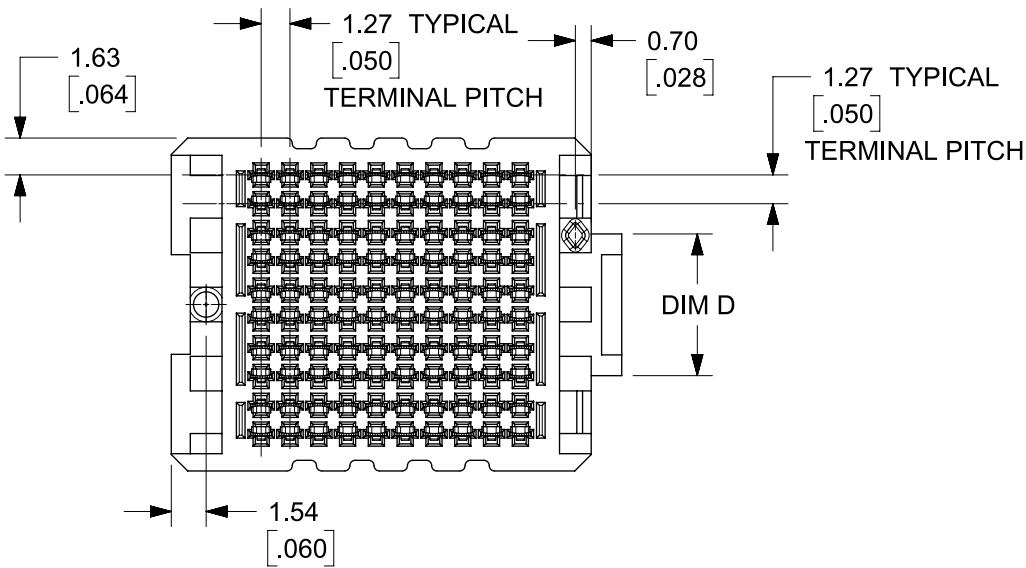
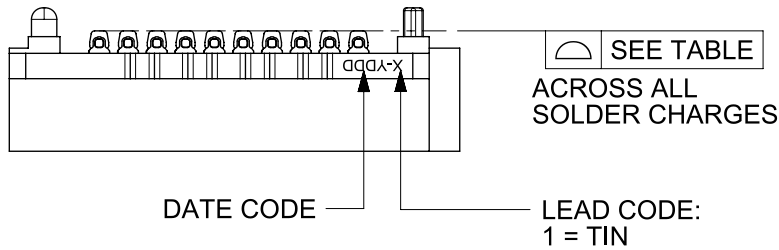
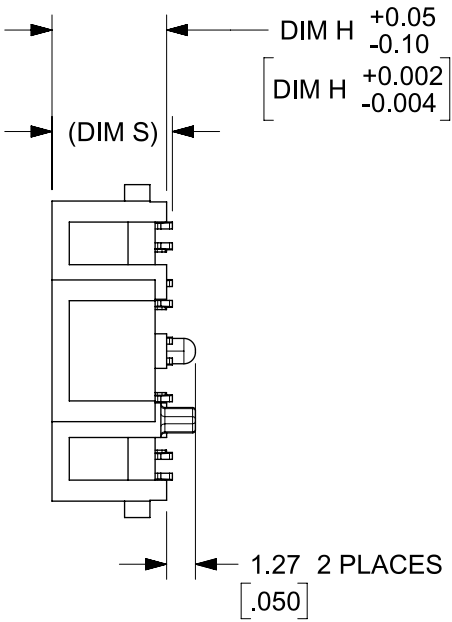
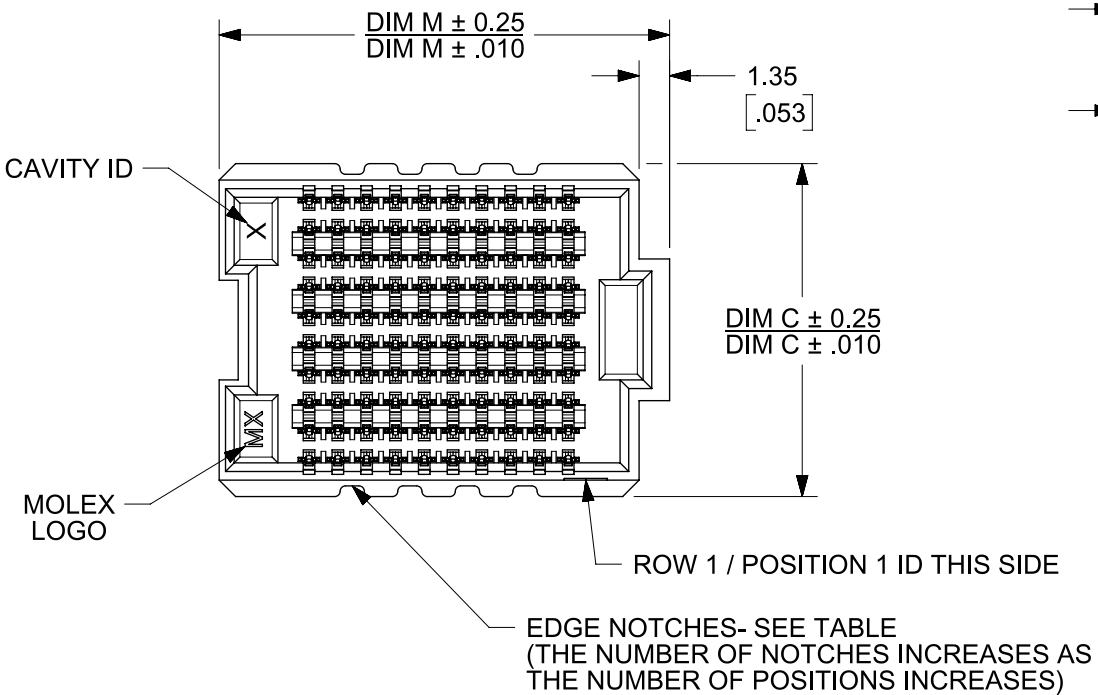




10 ROW  
10 POSITION  
SHOWN  
  
SEE SHEET 3 FOR  
8 ROW GEOMETRY &  
SEE SHEET 4 FOR  
6 ROW GEOMETRY

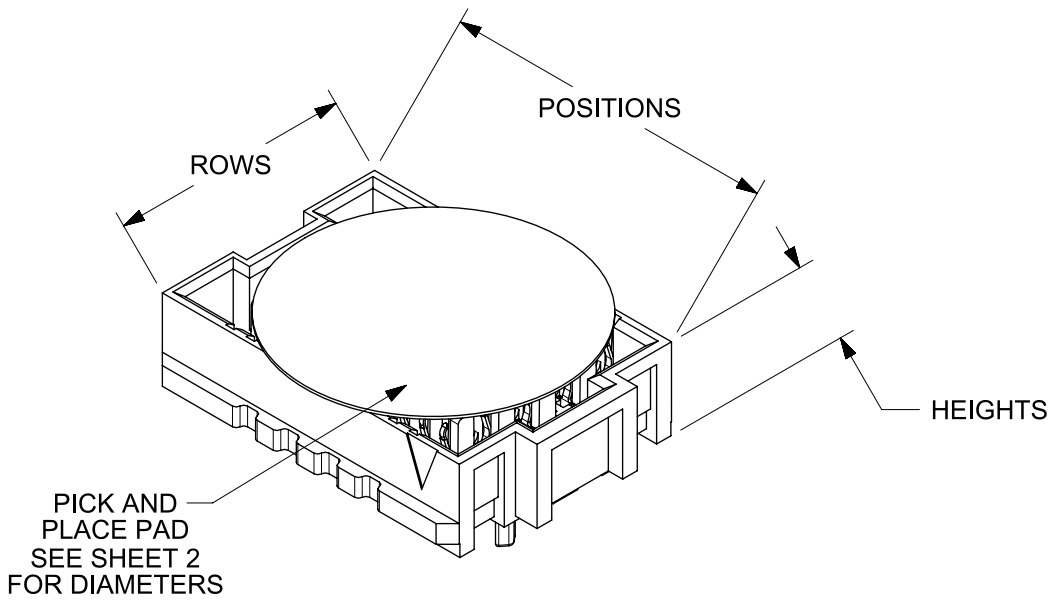


NOTE: THESE CODES MAY BE LOCATED ON EITHER SIDE OF THE HOUSING



- NOTES:
- 1. MATERIAL: HOUSING: GLASS FILLED LCP (LIQUID CRYSTAL POLYMER), UL94V-0, BLACK  
CONTACTS: COPPER ALLOY  
SOLDER CHARGE: 95.5% TIN, 3.8% SILVER, 0.7% COPPER
  - 2. FINISH: SELECT GOLD IN CONTACT AREA, 30 MICROINCH MINIMUM  
SELECT TIN ON TAIL, 50 MICROINCH MINIMUM  
OVERALL NICKEL UNDERPLATE
  - 3. PRODUCT SPECIFICATION: PS-45970-001
  - 4. PACKAGING SPECIFICATION: PK-45971-002 (TAPE AND REEL)
  - 5. MATES WITH SEARAY PLUG ASSEMBLY SERIES 45970
  - 6. APPLICATION SPECIFICATION: AS-45970-001
  - 7. COSMETIC SPECIFICATION: PS-45499-002 CLASS B
  - 8. PART STATUS: CONTACT MOLEX

| POSITIONS | TOTAL NUMBER OF EDGE NOTCHES |           |
|-----------|------------------------------|-----------|
| 10        | 8                            | 0.15/.006 |
| 15        | 14                           |           |
| 20        | 18                           |           |
| 25        | 24                           |           |
| 30        | 28                           |           |
| 35        | 34                           |           |
| 40        | 38                           | 0.23/.009 |
| 45        | 44                           |           |
| 50        | 48                           |           |



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

| DIMENSION UNITS                                      | SCALE  |
|------------------------------------------------------|--------|
| MM/IN                                                | 3:1    |
| GENERAL TOLERANCES (UNLESS SPECIFIED)                |        |
| ANGULAR TOL                                          | ± °    |
| 4 PLACES                                             | ±      |
| 3 PLACES                                             | ±      |
| 2 PLACES                                             | ± 0.25 |
| 1 PLACE                                              | ± 0.38 |
| 0 PLACES                                             | ±      |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |        |

CURRENT REV DESC:

EC NO: 712067  
DRWN: CLHOE01  
CHK'D: HCGOH  
APPR: SHONG  
INITIAL REVISION:  
DRWN: TREGORI  
APPR: JCOMERCI

2022/01/25  
2022/06/27  
2022/07/14  
2005/05/17  
2010/03/05

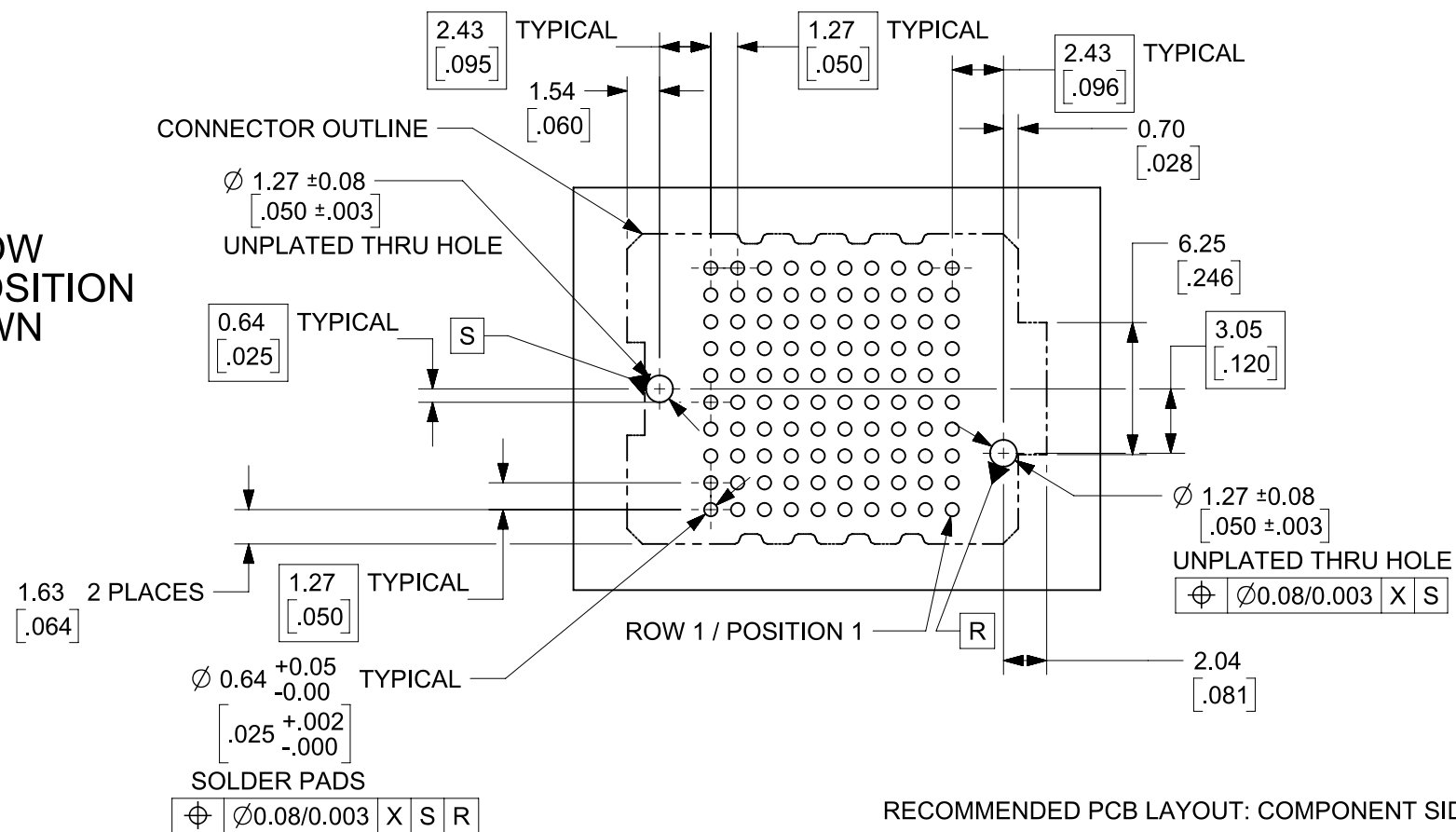
THIRD ANGLE PROJECTION  
DRAWING  
SERIES  
B-SIZE  
45971

**molex**

SEARAY  
RECEPTACLE ASSEMBLY 1.27/.050 CENTERS

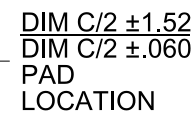
PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER      | DOC TYPE       | DOC PART     | REVISION |
|----------------------|----------------|--------------|----------|
| SD-45971-001         | PSD            | 001          | AA       |
| MATERIAL NUMBER      | CUSTOMER       | SHEET NUMBER |          |
| SEE TABLE SHEET NO 5 | GENERAL MARKET | 1 OF 5       |          |

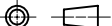


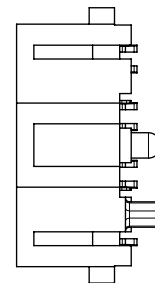
0.13  
[.005]  
MINIMUM SOLDER  
PASTE THICKNESS

X



10 ROW OPTION

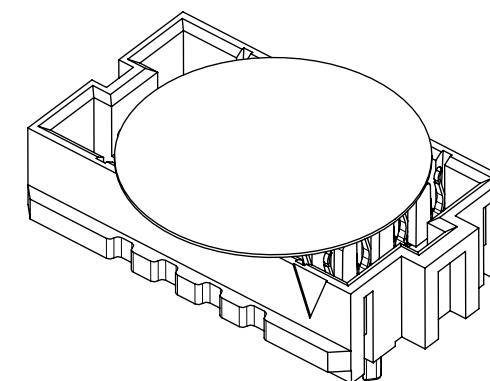
|                                                                                                                                               |  |                                                            |  |                                                                                                                                                                                                        |  |                          |                                                                                                                                                                                                                                                                                                |                        |  |                                         |  |                            |  |                        |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--|-----------------------------------------|--|----------------------------|--|------------------------|--|
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |                                                            |  |                                                                                                                                                                                                        |  |                          |                                                                                                                                                                                                                                                                                                |                        |  |                                         |  |                            |  |                        |  |
| DIMENSION UNITS<br><b>MM/IN</b>                                                                                                               |  | SCALE<br><b>3:1</b>                                        |  | CURRENT REV DESC:<br><br>EC NO: 712067<br>DRWN: CLHOE01 2022/01/25<br>CHK'D: HCGOH 2022/06/27<br>APPR: SHONG 2022/07/14<br>INITIAL REVISION:<br>DRWN: TGREGORI 2005/05/17<br>APPR: JCOMERCI 2010/03/05 |  |                          | <div style="text-align: center;"><b>molex</b></div> <div style="text-align: center;">SEARAY<br/>RECEPTACLE ASSEMBLY 1.27/.050 CENTERS</div>                                                                                                                                                    |                        |  |                                         |  |                            |  |                        |  |
| GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                                                                                                      |  | ANGULAR TOL    ±    °                                      |  |                                                                                                                                                                                                        |  |                          |                                                                                                                                                                                                                                                                                                |                        |  |                                         |  |                            |  |                        |  |
| 4 PLACES    ±                                                                                                                                 |  | 3 PLACES    ±                                              |  |                                                                                                                                                                                                        |  |                          | <div style="text-align: center;">PRODUCT CUSTOMER DRAWING</div> <div style="display: flex; justify-content: space-between;"> <div>DOCUMENT NUMBER<br/><b>SD-45971-001</b></div> <div>DOC TYPE<br/><b>PSD</b></div> <div>DOC PART<br/><b>001</b></div> <div>REVISION<br/><b>AA</b></div> </div> |                        |  |                                         |  |                            |  |                        |  |
| 2 PLACES    ±    0.25                                                                                                                         |  | 1 PLACE    ±    0.38                                       |  |                                                                                                                                                                                                        |  |                          |                                                                                                                                                                                                                                                                                                |                        |  |                                         |  |                            |  |                        |  |
| 0 PLACES    ±                                                                                                                                 |  | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |  | THIRD ANGLE PROJECTION<br>                                                                                        |  | DRAWING<br><b>B-SIZE</b> |                                                                                                                                                                                                                                                                                                | SERIES<br><b>45971</b> |  | MATERIAL NUMBER<br>SEE TABLE SHEET NO 5 |  | CUSTOMER<br>GENERAL MARKET |  | SHEET NUMBER<br>2 OF 5 |  |



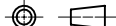
A cross-sectional diagram of the X-YDDD structure. It shows a substrate with a series of vertical pillars. A layer labeled 'X-YDDD' is positioned above the pillars. A hatched triangular region is shown above the 'X-YDDD' layer, with arrows pointing to it from the label 'X-YDDD'.

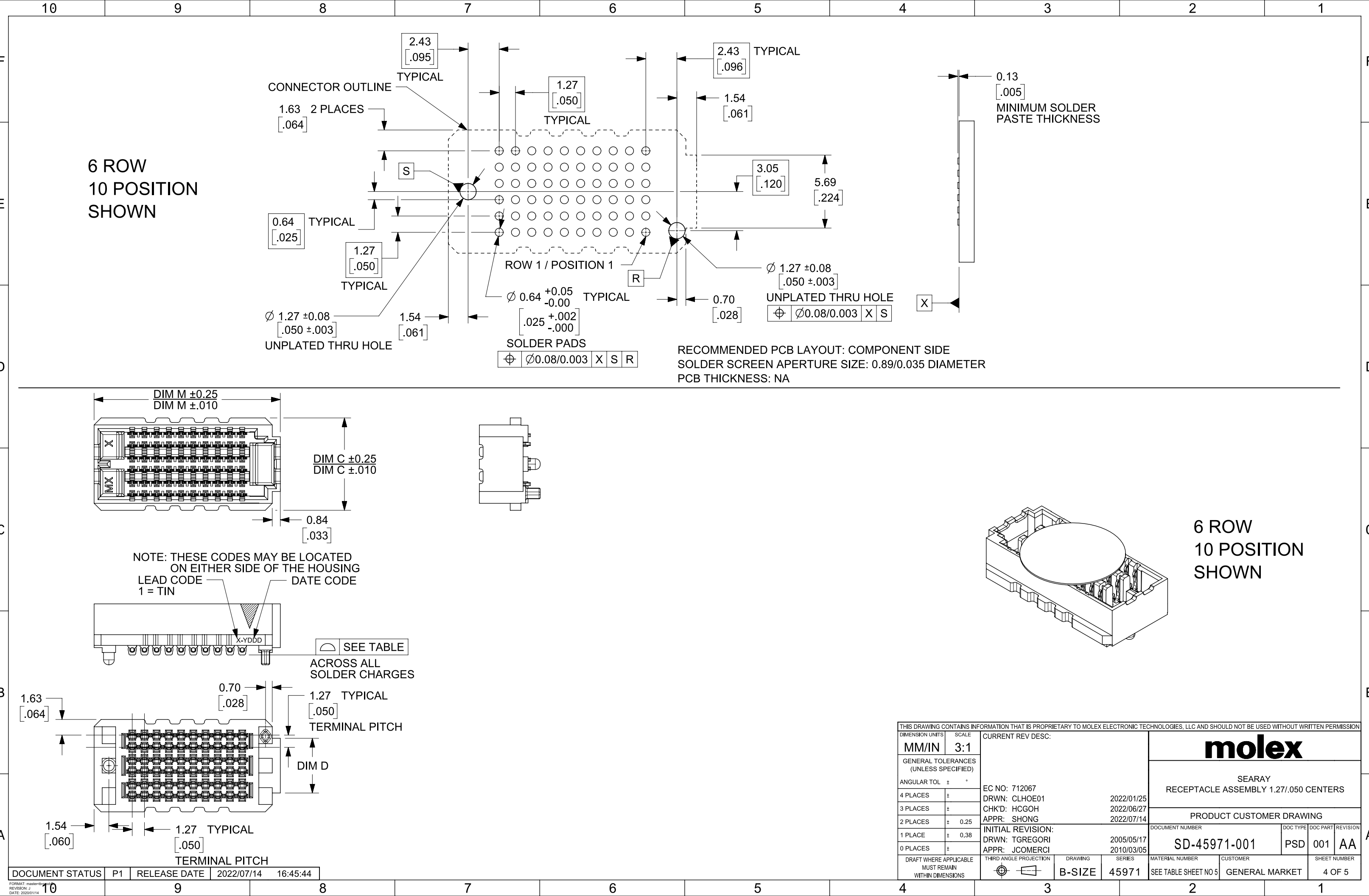
|                                                                                   |           |
|-----------------------------------------------------------------------------------|-----------|
|  | SEE TABLE |
|-----------------------------------------------------------------------------------|-----------|

ACROSS ALL  
SOLDER CHARGES

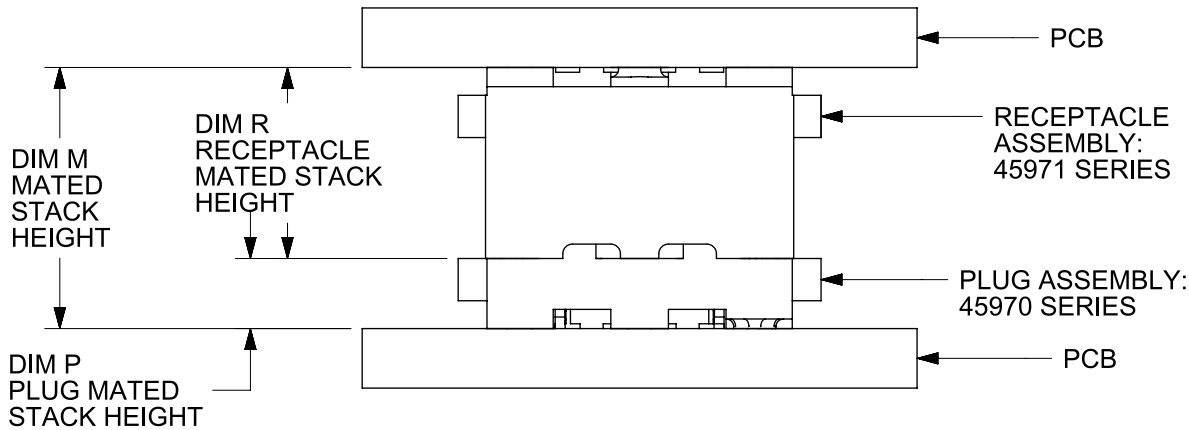


8 ROW 10 POSITION SHOWN

|                                                                                                                                               |  |        |  |                                                                                       |  |         |                                                                                             |                      |          |                                                 |          |              |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--|--------|--|---------------------------------------------------------------------------------------|--|---------|---------------------------------------------------------------------------------------------|----------------------|----------|-------------------------------------------------|----------|--------------|--|
| 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/IN                                                                                                                                         |  | 3:1    |  |                                                                                       |  |         |                                                                                             |                      |          |                                                 |          |              |  |
| GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                                                                                                      |  |        |  |                                                                                       |  |         |                                                                                             |                      |          |                                                 |          |              |  |
| ANGULAR TOL                                                                                                                                   |  | ± °    |  |                                                                                       |  |         |                                                                                             |                      |          |                                                 |          |              |  |
| 4 PLACES                                                                                                                                      |  | ±      |  |                                                                                       |  |         | EC NO: 712067<br>DRWN: CLHOE012022/01/25<br>CHK'D: HCGOH2022/06/27<br>APPR: SHONG2022/07/14 |                      |          | SEARAY<br>RECEPTACLE ASSEMBLY 1.27/.050 CENTERS |          |              |  |
| 3 PLACES                                                                                                                                      |  | ±      |  |                                                                                       |  |         |                                                                                             |                      |          |                                                 |          |              |  |
| 2 PLACES                                                                                                                                      |  | ± 0.25 |  |                                                                                       |  |         |                                                                                             |                      |          |                                                 |          |              |  |
| 1 PLACE                                                                                                                                       |  | ± 0.38 |  | INITIAL REVISION:<br>DRWN: TREGORCI2005/05/17<br>APPR: JCOMERCI2010/03/05             |  |         | DOCUMENT NUMBER                                                                             |                      | DOC TYPE | DOC PART                                        | REVISION |              |  |
| 0 PLACES                                                                                                                                      |  | ±      |  |                                                                                       |  |         | SD-45971-001                                                                                |                      | PSD      | 001                                             | AA       |              |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                                    |  |        |  | THIRD ANGLE PROJECTION                                                                |  | DRAWING | SERIES                                                                                      | MATERIAL NUMBER      |          | CUSTOMER                                        |          | SHEET NUMBER |  |
|                                                                                                                                               |  |        |  |  |  | B-SIZE  | 45971                                                                                       | SEE TABLE SHEET NO 5 |          | GENERAL MARKET                                  |          | 3 OF 5       |  |



| ROWS: 6  DIMENSION C = 9.60/.378  DIMENSION D = 5.69/.224 |             |             |             |             |             |             |
|-----------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| DIM R: (REF)                                              |             | 5.0 mm      | 6.0 mm      | 6.5 mm      | 7.5 mm      | 8.0 mm      |
| DIM H:                                                    |             | 5.05/.199   | 6.05/.238   | 6.55/.258   | 7.54/.297   | 8.05/.317   |
| DIM S:                                                    |             | 5.31/.209   | 6.30/.248   | 6.81/.268   | 7.80/.307   | 8.31/.327   |
| POSITION                                                  | DIM M       | MATERIAL NO | MATERIAL NO | MATERIAL NO | MATERIAL NO | MATERIAL NO |
| 10                                                        | 19.35/0.762 |             |             |             |             |             |
| 20                                                        | 32.05/1.262 |             |             |             |             |             |
| 30                                                        | 44.75/1.762 | 45971-3165  |             |             |             |             |
| 40                                                        | 57.45/2.262 |             |             |             |             |             |
| 50                                                        | 70.15/2.762 | 45971-5165  |             |             |             |             |
| 15                                                        | 25.70/1.012 |             |             |             |             |             |
| 25                                                        | 38.40/1.512 |             |             |             |             |             |
| 35                                                        | 51.10/2.012 |             |             |             |             |             |
| 45                                                        | 63.80/2.512 |             |             |             |             |             |



STACK HEIGHTS  
GIVEN IN MILLIMETERS (MM) FOR REFERENCE ONLY

|                            |       | DIM R<br>RECEPTACLE STACK HEIGHT |              |                         |              |                         |              |                         |              |                         |              |
|----------------------------|-------|----------------------------------|--------------|-------------------------|--------------|-------------------------|--------------|-------------------------|--------------|-------------------------|--------------|
|                            |       | 5.0                              |              | 6.0                     |              | 6.5                     |              | 7.5                     |              | 8.0                     |              |
|                            |       | DIM M<br>FULLY<br>MATED          | DIM M<br>MAX | DIM M<br>FULLY<br>MATED | DIM M<br>MAX | DIM M<br>FULLY<br>MATED | DIM M<br>MAX | DIM M<br>FULLY<br>MATED | DIM M<br>MAX | DIM M<br>FULLY<br>MATED | DIM M<br>MAX |
| DIM P<br>PLUG STACK HEIGHT | 2.0   | 7.00                             | 7.74         | 8.00                    | 8.74         | 8.50                    | 9.24         | 9.50                    | 10.24        | 10.00                   | 10.74        |
|                            | 2.5   | 7.50                             | 8.24         | 8.50                    | 9.24         | 9.00                    | 9.74         | 10.00                   | 10.74        | 10.50                   | 11.24        |
|                            | 3.0   | 8.00                             | 8.74         | 9.00                    | 9.74         | 9.50                    | 10.24        | 10.50                   | 11.24        | 11.00                   | 11.74        |
|                            | 3.5   | 8.50                             | 9.24         | 9.50                    | 10.24        | 10.00                   | 10.74        | 11.00                   | 11.74        | 11.50                   | 12.24        |
|                            | 4.5   | 9.50                             | 10.24        | 10.50                   | 11.24        | 11.00                   | 11.74        | 12.00                   | 12.74        | 12.50                   | 13.24        |
|                            | 5.0   | 10.00                            | 10.74        | 11.00                   | 11.74        | 11.50                   | 12.24        | 12.50                   | 13.24        | 13.00                   | 13.74        |
|                            | 7.0   | 12.00                            | 12.74        | 13.00                   | 13.74        | 13.50                   | 14.24        | 14.50                   | 15.24        | 15.00                   | 15.74        |
| 9.0                        | 14.00 | 14.74                            | 15.00        | 15.74                   | 15.50        | 16.24                   | 16.50        | 17.24                   | 17.00        | 17.74                   |              |

MATED STACK HEIGHTS  
GIVEN IN MILLIMETERS (mm) FOR REFERENCE ONLY

| ROWS: 8  DIMENSION C = 12.14/.478  DIMENSION D = 3.71/.146 |             |             |             |             |             |             |
|------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| DIM R: (REF)                                               |             | 5.0 mm      | 6.0 mm      | 6.5 mm      | 7.5 mm      | 8.0 mm      |
| DIM H:                                                     |             | 5.05/.199   | 6.05/.238   | 6.55/.258   | 7.54/.297   | 8.05/.317   |
| DIM S:                                                     |             | 5.31/.209   | 6.30/.248   | 6.81/.268   | 7.80/.307   | 8.31/.327   |
| POSITION                                                   | DIM M       | MATERIAL NO | MATERIAL NO | MATERIAL NO | MATERIAL NO | MATERIAL NO |
| 10                                                         | 19.88/0.784 |             |             |             |             |             |
| 20                                                         | 32.58/1.284 | 45971-2185  |             | 45971-2385  |             |             |
| 30                                                         | 45.28/1.784 | 45971-3185  |             | 45971-3385  |             |             |
| 40                                                         | 57.98/2.284 | 45971-4185  |             | 45971-4385  |             |             |
| 50                                                         | 70.68/2.784 | 45971-5185  |             |             |             |             |
| 15                                                         | 26.23/1.034 |             |             |             |             |             |
| 25                                                         | 38.93/1.534 |             |             |             |             |             |
| 35                                                         | 51.63/2.034 |             |             |             |             |             |
| 45                                                         | 64.33/2.534 |             |             |             |             |             |

| ROWS: 10  DIMENSION C = 14.68/.578  DIMENSION D = 6.25/.246 |             |             |             |             |             |             |
|-------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| DIM R: (REF)                                                |             | 5.0 mm      | 6.0 mm      | 6.5 mm      | 7.5 mm      | 8.0 mm      |
| DIM H:                                                      |             | 5.05/.199   | 6.05/.238   | 6.55/.258   | 7.54/.297   | 8.05/.317   |
| DIM S:                                                      |             | 5.31/.209   | 6.30/.248   | 6.81/.268   | 7.80/.307   | 8.31/.327   |
| POSITION                                                    | DIM M       | MATERIAL NO | MATERIAL NO | MATERIAL NO | MATERIAL NO | MATERIAL NO |
| 10                                                          | 19.88/0.784 | 45971-1115  | 45971-1215  | 45971-1315  | 45971-1415  | 45971-1515  |
| 20                                                          | 32.58/1.284 | 45971-2115  | 45971-2215  | 45971-2315  | 45971-2415  | 45971-2515  |
| 30                                                          | 45.28/1.784 | 45971-3115  | 45971-3215  | 45971-3315  | 45971-3415  | 45971-3515  |
| 40                                                          | 57.98/2.284 | 45971-4115  | 45971-4215  | 45971-4315  | 45971-4415  | 45971-4515  |
| 50                                                          | 70.68/2.784 | 45971-5115  | 45971-5215  | 45971-5315  | 45971-5415  | 45971-5515  |
| 15                                                          | 26.23/1.034 | 45971-6115  | 45971-6215  | 45971-6315  | 45971-6415  | 45971-6515  |
| 25                                                          | 38.93/1.534 | 45971-7115  | 45971-7215  | 45971-7315  | 45971-7415  | 45971-7515  |
| 35                                                          | 51.63/2.034 | 45971-8115  | 45971-8215  | 45971-8315  | 45971-8415  | 45971-8515  |
| 45                                                          | 64.33/2.534 | 45971-9115  | 45971-9215  | 45971-9315  | 45971-9415  | 45971-9515  |

MATING STACK HEIGHTS (DIMENSION R)  
GIVEN IN MILLIMETERS (mm) FOR REFERENCE ONLY

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|                                                      |        |                                                                                                                        |  |                                                                    |        |                                                 |  |  |
|------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------|--------|-------------------------------------------------|--|--|
| DIMENSION UNITS                                      | SCALE  | CURRENT REV DESC:                                                                                                      |  | <div>molex</div>                                                   |        |                                                 |  |  |
| MM/IN                                                | 3:1    |                                                                                                                        |  |                                                                    |        |                                                 |  |  |
| GENERAL TOLERANCES (UNLESS SPECIFIED)                |        | EC NO: 712067<br>DRWN: CLHOE01<br>CHK'D: HCGOH<br>APPR: SHONG<br>INITIAL REVISION:<br>DRWN: TGREGORI<br>APPR: JCOMERCI |  | 2022/01/25<br>2022/06/27<br>2022/07/14<br>2005/05/17<br>2010/03/05 |        | SEARAY<br>RECEPTACLE ASSEMBLY 1.27/.050 CENTERS |  |  |
| ANGULAR TOL                                          | ± °    |                                                                                                                        |  |                                                                    |        | PRODUCT CUSTOMER DRAWING                        |  |  |
| 4 PLACES                                             | ±      |                                                                                                                        |  |                                                                    |        |                                                 |  |  |
| 3 PLACES                                             | ±      |                                                                                                                        |  |                                                                    |        |                                                 |  |  |
| 2 PLACES                                             | ± 0.25 |                                                                                                                        |  |                                                                    |        |                                                 |  |  |
| 1 PLACE                                              | ± 0.38 | THIRD ANGLE PROJECTION                                                                                                 |  | DRAWING                                                            | SERIES | DOCUMENT NUMBER                                 |  |  |
| 0 PLACES                                             | ±      |                                                                                                                        |  |                                                                    |        | SD-45971-001                                    |  |  |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |        | B-SIZE                                                                                                                 |  | 45971                                                              |        | MATERIAL NUMBER                                 |  |  |
|                                                      |        |                                                                                                                        |  |                                                                    |        | CUSTOMER                                        |  |  |
|                                                      |        |                                                                                                                        |  |                                                                    |        | SEE TABLE SHEET NO 5                            |  |  |
|                                                      |        |                                                                                                                        |  |                                                                    |        | GENERAL MARKET                                  |  |  |
|                                                      |        |                                                                                                                        |  |                                                                    |        | SHEET NUMBER                                    |  |  |
|                                                      |        |                                                                                                                        |  |                                                                    |        | 5 OF 5                                          |  |  |