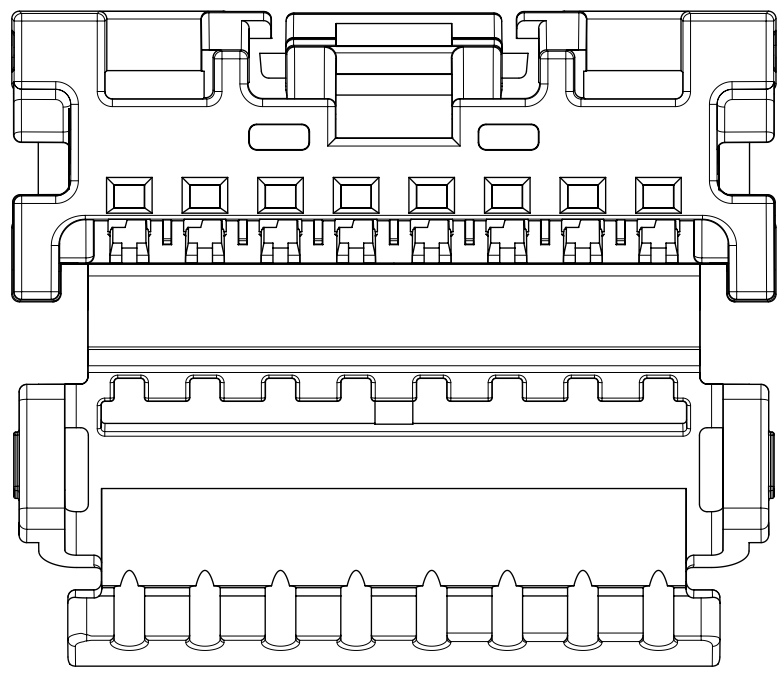
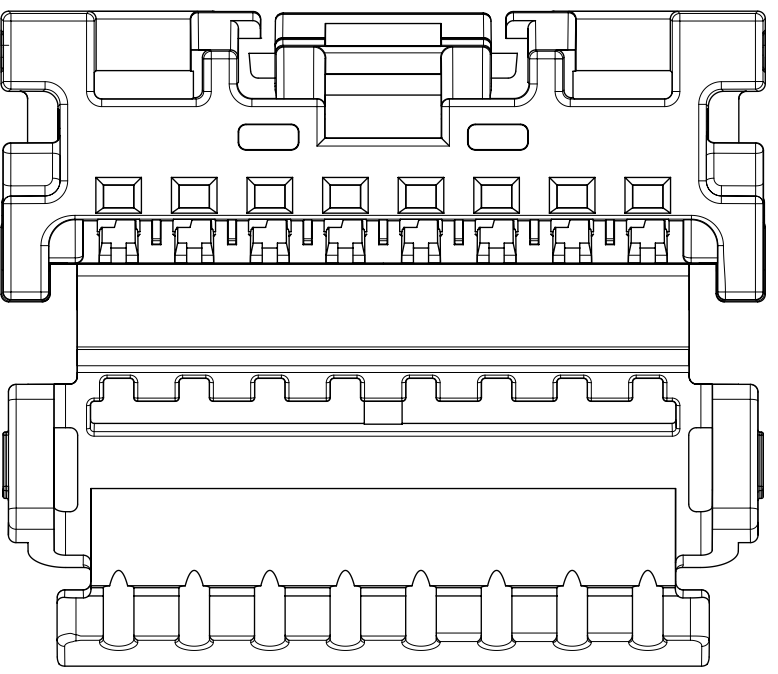




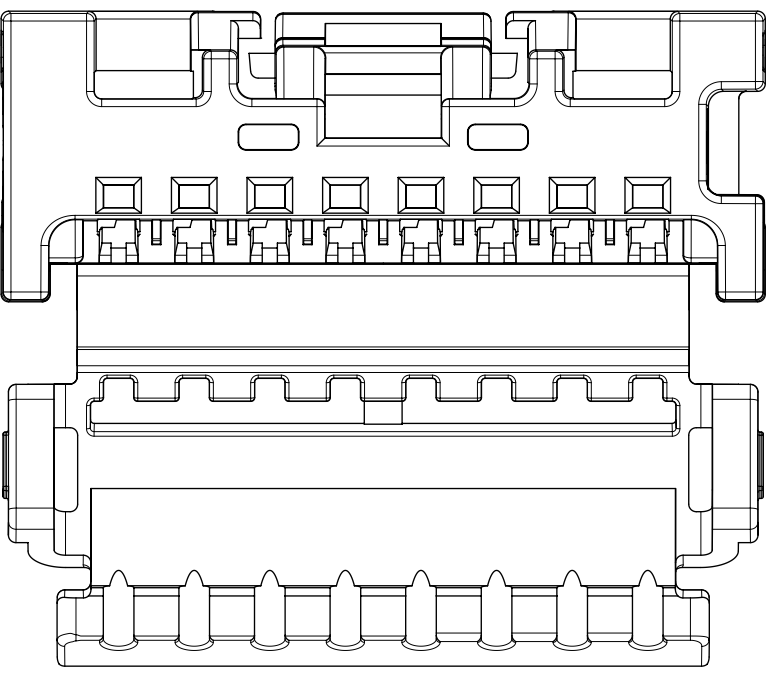




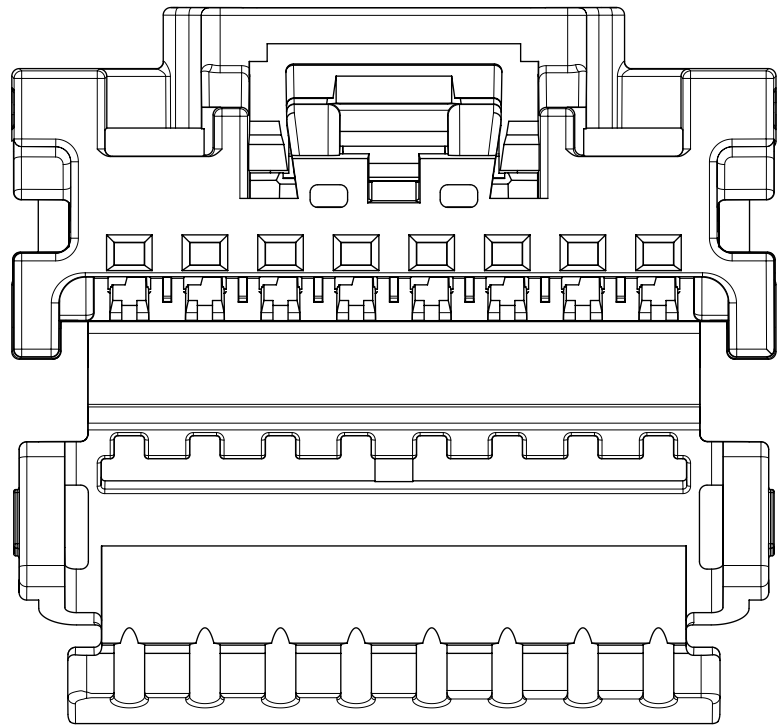
8 CIRCUIT RECEPTACLE WITHOUT LOCK BRIDGE  
POLARIZATION OPTION A



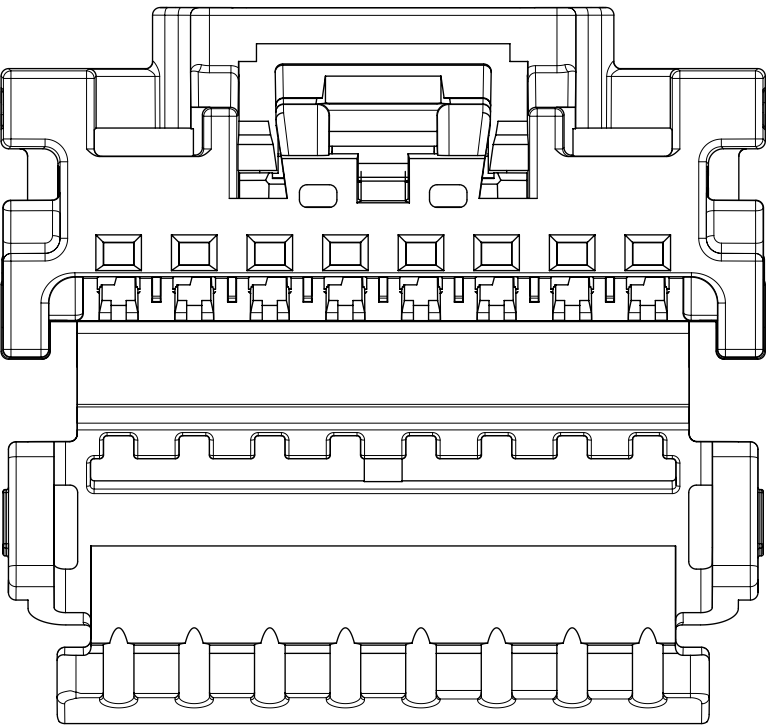
8 CIRCUIT RECEPTACLE WITHOUT LOCK BRIDGE  
POLARIZATION OPTION B



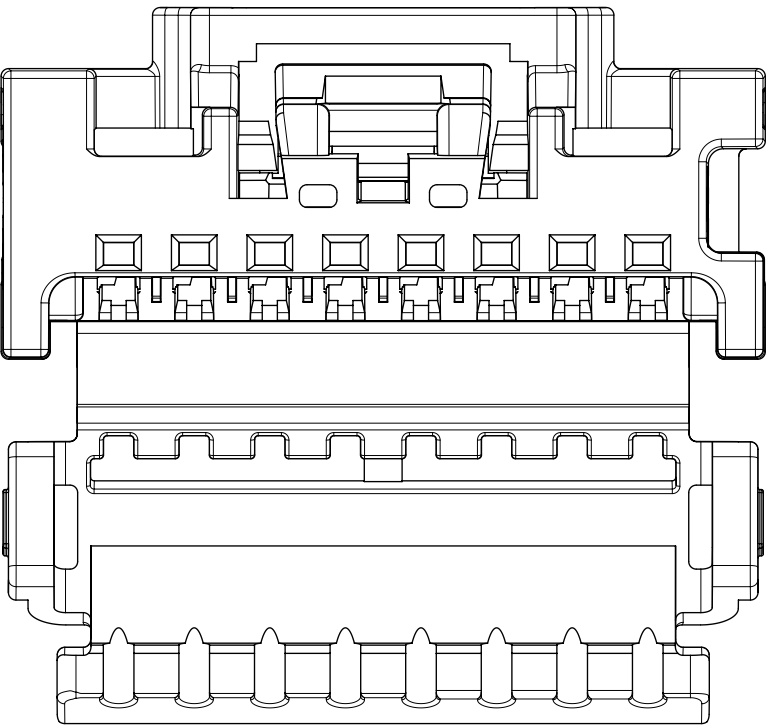
8 CIRCUIT RECEPTACLE WITHOUT LOCK BRIDGE  
POLARIZATION OPTION C



8 CIRCUIT RECEPTACLE BRIDGED  
POLARIZATION OPTION A

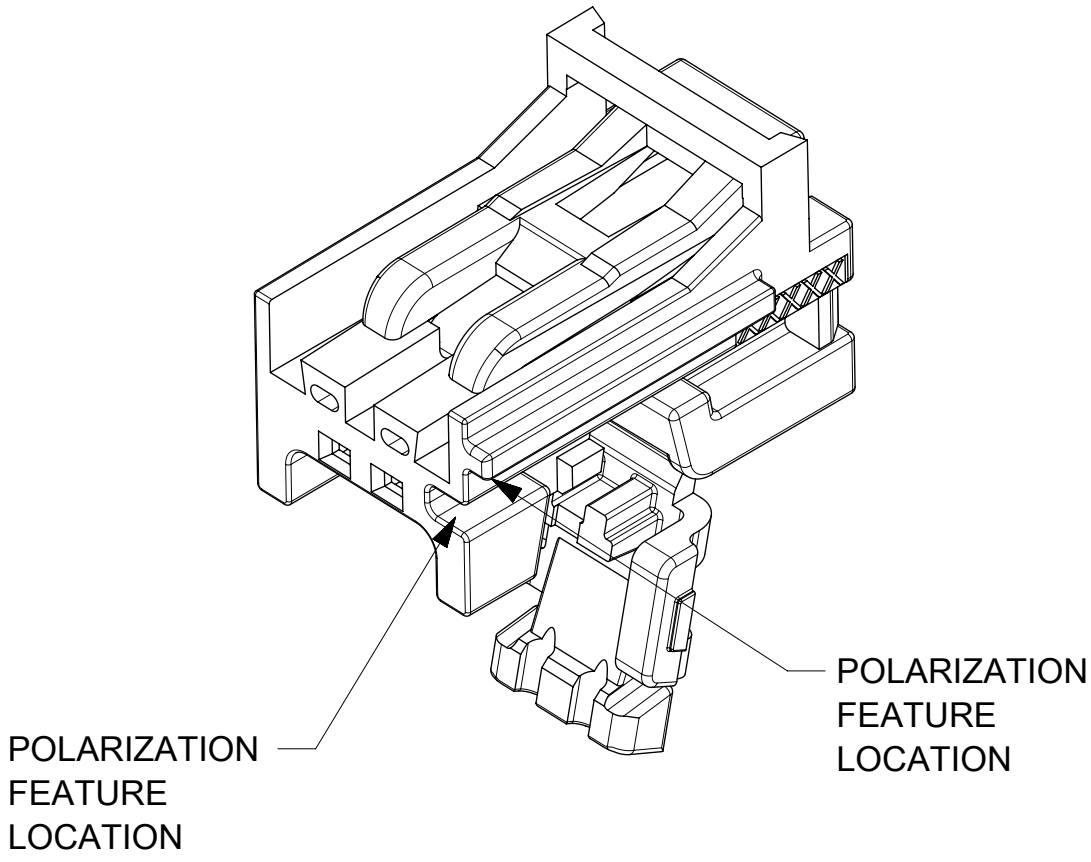


8 CIRCUIT RECEPTACLE BRIDGED  
POLARIZATION OPTION B

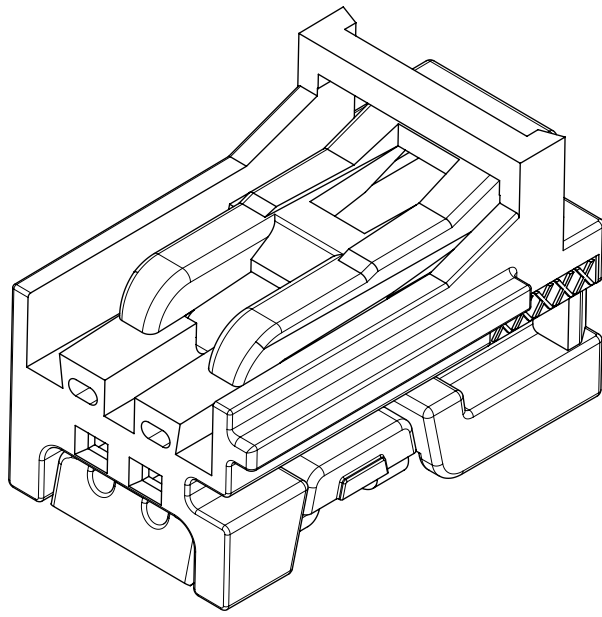


8 CIRCUIT RECEPTACLE BRIDGED  
POLARIZATION OPTION C

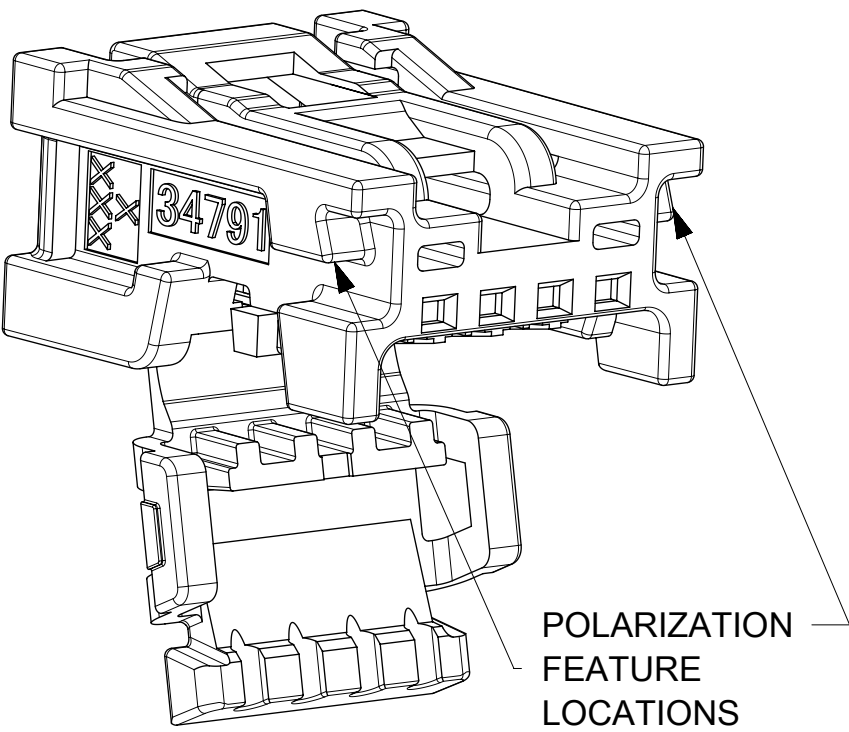
HINGE OPEN  
2 CIRCUIT RECEPTACLE SHOWN  
(AS SHIPPED)



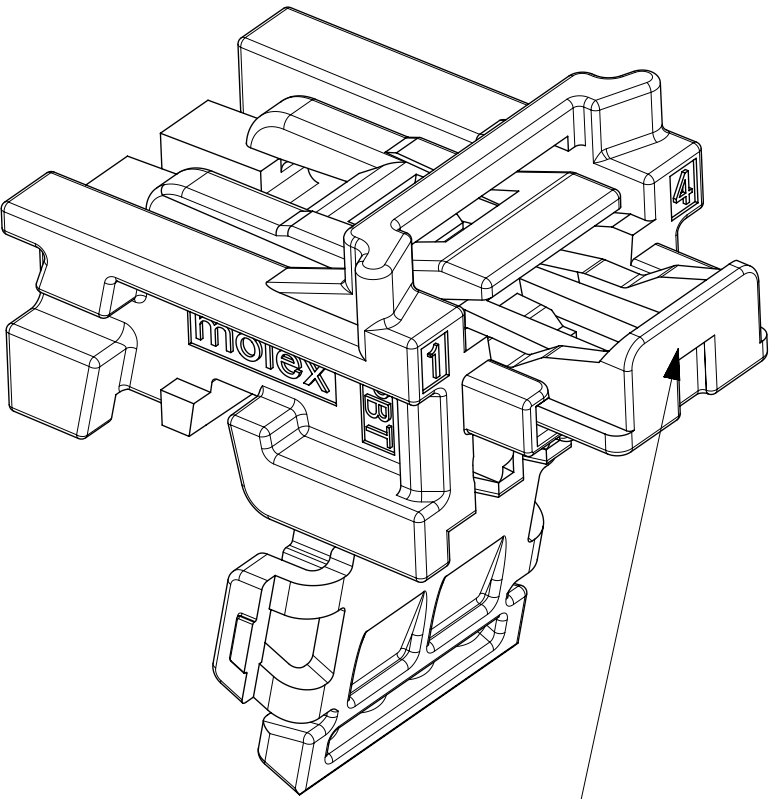
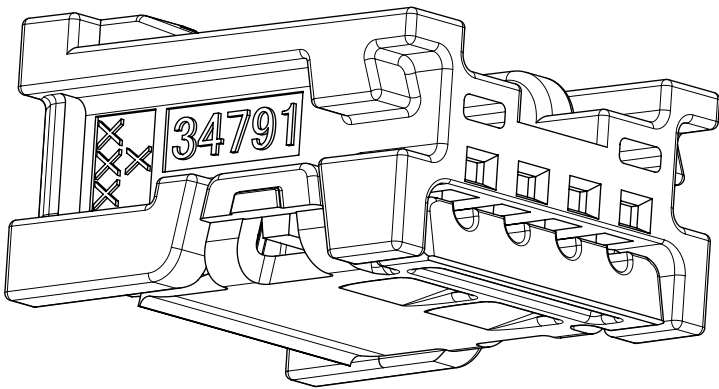
HINGE CLOSED  
2 CIRCUIT RECEPTACLE SHOWN  
(AS ASSEMBLED)



HINGE OPEN  
4 CIRCUIT RECEPTACLE SHOWN  
(AS SHIPPED)



HINGE CLOSED  
4 CIRCUIT RECEPTACLE SHOWN  
(AS ASSEMBLED)



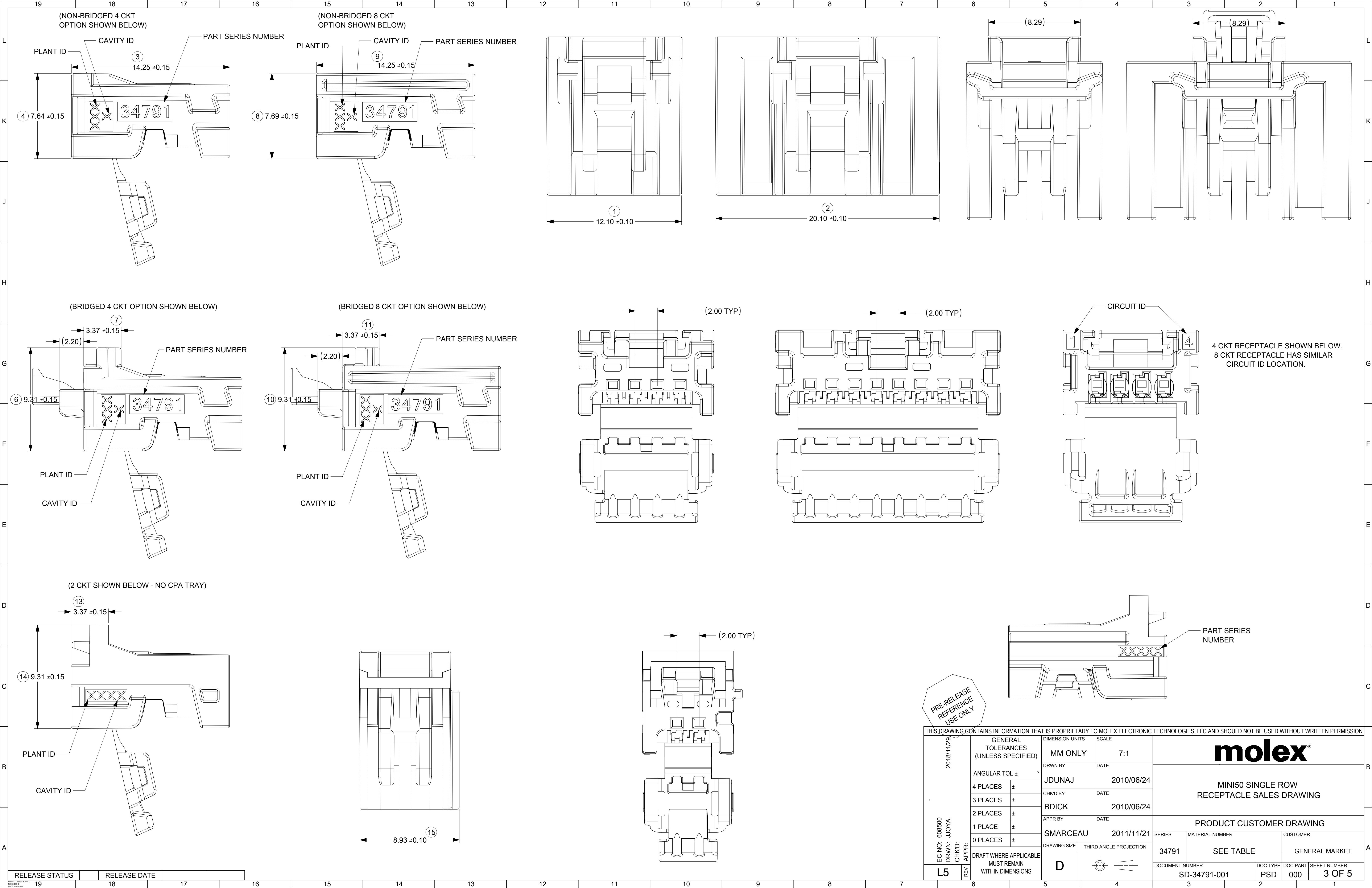
MINI50 WITH BRIDGE OPTION  
COMES WITH CPA TRAY

\*REFER TO SD-34824-003 FOR  
CPA-RECEPTACLE ASSEMBLIES

PRE-RELEASE  
REFERENCE  
USE ONLY

|                                                                                                                                               |            |                                                            |  |                 |  |                        |  |                                                                                        |                 |           |          |                |  |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------|--|-----------------|--|------------------------|--|----------------------------------------------------------------------------------------|-----------------|-----------|----------|----------------|--|--------------|
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |            |                                                            |  |                 |  |                        |  |                                                                                        |                 |           |          |                |  |              |
| EC NO: 608500<br>DRWN: JJOYA<br>CHKD:<br>REV: APPR:                                                                                           | 2018/11/29 | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |  | DIMENSION UNITS |  | SCALE                  |  | <div>molex<sup>®</sup></div> <div>MINI50 SINGLE ROW<br/>RECEPTACLE SALES DRAWING</div> |                 |           |          |                |  |              |
|                                                                                                                                               |            | ANGULAR TOL ± °                                            |  | MM ONLY         |  | 5:1                    |  |                                                                                        |                 |           |          |                |  |              |
|                                                                                                                                               |            | 4 PLACES ±                                                 |  | DRWN BY         |  | DATE                   |  |                                                                                        |                 |           |          |                |  |              |
|                                                                                                                                               |            | 3 PLACES ±                                                 |  | JDUNAJ          |  | 2010/06/24             |  |                                                                                        |                 |           |          |                |  |              |
|                                                                                                                                               |            | 2 PLACES ±                                                 |  | CHK'D BY        |  | DATE                   |  |                                                                                        |                 |           |          |                |  |              |
|                                                                                                                                               |            | 1 PLACE ±                                                  |  | BDICK           |  | 2010/06/24             |  |                                                                                        |                 |           |          |                |  |              |
|                                                                                                                                               |            | 0 PLACES ±                                                 |  | APPR BY         |  | DATE                   |  | PRODUCT CUSTOMER DRAWING                                                               |                 |           |          |                |  |              |
|                                                                                                                                               |            | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |  | DRAWING SIZE    |  | THIRD ANGLE PROJECTION |  | SERIES                                                                                 | MATERIAL NUMBER |           | CUSTOMER |                |  |              |
|                                                                                                                                               |            | L5                                                         |  | REV             |  | D                      |  | 34791                                                                                  |                 | SEE TABLE |          | GENERAL MARKET |  |              |
|                                                                                                                                               |            |                                                            |  |                 |  |                        |  | DOCUMENT NUMBER                                                                        |                 | DOC TYPE  |          | DOC PART       |  | SHEET NUMBER |
|                                                                                                                                               |            |                                                            |  |                 |  | SD-34791-001           |  | PSD                                                                                    |                 | 000       |          | 2 OF 5         |  |              |





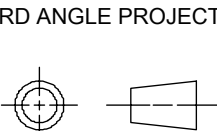


## MINI50 RECEPTACLES

| MATERIAL NUMBER<br>BULK PACKAGING<br>PK-31301-538 | LOCK BRIDGE<br>OPTION | CONFIGURATION    | CIRCUIT | POL | COLOR     | MATING COMPONENT                          |                                |                                            |                                |                                |                                |                                |                                |
|---------------------------------------------------|-----------------------|------------------|---------|-----|-----------|-------------------------------------------|--------------------------------|--------------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
|                                                   |                       |                  |         |     |           | SURFACE MOUNT TECHNOLOGY (SMT) HEADER-TIN |                                | SURFACE MOUNT TECHNOLOGY (SMT) HEADER-GOLD |                                | VERTICAL THRU HOLE HEADER      |                                | RIGHT ANGLE THRU HOLE HEADERS  |                                |
|                                                   |                       |                  |         |     |           | TAPE AND REEL PACKAGING<br>PK-31301-786   | TUBE PACKAGING<br>PK-31301-688 | TAPE AND REEL PACKAGING<br>PK-31301-786    | TUBE PACKAGING<br>PK-31301-688 | TRAY PACKAGING<br>PK-31301-440 | TUBE PACKAGING<br>PK-31301-688 | TRAY PACKAGING<br>PK-31301-440 | TUBE PACKAGING<br>PK-31301-688 |
| 34791-0040                                        | NO                    | USCAR COMPATIBLE | 4       | A   | BLACK     | 34912-8040                                | 34912-9040                     | 34912-6040                                 | 34912-5040                     | 34792-0040                     | 34792-9040                     | 34793-0040                     | 34793-9040                     |
| 34791-0041                                        | NO                    | USCAR COMPATIBLE | 4       | B   | GRAY      | 34912-8041                                | 34912-9041                     | 34912-6041                                 | 34912-5041                     | 34792-0041                     | 34792-9041                     | 34793-0041                     | 34793-9041                     |
| 34791-0042                                        | NO                    | USCAR COMPATIBLE | 4       | C   | DARK GRAY | 34912-8042                                | 34912-9042                     | 34912-6042                                 | 34912-5042                     | 34792-0042                     | 34792-9042                     | 34793-0042                     | 34793-9042                     |
| 34791-0043                                        | NO                    | USCAR COMPATIBLE | 4       | D   | GREEN     | 34912-8043                                | 34912-9043                     | 34912-6043                                 | 34912-5043                     | 34792-0043                     | 34792-9043                     | 34793-0043                     | 34793-9043                     |
| 34791-0080                                        | NO                    | USCAR COMPATIBLE | 8       | A   | BLACK     | 34912-8080                                | 34912-9080                     | 34912-6080                                 | 34912-5080                     | 34792-0080                     | 34792-9080                     | 34793-0080                     | 34793-9080                     |
| 34791-0081                                        | NO                    | USCAR COMPATIBLE | 8       | B   | GRAY      | 34912-8081                                | 34912-9081                     | 34912-6081                                 | 34912-5081                     | 34792-0081                     | 34792-9081                     | 34793-0081                     | 34793-9081                     |
| 34791-0082                                        | NO                    | USCAR COMPATIBLE | 8       | C   | DARK GRAY | 34912-8082                                | 34912-9082                     | 34912-6082                                 | 34912-5082                     | 34792-0082                     | 34792-9082                     | 34793-0082                     | 34793-9082                     |
| 34791-0140                                        | YES                   | USCAR COMPATIBLE | 4       | A   | BLACK     | 34912-8040                                | 34912-9040                     | 34912-6040                                 | 34912-5040                     | 34792-0040                     | 34792-9040                     | 34793-0040                     | 34793-9040                     |
| 34791-0141                                        | YES                   | USCAR COMPATIBLE | 4       | B   | GRAY      | 34912-8041                                | 34912-9041                     | 34912-6041                                 | 34912-5041                     | 34792-0041                     | 34792-9041                     | 34793-0041                     | 34793-9041                     |
| 34791-0142                                        | YES                   | USCAR COMPATIBLE | 4       | C   | DARK GRAY | 34912-8042                                | 34912-9042                     | 34912-6042                                 | 34912-5042                     | 34792-0042                     | 34792-9042                     | 34793-0042                     | 34793-9042                     |
| 34791-0143                                        | YES                   | USCAR COMPATIBLE | 4       | D   | GREEN     | 34912-8043                                | 34912-9043                     | 34912-6043                                 | 34912-5043                     | 34792-0043                     | 34792-9043                     | 34793-0043                     | 34793-9043                     |
| 34791-0180                                        | YES                   | USCAR COMPATIBLE | 8       | A   | BLACK     | 34912-8080                                | 34912-9080                     | 34912-6080                                 | 34912-5080                     | 34792-0080                     | 34792-9080                     | 34793-0080                     | 34793-9080                     |
| 34791-0181                                        | YES                   | USCAR COMPATIBLE | 8       | B   | GRAY      | 34912-8081                                | 34912-9081                     | 34912-6081                                 | 34912-5081                     | 34792-0081                     | 34792-9081                     | 34793-0081                     | 34793-9081                     |
| 34791-0182                                        | YES                   | USCAR COMPATIBLE | 8       | C   | DARK GRAY | 34912-8082                                | 34912-9082                     | 34912-6082                                 | 34912-5082                     | 34792-0082                     | 34792-9082                     | 34793-0082                     | 34793-9082                     |
| 34791-0020                                        | YES                   | MOLEX            | 2       | A   | BLACK     | 34912-8020                                | 34912-9020                     | 34912-6020                                 | 34912-5020                     | N/A                            | N/A                            | N/A                            | N/A                            |
| 34791-0021                                        | YES                   | MOLEX            | 2       | B   | GRAY      | 34912-8021                                | 34912-9021                     | 34912-6021                                 | 34912-5021                     | N/A                            | N/A                            | N/A                            | N/A                            |
| 34791-0022                                        | YES                   | MOLEX            | 2       | C   | DARK GRAY | 34912-8022                                | 34912-9022                     | 34912-6022                                 | 34912-5022                     | N/A                            | N/A                            | N/A                            | N/A                            |
| 34791-0023                                        | YES                   | MOLEX            | 2       | D   | GREEN     | 34912-8023                                | 34912-9023                     | 34912-6023                                 | 34912-5023                     | N/A                            | N/A                            | N/A                            | N/A                            |

## CTX50 UNSEALED RECEPTACLE TERMINALS

| PART NUMBER             |                          | MATERIAL     | WIRE GAGE<br>(mm <sup>2</sup> ) | GRIP   |
|-------------------------|--------------------------|--------------|---------------------------------|--------|
| D-WIND<br>(LEFT PAYOFF) | B-WIND<br>(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  |

|                                                                                                                                                                            |            |                                       |                        |                                                                                       |       |                                                                                  |                 |                                                                                                                                  |              |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------|------------------------|---------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------|--------------|--|
| <div style="border: 1px solid black; padding: 5px; transform: rotate(-15deg); display: inline-block;">             PRE-RELEASE<br/>REFERENCE<br/>USE ONLY           </div> |            |                                       |                        |                                                                                       |       |                                                                                  |                 |                                                                                                                                  |              |  |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION                              |            |                                       |                        |                                                                                       |       |                                                                                  |                 |                                                                                                                                  |              |  |
| EC NO: 608500<br>DRWN: JJOYA<br>CHK'D:<br>APPR:                                                                                                                            | 2018/11/29 | GENERAL TOLERANCES (UNLESS SPECIFIED) |                        | DIMENSION UNITS                                                                       | SCALE | <div style="text-align: center; font-size: 2em; font-weight: bold;">molex®</div> |                 |                                                                                                                                  |              |  |
|                                                                                                                                                                            |            | ANGULAR TOL ±                         |                        | MM ONLY                                                                               | 5:1   |                                                                                  |                 |                                                                                                                                  |              |  |
|                                                                                                                                                                            |            | 4 PLACES ±                            |                        | DRWN BY                                                                               |       | DATE                                                                             |                 | <div style="text-align: center; font-weight: bold;">             MINI50 SINGLE ROW<br/>RECEPTACLE SALES DRAWING           </div> |              |  |
|                                                                                                                                                                            |            | 3 PLACES ±                            |                        | JDUNAJ                                                                                |       | 2010/06/24                                                                       |                 |                                                                                                                                  |              |  |
|                                                                                                                                                                            |            | 2 PLACES ±                            |                        | CHK'D BY                                                                              |       | DATE                                                                             |                 |                                                                                                                                  |              |  |
|                                                                                                                                                                            |            | 1 PLACE ±                             |                        | BDICK                                                                                 |       | 2010/06/24                                                                       |                 |                                                                                                                                  |              |  |
|                                                                                                                                                                            |            | 0 PLACES ±                            |                        | APPR BY                                                                               |       | DATE                                                                             |                 | <div style="text-align: center; font-weight: bold;">PRODUCT CUSTOMER DRAWING</div>                                               |              |  |
|                                                                                                                                                                            |            |                                       |                        | SMARCEAU                                                                              |       | 2011/11/21                                                                       |                 |                                                                                                                                  |              |  |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                                                                                                                       |            | DRAWING SIZE                          | THIRD ANGLE PROJECTION |                                                                                       |       | SERIES                                                                           | MATERIAL NUMBER | CUSTOMER                                                                                                                         |              |  |
| L5                                                                                                                                                                         | REV        |                                       | D                      |  |       | 34791                                                                            | SEE TABLE       | GENERAL MARKET                                                                                                                   |              |  |
|                                                                                                                                                                            |            |                                       |                        |                                                                                       |       | DOCUMENT NUMBER                                                                  | DOC TYPE        | DOC PART                                                                                                                         | SHEET NUMBER |  |
|                                                                                                                                                                            |            |                                       |                        |                                                                                       |       | SD-34791-001                                                                     | PSD             | 000                                                                                                                              | 5 OF 5       |  |







Technical drawing of a mold cavity with dimensions and labels. The drawing shows a cross-section of the mold with various dimensions and features labeled.

Dimensions:

- (18.87)
- (2.20)
- 14.25  $\pm 0.15$
- 3.37  $\pm 0.15$
- (4.62)
- (3.30)
- (7.53)
- 9.31  $\pm 0.15$
- 7.64  $\pm 0.15$

Labels:

- CPA
- PLANT ID
- CAVITY ID
- PART SERIES NUMBER

Other features:

- 3
- 4
- C
- 34791

[illegible]

CPA

20.10

(2)

Technical drawing of a mold cavity with dimensions and labels:

- Dimensions:
  - (18.87)
  - (4.62)
  - (7)
  - 14.25  $\pm 0.15$
  - (2.20)
  - 3.37  $\pm 0.15$  (8)
  - (3.30)
  - (7.53)
  - 9.31  $\pm 0.15$  (9)
  - 7.69  $\pm 0.15$  (10)
- Labels:
  - CPA
  - PLANT ID
  - CAVITY ID
  - PART SERIES NUMBER
- Part Number: 34791

Technical drawing of a Molex connector. The drawing shows the side profile of the component. Key features and labels include:

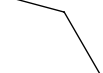
- VENDOR ID**: Points to the top surface of the connector.
- 11) 6.57**: Dimension indicating the height of the connector.
- A**: Dimension indicating the width of the connector.
- molex**: The brand name printed on the side of the connector.
- RECYCLING CODE**: Points to the recycling symbol (a triangle with the number 10) on the side of the connector.
- 12)**: Dimension indicating the length of the connector.

VENDOR ID

12 7.57

A

RECYCLING CODE



(DIM B MAX)

LOWEST

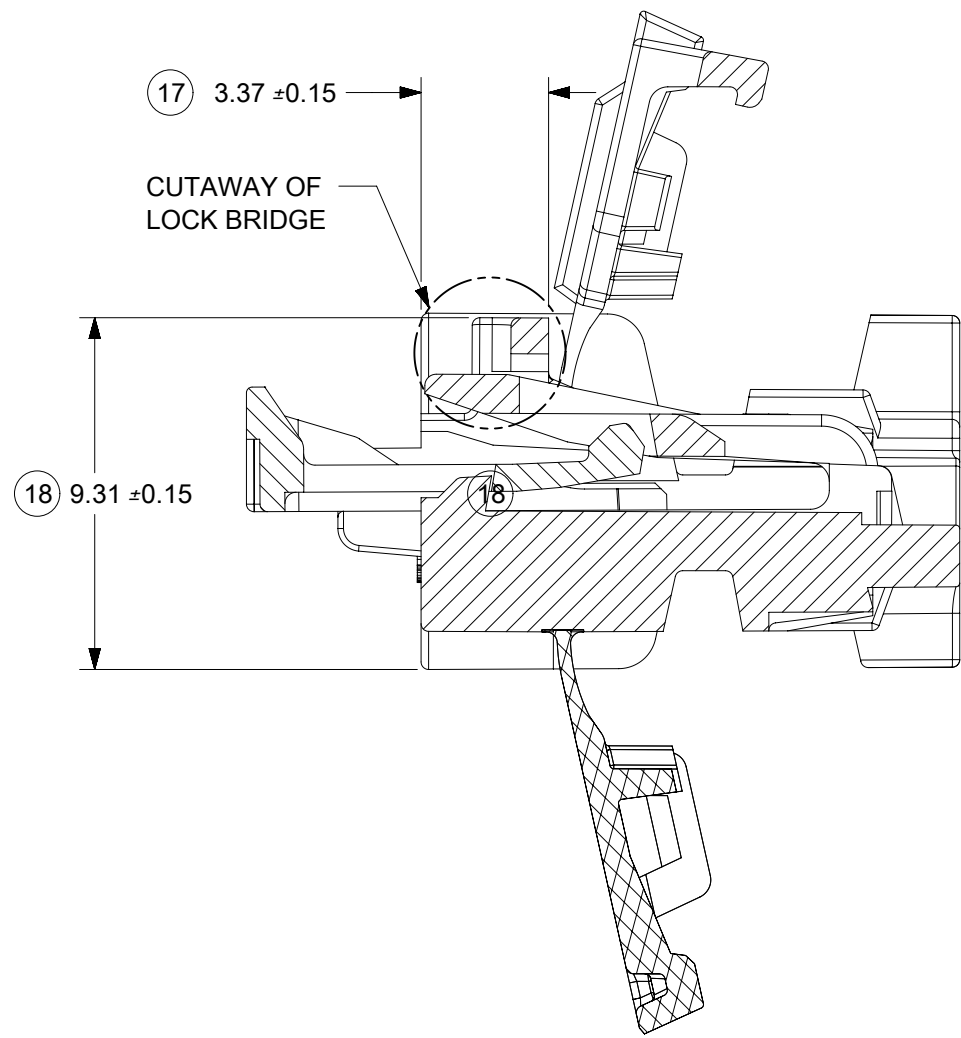
SECTION A-A

| 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 |

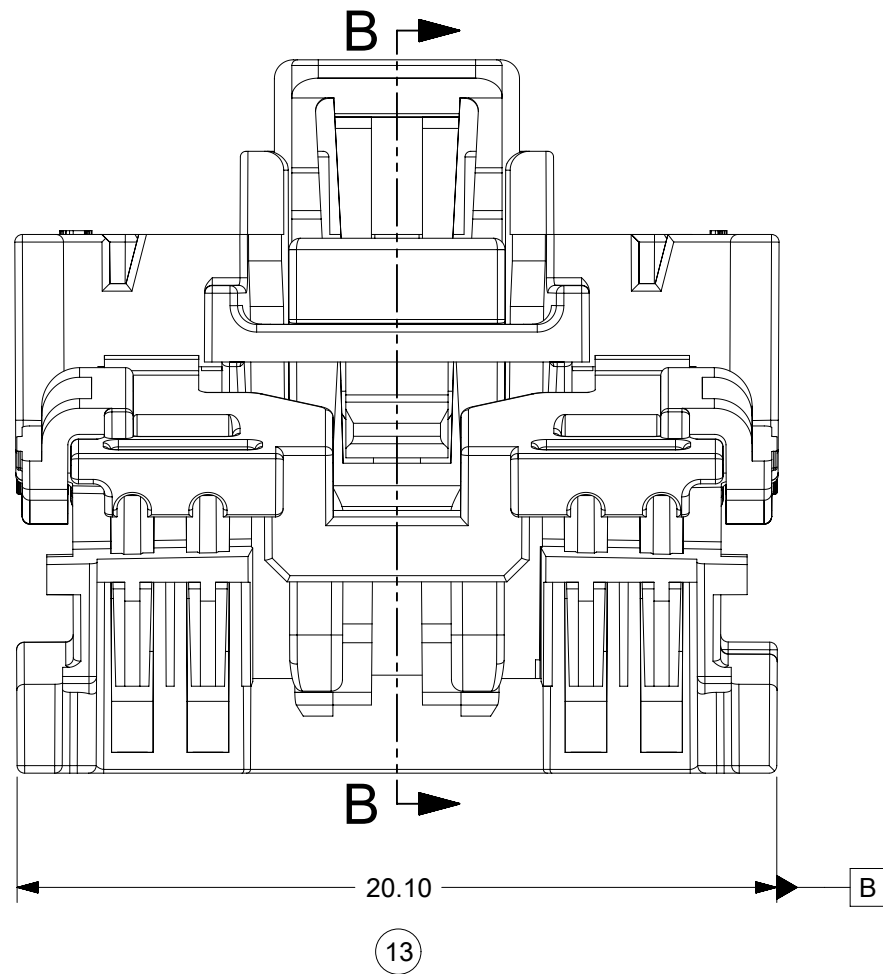
| SYMBOLS                                  |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |                                                            |  |  |  |                                                                                               |  |  |  |
|------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------|--|--|--|-----------------------------------------------------------------------------------------------|--|--|--|
| DIMENSION UNITS                          |  | SCALE                                                                                                                                         |  | CURRENT REV DESC:                                          |  |  |  | <div>molex</div> <div>MINI 50 SINGLE/DUAL ROW<br/>CPA-RECEPTACLE ASSEMBLY SALES DRAWING</div> |  |  |  |
| mm                                       |  | 5:1                                                                                                                                           |  |                                                            |  |  |  |                                                                                               |  |  |  |
| GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |  | ANGULAR TOL ± 1.0°                                                                                                                            |  | EC NO: 608500<br>DRWN: JJOYA 2018/11/30<br>CHK'D:<br>APPR: |  |  |  | PRODUCT CUSTOMER DRAWING                                                                      |  |  |  |
| 4 PLACES ±                               |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
| 3 PLACES ±                               |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
| 2 PLACES ± 0.1                           |  |                                                                                                                                               |  | INITIAL REVISION:                                          |  |  |  | DOCUMENT NUMBER                                                                               |  |  |  |
| 1 PLACE ± 0.2                            |  |                                                                                                                                               |  | DRWN: TMACHUGA 2013/10/15                                  |  |  |  | DOC TYPE                                                                                      |  |  |  |
| 0 PLACES ±                               |  |                                                                                                                                               |  | APPR: RBAUMAN 2013/11/13                                   |  |  |  | DOC PART                                                                                      |  |  |  |
|                                          |  |                                                                                                                                               |  |                                                            |  |  |  | REVISION                                                                                      |  |  |  |
|                                          |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
|                                          |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
|                                          |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
|                                          |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
|                                          |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
|                                          |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
|                                          |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
|                                          |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
|                                          |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
|                                          |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
|                                          |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
|                                          |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
|                                          |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
|                                          |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
|                                          |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
|                                          |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
|                                          |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
|                                          |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
|                                          |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
|                                          |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
|                                          |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
|                                          |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
|                                          |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
|                                          |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
|                                          |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
|                                          |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
|                                          |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
|                                          |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
|                                          |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
|                                          |  |                                                                                                                                               |  |                                                            |  |  |  |                                                                                               |  |  |  |
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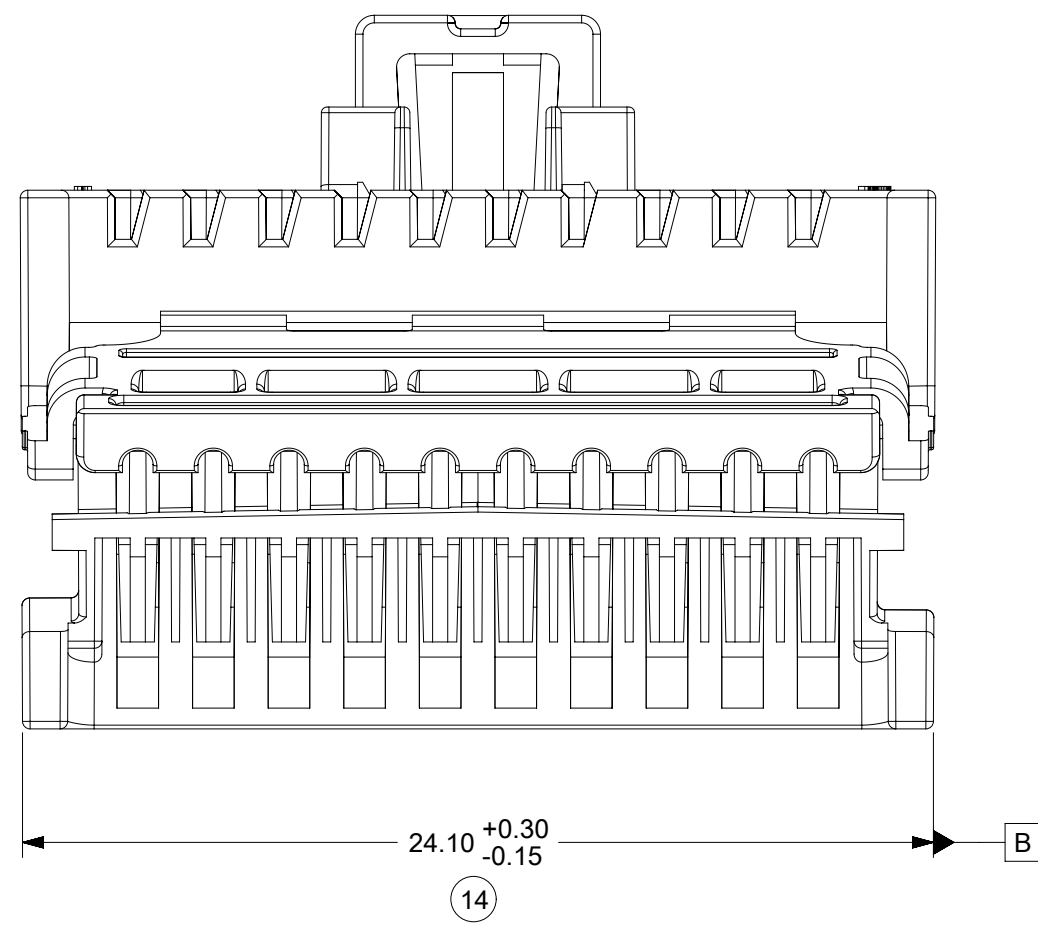
DUAL ROW LOCK BRIDGE OPTION



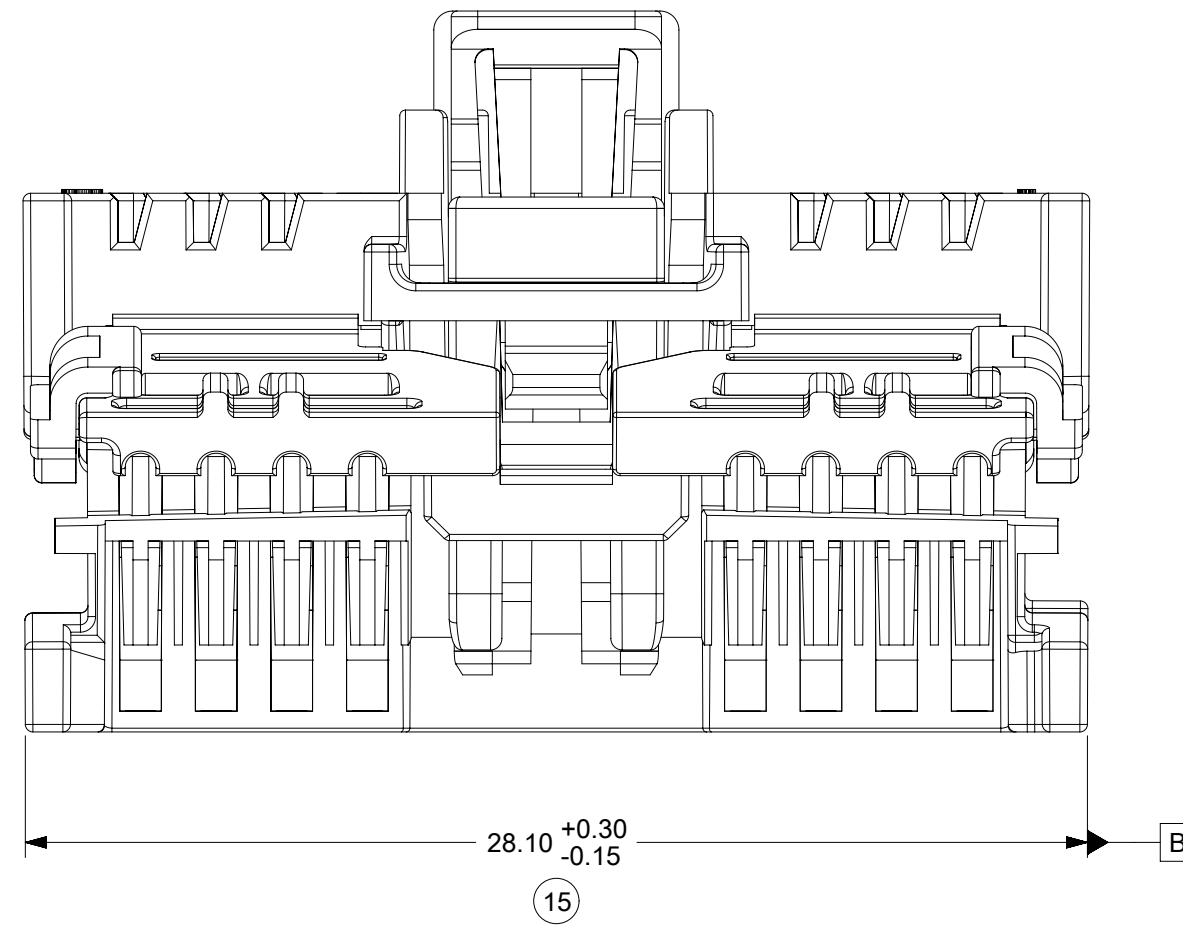
12 CKT USCAR COMPATIBLE  
RECEPTACLE W/CPA



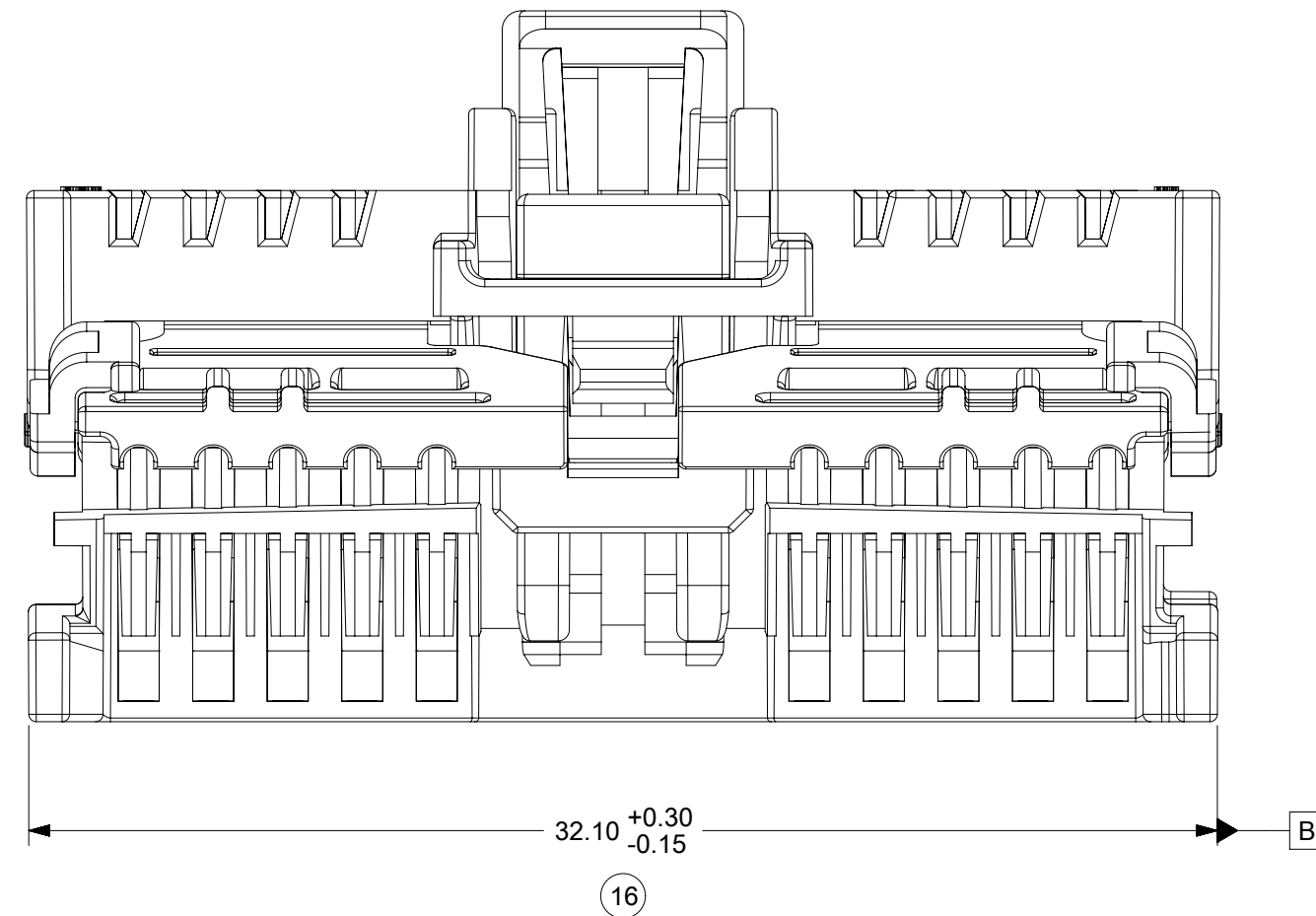
16 CKT USCAR COMPATIBLE  
RECEPTACLE W/CPA



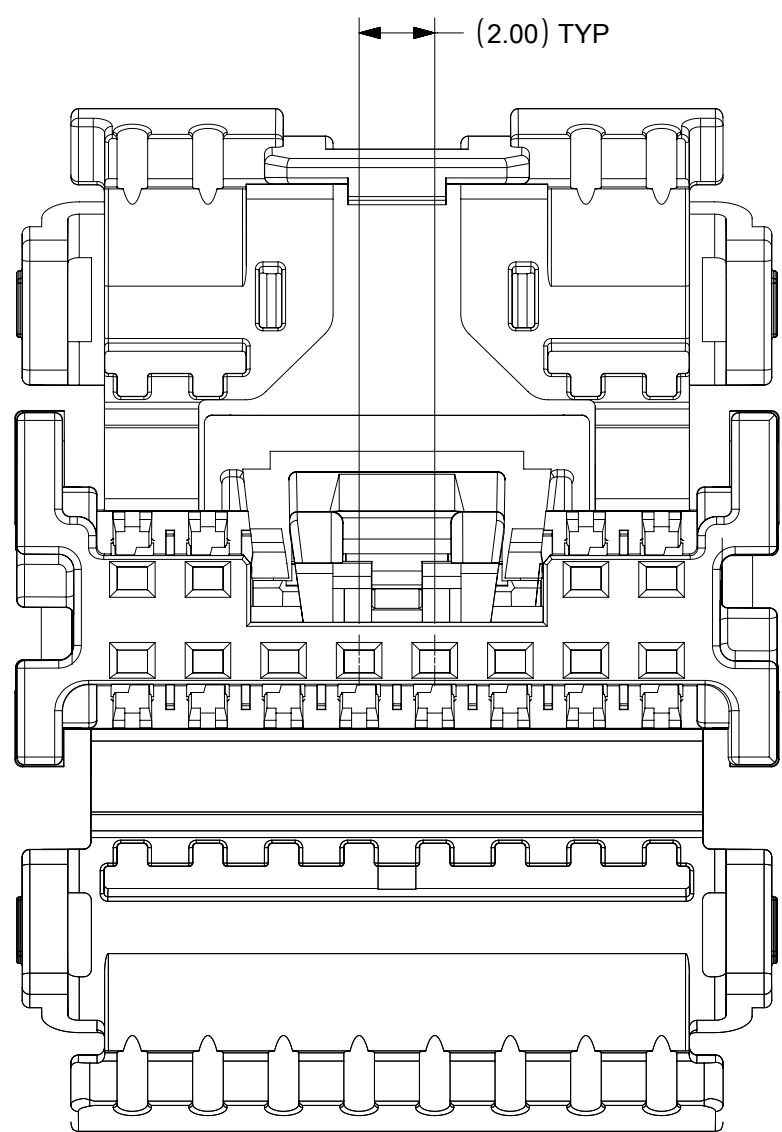
20 CKT USCAR COMPATIBLE  
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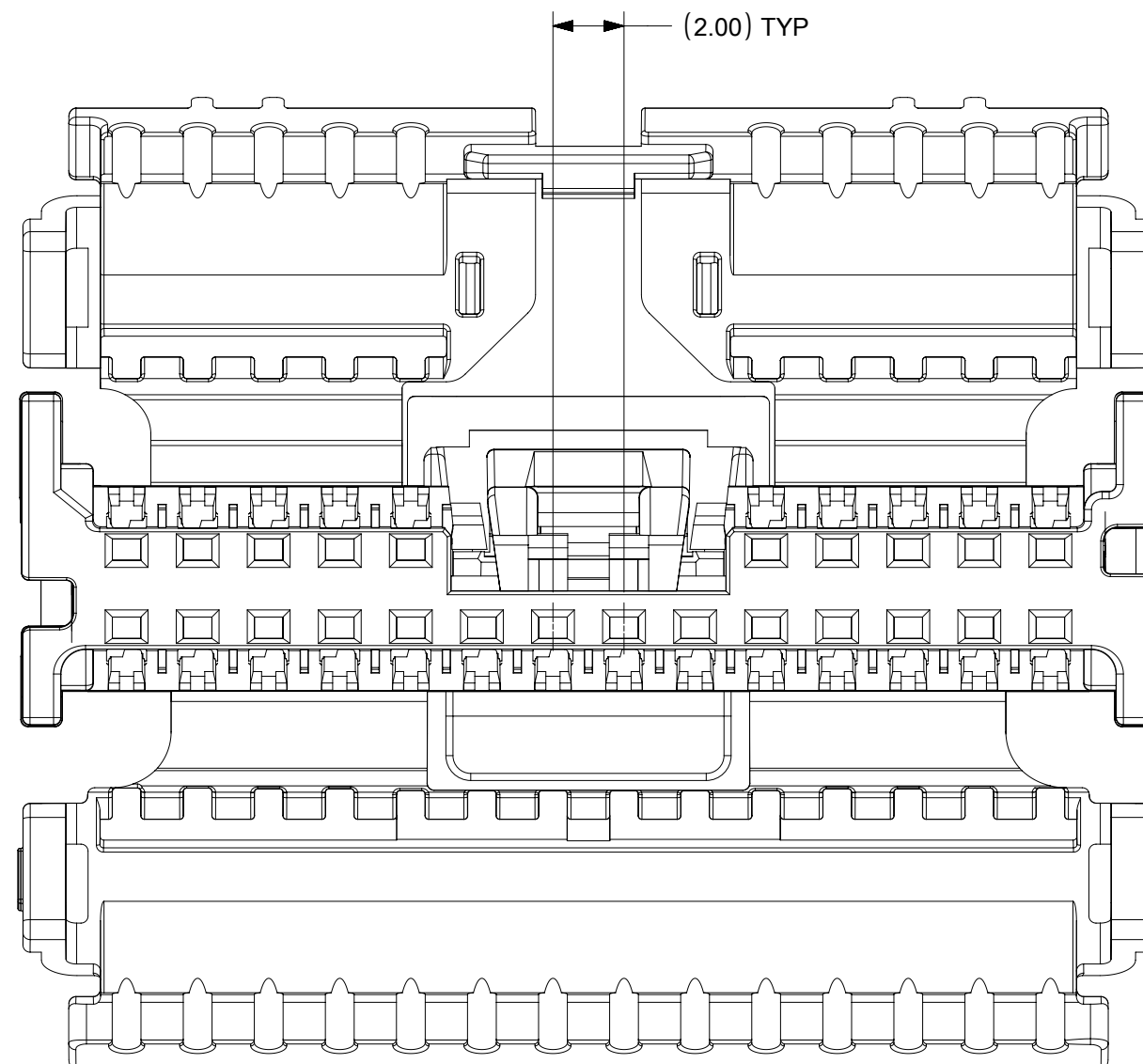
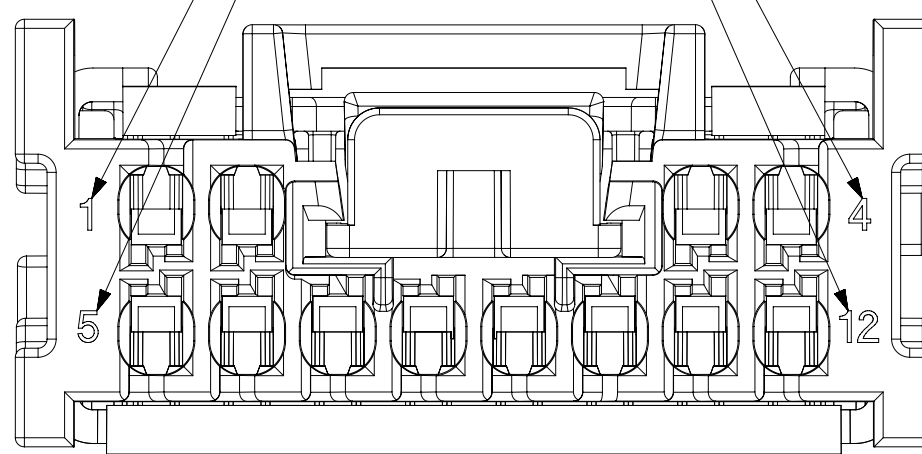
24 CKT USCAR COMPATIBLE  
RECEPTACLE W/CPA



SECTION B-B

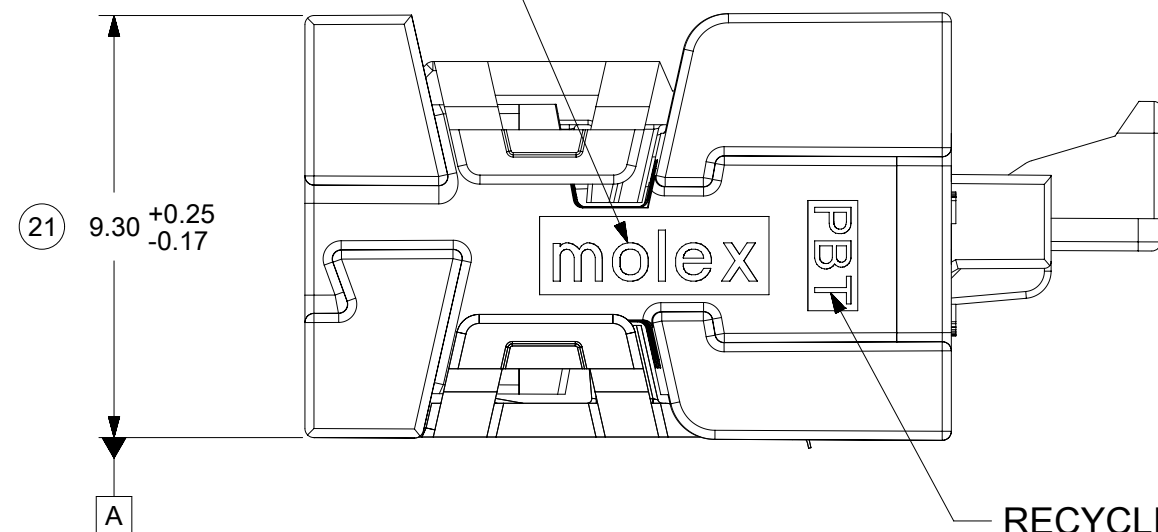


CIRCUIT ID

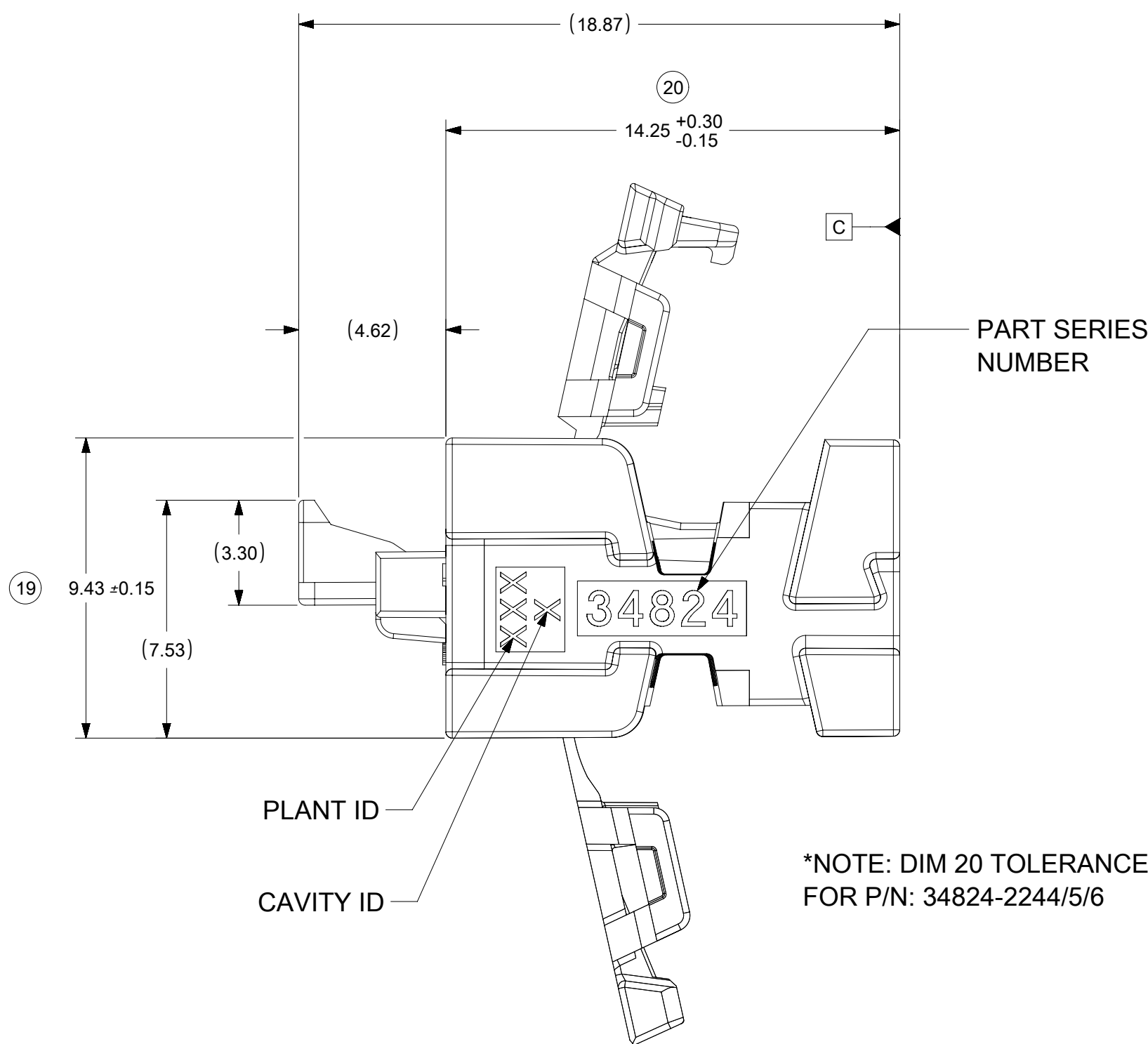


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VENDOR ID



PENDING  
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\*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 |  |                   |  |                                                                                               |  |            |  |                                                                                                                                                                    |  |
|-----------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------|--|-----------------------------------------------------------------------------------------------|--|------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| DIMENSION UNITS |     | SCALE                                                                                                                                         |  | CURRENT REV DESC: |  |                                                                                               |  |            |  |                                                                                                                                                                    |  |
|                 | = 0 | mm                                                                                                                                            |  | 5:1               |  | <div>molex</div> <div>MINI 50 SINGLE/DUAL ROW<br/>CPA-RECEPTACLE ASSEMBLY SALES DRAWING</div> |  |            |  |                                                                                                                                                                    |  |
|                 | = 0 | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                                                                                                      |  |                   |  |                                                                                               |  |            |  |                                                                                                                                                                    |  |
|                 | = 0 | ANGULAR TOL ± 1.0 °                                                                                                                           |  |                   |  |                                                                                               |  |            |  |                                                                                                                                                                    |  |
|                 | = 0 | 4 PLACES                                                                                                                                      |  | ±                 |  |                                                                                               |  |            |  |                                                                                                                                                                    |  |
|                 | = 0 | 3 PLACES                                                                                                                                      |  | ±                 |  | EC NO: 608500                                                                                 |  | 2018/11/30 |  | <div>PRODUCT CUSTOMER DRAWING</div> <div>DOCUMENT NUMBER<br/>SD-34824-003</div> <div>DOC TYPE<br/>PSD</div> <div>DOC PART<br/>001</div> <div>REVISION<br/>M7</div> |  |
|                 | = 0 | 2 PLACES                                                                                                                                      |  | ± 0.1             |  | DRWN: JJOYA                                                                                   |  |            |  |                                                                                                                                                                    |  |
|                 | = 0 | 1 PLACE                                                                                                                                       |  | ± 0.2             |  | CHK'D:                                                                                        |  |            |  |                                                                                                                                                                    |  |
|                 | = 0 | 0 PLACES                                                                                                                                      |  | ±                 |  | APPR:                                                                                         |  |            |  |                                                                                                                                                                    |  |
|                 | = 0 | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                                    |  |                   |  | INITIAL REVISION:                                                                             |  |            |  |                                                                                                                                                                    |  |
|                 | = 0 |                                                                                                                                               |  |                   |  | THIRD ANGLE PROJECTION                                                                        |  |            |  | DRAWING                                                                                                                                                            |  |
|                 | = 0 |                                                                                                                                               |  |                   |  | DRWN: TMACHUGA                                                                                |  | 2013/10/15 |  |                                                                                                                                                                    |  |
|                 | = 0 |                                                                                                                                               |  |                   |  | APPR: RBAUMAN                                                                                 |  | 2013/11/13 |  |                                                                                                                                                                    |  |
|                 | = 0 |                                                                                                                                               |  |                   |  | MATERIAL NUMBER                                                                               |  | CUSTOMER   |  | SHEET NUMBER                                                                                                                                                       |  |
|                 | = 0 |                                                                                                                                               |  |                   |  | A1-SIZE                                                                                       |  | 34824      |  | GENERAL MARKET                                                                                                                                                     |  |
|                 | = 0 |                                                                                                                                               |  |                   |  |                                                                                               |  |            |  | 3 OF 4                                                                                                                                                             |  |

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      | M7       |

| DOCUMENT STATUS | RQ | RELEASE DATE |
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SINGLE ROW ASSEMBLY  
(RECEPTACLE WITH CPA)

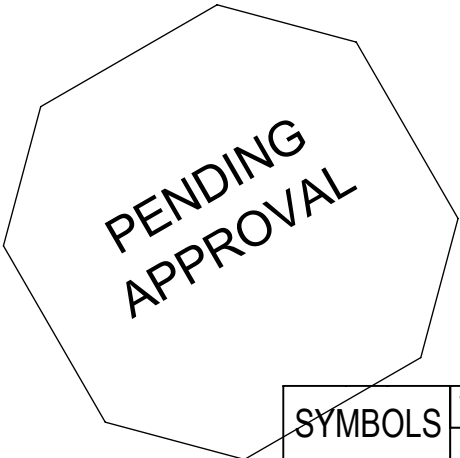
| MOLEX MATERIAL NUMBER<br>BULK PACKAGING<br>PK-31301-538 | GENERAL MOTORS<br>PART NUMBER | CONFIGURATION | MATERIAL<br>TYPE | CIRCUIT | POL | COLOR      | MATING COMPONENT                        |                                |                                         |                                |                                         |                                |
|---------------------------------------------------------|-------------------------------|---------------|------------------|---------|-----|------------|-----------------------------------------|--------------------------------|-----------------------------------------|--------------------------------|-----------------------------------------|--------------------------------|
|                                                         |                               |               |                  |         |     |            | SURFACE MOUNT TECHNOLOGY (SMT) HEADER   |                                | VERTICAL THRU HOLE HEADER               |                                | RIGHT ANGLE THRU HOLE HEADER            |                                |
|                                                         |                               |               |                  |         |     |            | TAPE AND REEL PACKAGING<br>PK-31301-786 | TUBE PACKAGING<br>PK-31301-688 | TAPE AND REEL PACKAGING<br>PK-31301-440 | TUBE PACKAGING<br>PK-31301-688 | TAPE AND REEL PACKAGING<br>PK-31301-440 | TUBE PACKAGING<br>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<br>BULK PACKAGING<br>PK-31301-538                                                                              | GENERAL MOTORS<br>PART NUMBER | CONFIGURATION | MATERIAL<br>TYPE | CIRCUIT | POL | COLOR      | MATING COMPONENT                        |                                |                                         |                                |                                         |                                |
|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------|------------------|---------|-----|------------|-----------------------------------------|--------------------------------|-----------------------------------------|--------------------------------|-----------------------------------------|--------------------------------|
|                                                                                                                                      |                               |               |                  |         |     |            | SURFACE MOUNT TECHNOLOGY (SMT) HEADER   |                                | VERTICAL THRU HOLE HEADER               |                                | RIGHT ANGLE THRU HOLE HEADER            |                                |
|                                                                                                                                      |                               |               |                  |         |     |            | TAPE AND REEL PACKAGING<br>PK-31301-786 | TUBE PACKAGING<br>PK-31301-688 | TAPE AND REEL PACKAGING<br>PK-31301-440 | TUBE PACKAGING<br>PK-31301-688 | TAPE AND REEL PACKAGING<br>PK-31301-440 | TUBE PACKAGING<br>PK-31301-688 |
| 34824-2164                                                                                                                           | N/A                           | USCAR         | ECOPAXX          | 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                     |
| 34824-5124                                                                                                                           | 13507121                      | USCAR         | PBT              | 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                     |
| 34824-2160                                                                                                                           | N/A                           | USCAR         |                  | 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<br>(mm²) | GRIP   |
|-------------------------|--------------------------|--------------|--------------------|--------|
| D-WIND<br>(LEFT PAYOFF) | B-WIND<br>(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  |

|         |                                                                                                                                               |                                                            |                                          |     |                        |                                                                            |         |                  |        |  |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------|-----|------------------------|----------------------------------------------------------------------------|---------|------------------|--------|--|
| SYMBOLS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                            |                                          |     |                        |                                                                            |         |                  |        |  |
|         | DIMENSION UNITS                                                                                                                               |                                                            | SCALE                                    |     | CURRENT REV DESC:      |                                                                            |         | <div>molex</div> |        |  |
|         | mm                                                                                                                                            |                                                            | 1:1                                      |     |                        |                                                                            |         |                  |        |  |
|         | = 0                                                                                                                                           |                                                            | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |     |                        | MINI 50 SINGLE/DUAL ROW<br>CPA-RECEPTACLE ASSEMBLY SALES DRAWING           |         |                  |        |  |
|         | = 0                                                                                                                                           |                                                            |                                          |     |                        |                                                                            |         |                  |        |  |
|         | = 0                                                                                                                                           |                                                            |                                          |     |                        |                                                                            |         |                  |        |  |
|         | = 0                                                                                                                                           |                                                            | ANGULAR TOL ± 1.0 °                      |     |                        | EC NO: 608500<br>DRWN: JJOYA 2018/11/30<br>CHK'D:<br>APPR:                 |         |                  |        |  |
|         | = 0                                                                                                                                           |                                                            | 4 PLACES ±                               |     |                        |                                                                            |         |                  |        |  |
|         | = 0                                                                                                                                           |                                                            | 3 PLACES ±                               |     |                        |                                                                            |         |                  |        |  |
|         | = 0                                                                                                                                           |                                                            | 2 PLACES ± 0.1                           |     |                        | INITIAL REVISION:<br>DRWN: TMACHUGA 2013/10/15<br>APPR: RBAUMAN 2013/11/13 |         |                  |        |  |
| = 0     |                                                                                                                                               | 1 PLACE ± 0.2                                              |                                          |     |                        |                                                                            |         |                  |        |  |
| = 0     |                                                                                                                                               | 0 PLACES ±                                                 |                                          |     |                        |                                                                            |         |                  |        |  |
| = 0     |                                                                                                                                               | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                          |     | THIRD ANGLE PROJECTION |                                                                            | DRAWING |                  | SERIES |  |
| = 0     |                                                                                                                                               | = 0                                                        |                                          | = 0 |                        | A1-SIZE                                                                    |         | 34824            |        |  |
|         |                                                                                                                                               |                                                            |                                          |     |                        |                                                                            |         |                  |        |  |
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