS:
 a. MATERIAL (4,8CKT): UNFILLED PBT
 b. MATERIAL (12,16,20,24CKT): PA410 25% GF

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 Y14.5 - 2009
 c. GENERAL TOLERANCES:
  LINEAR: PER DIN 16901 CODE B FOR PRECISION ENGINEERING (SEE TABLE)
  ANGULAR: ±3°
 d. EDGES AND UNDIMENSIONED DETAILS PER ISO13715
 e. CORNERS SHOWN AS SHARP TO BE R 0.2 MAX
 f. LETTERING SHALL BE 0.1 MAX RAISED IN 0.15 MAX RECESS PAD AND NOT PROTRUDE THE SURFACE. THIS INCLUDES RECYCLING CODE, PLANT ID, CAVITY ID, VENDOR ID, CIRCUIT ID, AND PART SERIES NUMBER.
 g. DIMENSION APPLIES ONLY TO RECEPTACLES WITH LOCK BRIDGE OPTION.

4. DESIGN - FUNCTIONALITY:
 a. HINGE DOES NOT AFFECT FUNCTION OF THE PART.





M6	ADDED DATUMS AND DATUM NOTE
M5	REMASTERING DRAWING
M2	UPDATED 24 CKT
REV	DESCRIPTION

24CKT POLARIZATIONS SHOWN ARE REPRESENTATIVE FOR 16 AND 20CKT

INSPECTION BALLOON NUMBER
PER DRAWING REVISION: M2
LAST BALLOON USED: 21
ADDED BALLOON NUMBERS:
REMOVED BALLOON NUMBERS: 22-33

QUALITY SYMBOLS	
A	= 0
E	= 0
F	= 0
	= 0
C	= 0
	= 0
	= 0
	= 0

EC NO: 607492
DRWN: JJOYA 2018/11/12
CHK'D: JDUNAJ 2018/11/13
APPR: JDUNAJ 2018/11/13
REV: M6

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	±	1.0 °
4 PLACES	±	
3 PLACES	±	
2 PLACES	±	0.1
1 PLACE	±	0.2
0 PLACES	±	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

DIMENSION UNITS: MM ONLY
SCALE: 5:1
DRWN BY: MYOUNG01 DATE: 2013/01/31
CHK'D BY: DATE:
APPR BY: RBAUMAN DATE: 2013/11/13
DRAWING SIZE: A1
THIRD ANGLE PROJECTION

molex®

MINI 50 SINGLE/DUAL ROW
CPA-RECEPTACLE ASSEMBLY SALES DRAWING

PRODUCT CUSTOMER DRAWING

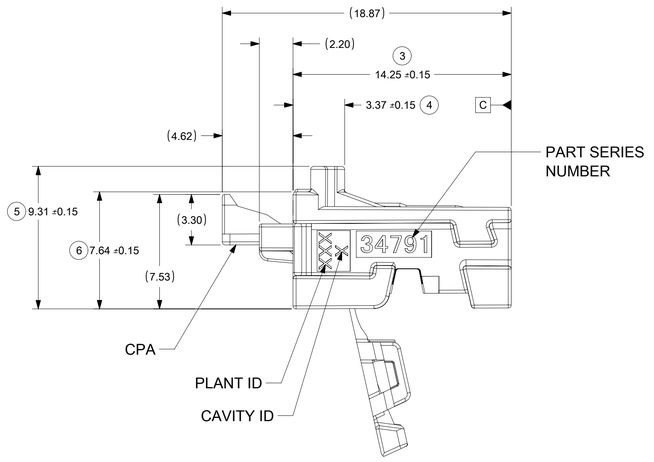
SERIES	MATERIAL NUMBER	CUSTOMER
34824	SEE TABLE	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
SD-34824-003	PSD	001	1 OF 4

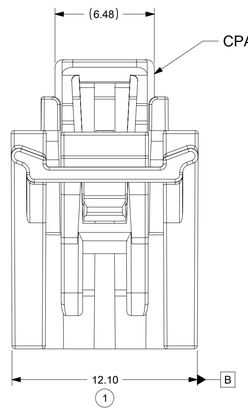
RELEASE STATUS	P1	RELEASE DATE	2018/11/13 14:01:48

COPYRIGHT, creator file prints A1
REVISION: N
DATE: 2017/02/08

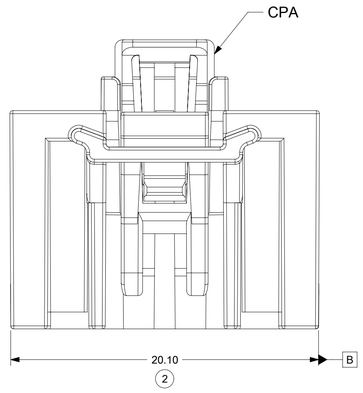
4CKT BRIDGE OPTION W/CPA IN PRE-LOCK

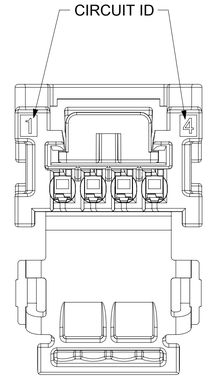


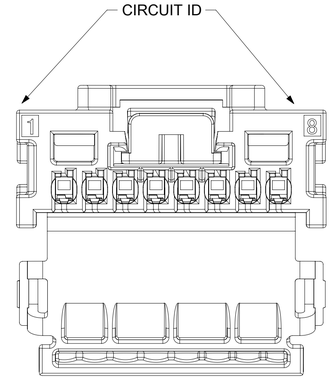
4CKT USCAR COMPATIBLE RECEPTACLE W/CPA



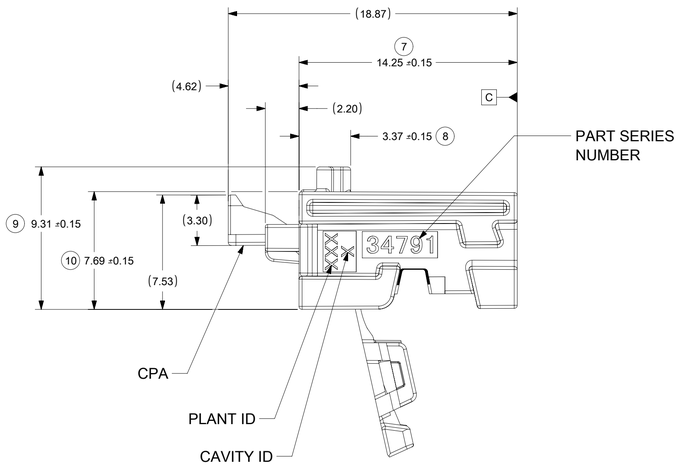
8CKT USCAR COMPATIBLE RECEPTACLE W/CPA

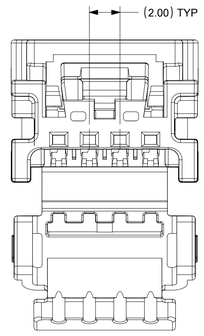


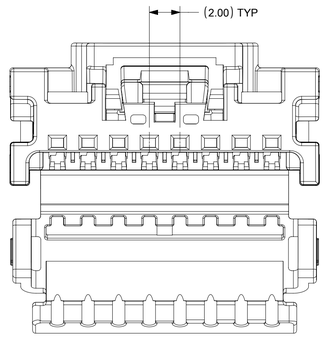




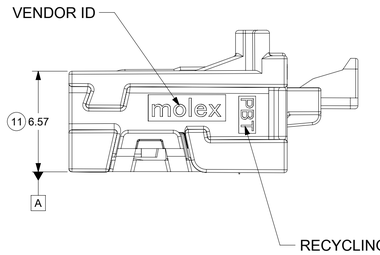
8CKT BRIDGE OPTION W/CPA IN PRE-LOCK







4CKT HINGE CLOSED



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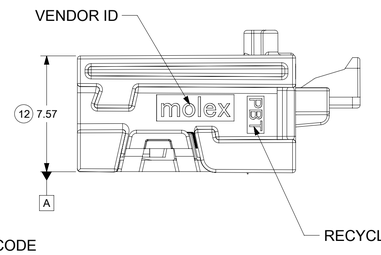

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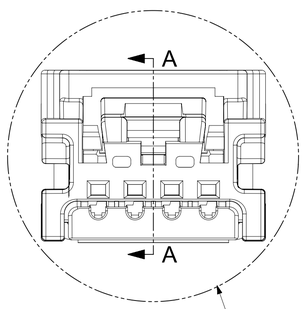

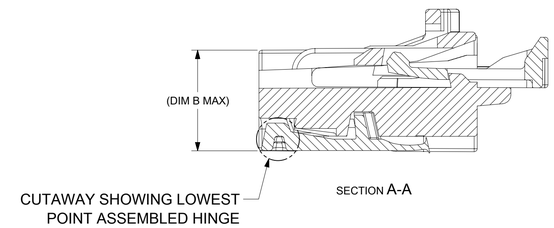

CHARTED DIMENSIONS		
DESCRIPTION	DIMENSION	
	A	B
4 CKT	16.09	6.77
8 CKT	22.52	7.77
12 CKT	23.18	8.47
16 CKT	26.87	8.47
20 CKT	30.65	8.47
24 CKT	34.47	8.47

DOCUMENT STATUS	P1	RELEASE DATE	2018/11/13 14:01:48

SYMBOLS	
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= 0	
= 0	
= 0	
= 0	
= 0	
= 0	
= 0	

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DIMENSION UNITS	SCALE
mm	5:1

GENERAL TOLERANCES (UNLESS SPECIFIED)		
ANGULAR TOL	±	1.0 °
4 PLACES	±	
3 PLACES	±	
2 PLACES	±	0.1
1 PLACE	±	0.2
0 PLACES	±	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 607492
DRWN: JJOYA 2018/11/12
CHK'D: JDUNAJ 2018/11/13
APPR: JDUNAJ 2018/11/13

INITIAL REVISION:
DRWN: TMACHUGA 2013/10/15
APPR: RBAUMAN 2013/11/13

THIRD ANGLE PROJECTION | DRAWING: A1-SIZE | SERIES: 34824

molex

MINI 50 SINGLE/DUAL ROW
CPA-RECEPTACLE ASSEMBLY SALES DRAWING

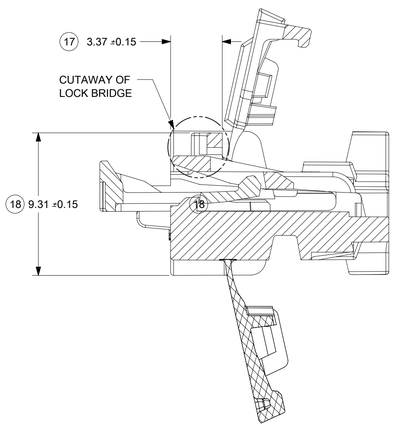
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-34824-003	PSD	001	M6

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	2 OF 4

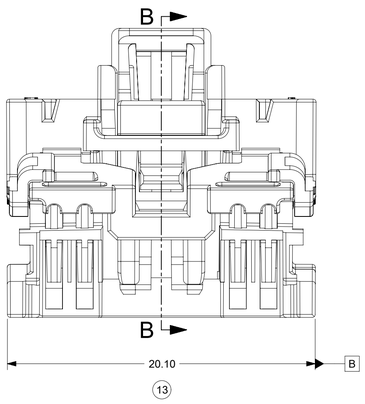
FORMAT: master-fit-print-A1
REVISION: 1.0
DATE: 2018/01/16

DUAL ROW LOCK BRIDGE OPTION

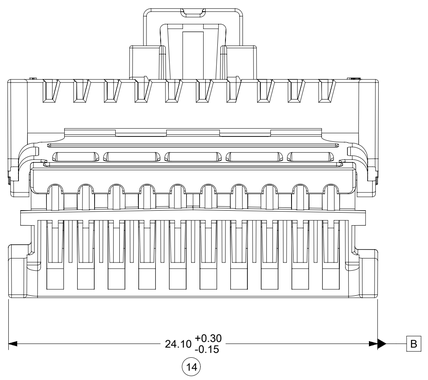


SECTION B-B

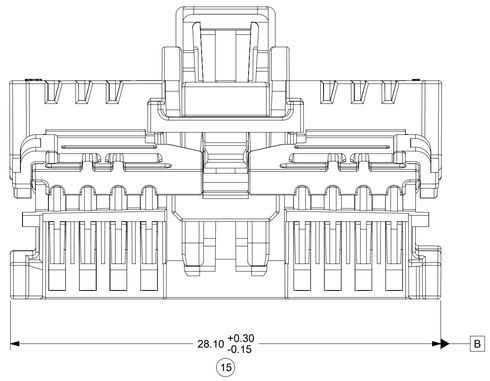
12 CKT USCAR COMPATIBLE RECEPTACLE W/CPA



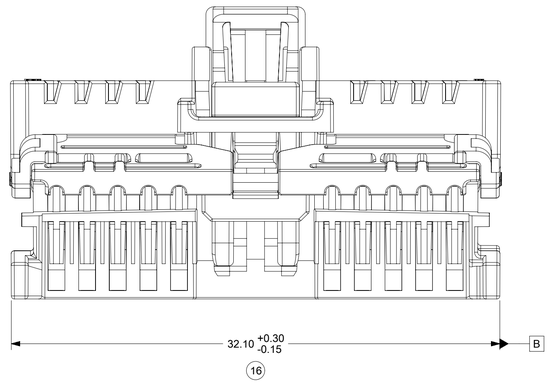
16 CKT USCAR COMPATIBLE RECEPTACLE W/CPA

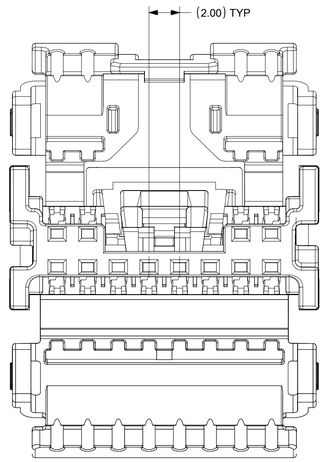


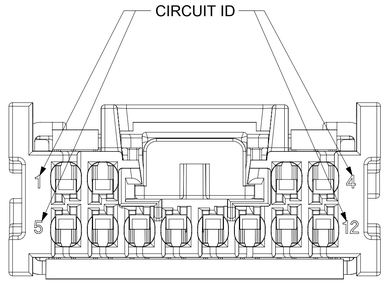
20 CKT USCAR COMPATIBLE RECEPTACLE W/CPA

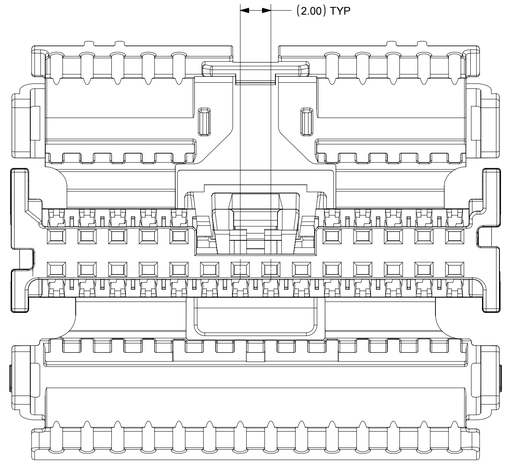


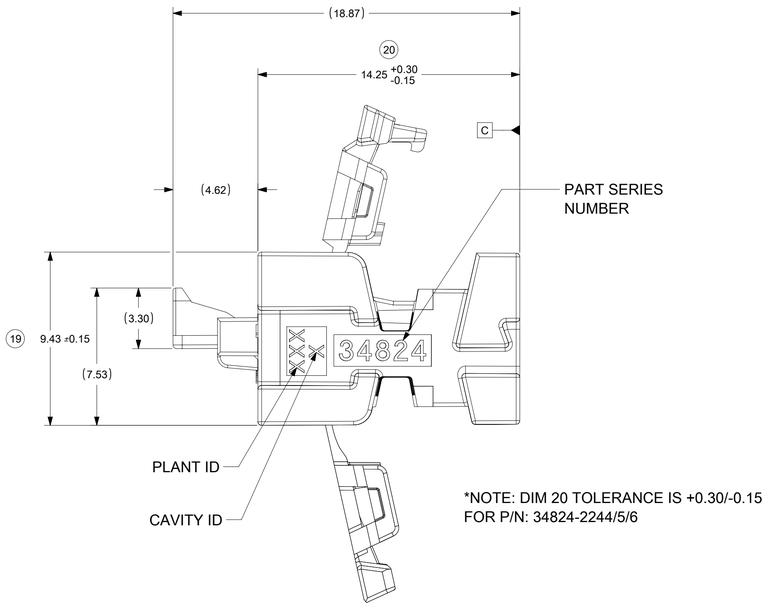
24 CKT USCAR COMPATIBLE RECEPTACLE W/CPA





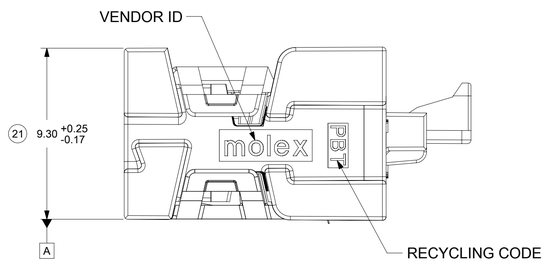






*NOTE: DIM 20 TOLERANCE IS +0.30/-0.15
FOR P/N: 34824-2244/5/6

HINGES CLOSED



*NOTE: DATUMS A AND C ARE SIMILAR FOR 12-24CKT CONNECTORS

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
= 0	DIMENSION UNITS: mm	SCALE: 5:1	CURRENT REV DESC:	molex
= 0	GENERAL TOLERANCES (UNLESS SPECIFIED)			MINI 50 SINGLE/DUAL ROW CPA-RECEPTACLE ASSEMBLY SALES DRAWING
= 0	ANGULAR TOL ± 1.0 °		EC NO: 607492	
= 0	4 PLACES ±		DRWN: JJOYA 2018/11/12	PRODUCT CUSTOMER DRAWING
= 0	3 PLACES ±		CHK'D: JDUNAJ 2018/11/13	
= 0	2 PLACES ± 0.1		APPR: JDUNAJ 2018/11/13	
= 0	1 PLACE ± 0.2		INITIAL REVISION:	DOCUMENT NUMBER: SD-34824-003 / DOC TYPE: PSD / DOC PART: 001 / REVISION: M6
= 0	0 PLACES ±		DRWN: TMACHUGA 2013/10/15	
= 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPR: RBAUMAN 2013/11/13	
= 0	THIRD ANGLE PROJECTION	DRAWING: A1-SIZE	SERIES: 34824	MATERIAL NUMBER / CUSTOMER: GENERAL MARKET / SHEET NUMBER: 3 OF 4

DOCUMENT STATUS	P1	RELEASE DATE	2018/11/13 14:01:48

SINGLE ROW ASSEMBLY
(RECEPTACLE WITH CPA)

MOLEX MATERIAL NUMBER BULK PACKAGING PK-31301-538	GENERAL MOTORS PART NUMBER	CONFIGURATION	MATERIAL TYPE	CIRCUIT	POL	COLOR	MATING COMPONENT					
							SURFACE MOUNT TECHNOLOGY (SMT) HEADER		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-31301-440	TUBE PACKAGING PK-31301-688	TAPE AND REEL PACKAGING PK-31301-440	TUBE PACKAGING PK-31301-688
34791-5140	13507113	USCAR	PBT	4	A	BLACK	34912-8040	34912-9040	34792-0040	34792-9040	34793-0040	34793-9040
34791-5141	13507115	USCAR		4	B	LIGHT GRAY	34912-8041	34912-9041	34792-0041	34792-9041	34793-0041	34793-9041
34791-5142	13507116	USCAR		4	C	DARK GRAY	34912-8042	34912-9042	34792-0042	34792-9042	34793-0042	34793-9042
34791-5143	13507117	USCAR		4	D	GREEN	34912-8043	34912-9043	34792-0043	34792-9043	34793-0043	34793-9043
34791-5180	13507118	USCAR		8	A	BLACK	34912-8080	34912-9080	34792-0080	34792-9080	34793-0080	34793-9080
34791-5181	13507119	USCAR		8	B	LIGHT GRAY	34912-8081	34912-9081	34792-0081	34792-9081	34793-0081	34793-9081
34791-5182	13507120	USCAR		8	C	DARK GRAY	34912-8082	34912-9082	34792-0082	34792-9082	34793-0082	34793-9082

DUAL ROW ASSEMBLY
(RECEPTACLE WITH CPA)

MOLEX MATERIAL NUMBER BULK PACKAGING PK-31301-538	GENERAL MOTORS PART NUMBER	CONFIGURATION	MATERIAL TYPE	CIRCUIT	POL	COLOR	MATING COMPONENT					
							SURFACE MOUNT TECHNOLOGY (SMT) HEADER		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-31301-440	TUBE PACKAGING PK-31301-688	TAPE AND REEL PACKAGING PK-31301-440	TUBE PACKAGING PK-31301-688
34824-5124	13507121	USCAR	ECOPAXX	12	A	BLACK	34897-8120	34897-9120	34825-0124	34825-9124	34826-0124	34826-9124
34824-5125	13507122	USCAR		12	B	LIGHT GRAY	34897-8121	34897-9121	34825-0125	34825-9125	34826-0125	34826-9125
34824-5126	13507114	USCAR		12	C	DARK GRAY	34897-8122	34897-9122	34825-0126	34825-9126	34826-0126	34826-9126
34824-2164	N/A	USCAR		16	A	BLACK	34897-8160	34897-9160	34825-0160	34825-9160	34826-0160	34826-9160
34824-2165	N/A	USCAR		16	B	LIGHT GRAY	34897-8161	34897-9161	34825-0161	34825-9161	34826-0161	34826-9161
34824-2166	N/A	USCAR		16	C	DARK GRAY	34897-8162	34897-9162	34825-0162	34825-9162	34826-0162	34826-9162
34824-2204	13596105	USCAR		20	A	BLACK	34897-8200	34897-9200	34825-0200	34825-9200	34826-0200	34826-9200
34824-2205	13596106	USCAR		20	B	LIGHT GRAY	34897-8201	34897-9201	34825-0201	34825-9201	34826-0201	34826-9201
34824-2206	13596107	USCAR		20	C	DARK GRAY	34897-8202	34897-9202	34825-0202	34825-9202	34826-0202	34826-9202
34824-2244	N/A	USCAR		24	A	BLACK	34897-8240	34897-9240	34825-0240	34825-9240	34826-0240	34826-9240
34824-2245	N/A	USCAR		24	B	LIGHT GRAY	34897-8241	34897-9241	34825-0241	34825-9241	34826-0241	34826-9241
34824-2246	N/A	USCAR		24	C	DARK GRAY	34897-8242	34897-9242	34825-0242	34825-9242	34826-0242	34826-9242
34824-2160	N/A	USCAR	PBT	16	A	BLACK	34897-8160	34897-9160	34825-0160	34825-9160	34826-0160	34826-9160
34824-2161	N/A	USCAR		16	B	LIGHT GRAY	34897-8161	34897-9161	34825-0161	34825-9161	34826-0161	34826-9161
34824-2162	N/A	USCAR		16	C	DARK GRAY	34897-8162	34897-9162	34825-0162	34825-9162	34826-0162	34826-9162
34824-2200	13596105	USCAR		20	A	BLACK	34897-8200	34897-9200	34825-0200	34825-9200	34826-0200	34826-9200
34824-2201	13596106	USCAR		20	B	LIGHT GRAY	34897-8201	34897-9201	34825-0201	34825-9201	34826-0201	34826-9201
34824-2202	13596107	USCAR		20	C	DARK GRAY	34897-8202	34897-9202	34825-0202	34825-9202	34826-0202	34826-9202
34824-2240	N/A	USCAR		24	A	BLACK	34897-8240	34897-9240	34825-0240	34825-9240	34826-0240	34826-9240
34824-2241	N/A	USCAR		24	B	LIGHT GRAY	34897-8241	34897-9241	34825-0241	34825-9241	34826-0241	34826-9241
34824-2242	N/A	USCAR		24	C	DARK GRAY	34897-8242	34897-9242	34825-0242	34825-9242	34826-0242	34826-9242
*NOTE: MOLEX CONFIGURATION CONSISTS OF AN EXPANSION OF THE 12CKT USCAR-COMPATIBLE CONFIGURATION TO ALLOW FOR 16, 20, AND 24 CIRCUITS												

MINI50 CPA (APPLIED TO SINGLE AND DUAL ROW BRIDGED RECEPTACLE CONNECTORS)

MATERIAL NUMBER	COLOR	MATING COMPONENT
34824-7000	NATURAL	SEE CHARTS ABOVE

CTX50 UNSEALED RECEPTACLE TERMINALS

PART NUMBER		MATERIAL	WIRE GAGE (mm²)	GRIP
D-WIND (LEFT PAYOFF)	B-WIND (RIGHT PAYOFF)			
560023-0448	560023-0450	COPPER ALLOY	0.35	LARGE
560023-0421	560023-0423	COPPER ALLOY	0.22	MEDIUM
560023-0422	560023-0424	COPPER ALLOY	0.13	SMALL

DOCUMENT STATUS	P1	RELEASE DATE	2018/11/13 14:01:48

SYMBOLS	
= 0	
= 0	
= 0	
= 0	
= 0	
= 0	
= 0	
= 0	

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

DIMENSION UNITS	SCALE
mm	1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 1.0 °
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.1
1 PLACE	± 0.2
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 607492
DRWN: JJOYA 2018/11/12
CHK'D: JDUNAJ 2018/11/13
APPR: JDUNAJ 2018/11/13

INITIAL REVISION:
DRWN: TMACHUGA 2013/10/15
APPR: RBAUMAN 2013/11/13

THIRD ANGLE PROJECTION | DRAWING: A1-SIZE | SERIES: 34824

molex

MINI 50 SINGLE/DUAL ROW
CPA-RECEPTACLE ASSEMBLY SALES DRAWING

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-34824-003	PSD	001	M6

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	4 OF 4