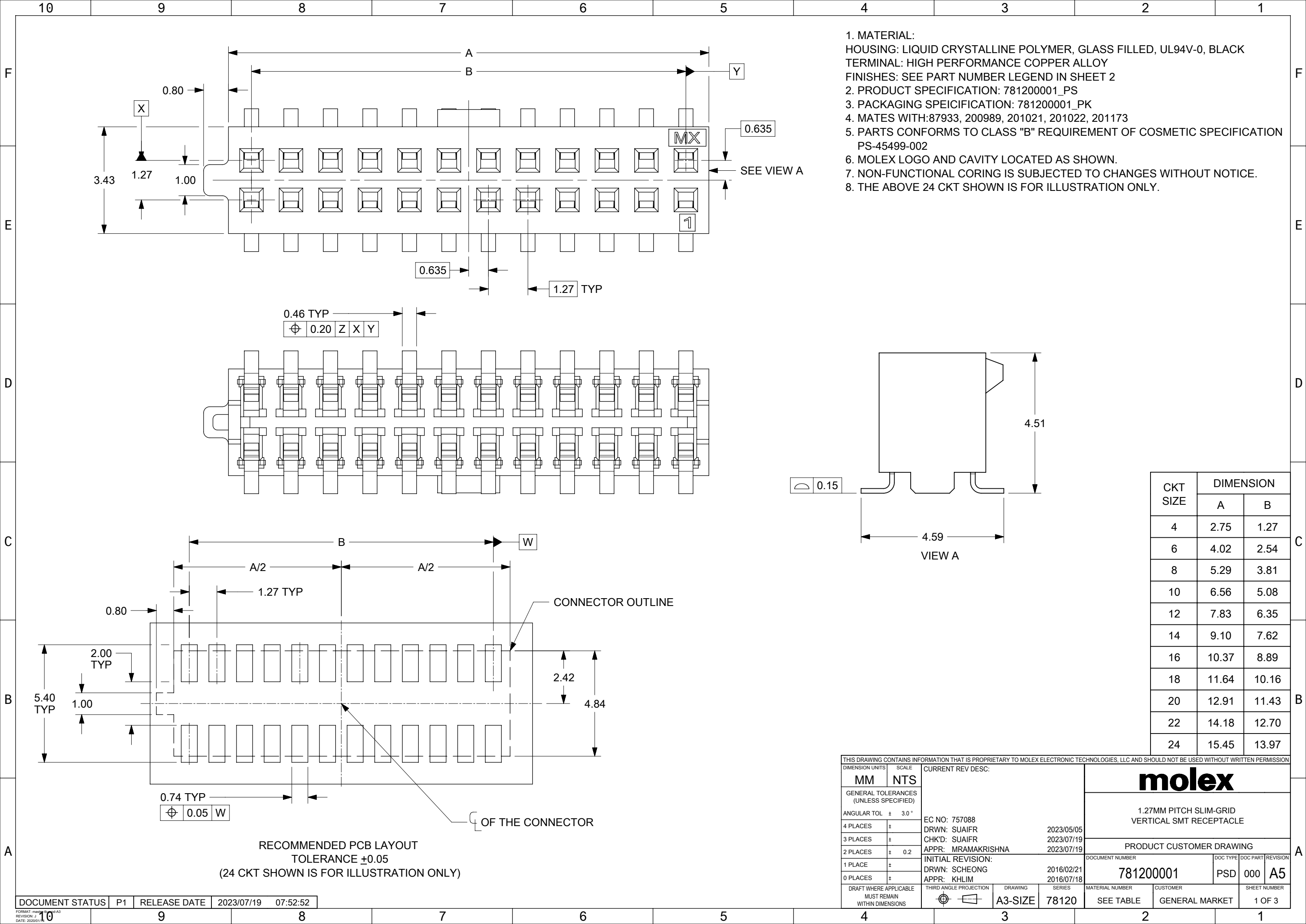
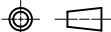




1. MATERIAL:  
HOUSING: LIQUID CRYSTALLINE POLYMER, GLASS FILLED, UL94V-0, BLACK  
TERMINAL: HIGH PERFORMANCE COPPER ALLOY  
FINISHES: SEE PART NUMBER LEGEND IN SHEET 2  
2. PRODUCT SPECIFICATION: 781200001\_PS  
3. PACKAGING SPECIFICATION: 781200001\_PK  
4. MATES WITH: 87933, 200989, 201021, 201022, 201173  
5. PARTS CONFORMS TO CLASS "B" REQUIREMENT OF COSMETIC SPECIFICATION PS-45499-002  
6. MOLEX LOGO AND CAVITY LOCATED AS SHOWN.  
7. NON-FUNCTIONAL CORING IS SUBJECTED TO CHANGES WITHOUT NOTICE.  
8. THE ABOVE 24 CKT SHOWN IS FOR ILLUSTRATION ONLY.

| CKT<br>SIZE | DIMENSION |       |
|-------------|-----------|-------|
|             | A         | B     |
| 4           | 2.75      | 1.27  |
| 6           | 4.02      | 2.54  |
| 8           | 5.29      | 3.81  |
| 10          | 6.56      | 5.08  |
| 12          | 7.83      | 6.35  |
| 14          | 9.10      | 7.62  |
| 16          | 10.37     | 8.89  |
| 18          | 11.64     | 10.16 |
| 20          | 12.91     | 11.43 |
| 22          | 14.18     | 12.70 |
| 24          | 15.45     | 13.97 |

|                                                                                                                                               |  |       |  |                                                                         |  |  |                                                                                                                    |  |                        |          |           |                 |          |              |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--|-------|--|-------------------------------------------------------------------------|--|--|--------------------------------------------------------------------------------------------------------------------|--|------------------------|----------|-----------|-----------------|----------|--------------|--|
| 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>1.27MM PITCH SLIM-GRID<br/>VERTICAL SMT RECEPTACLE</div> <div>PRODUCT CUSTOMER DRAWING</div> |  |                        |          |           |                 |          |              |  |
| MM                                                                                                                                            |  | NTS   |  |                                                                         |  |  |                                                                                                                    |  |                        |          |           |                 |          |              |  |
| GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                                                                                                      |  |       |  |                                                                         |  |  |                                                                                                                    |  |                        |          |           |                 |          |              |  |
| ANGULAR TOL                                                                                                                                   |  | ±     |  | 3.0 °                                                                   |  |  |                                                                                                                    |  |                        |          |           |                 |          |              |  |
| 4 PLACES                                                                                                                                      |  | ±     |  |                                                                         |  |  |                                                                                                                    |  |                        |          |           |                 |          |              |  |
| 3 PLACES                                                                                                                                      |  | ±     |  |                                                                         |  |  |                                                                                                                    |  |                        |          |           |                 |          |              |  |
| 2 PLACES                                                                                                                                      |  | ±     |  | 0.2                                                                     |  |  |                                                                                                                    |  |                        |          |           |                 |          |              |  |
| 1 PLACE                                                                                                                                       |  | ±     |  |                                                                         |  |  |                                                                                                                    |  |                        |          |           |                 |          |              |  |
| 0 PLACES                                                                                                                                      |  | ±     |  |                                                                         |  |  |                                                                                                                    |  |                        |          |           |                 |          |              |  |
| EC NO: 757088<br>DRWN: SUAIFR 2023/05/05<br>CHK'D: SUAIFR 2023/07/19<br>APPR: MRAMAKRISHNA 2023/07/19                                         |  |       |  | INITIAL REVISION:<br>DRWN: SCHEONG 2016/02/21<br>APPR: KHLIM 2016/07/18 |  |  | DOCUMENT NUMBER                                                                                                    |  | DOC TYPE               | DOC PART | REVISION  |                 |          |              |  |
|                                                                                                                                               |  |       |  |                                                                         |  |  | 781200001                                                                                                          |  | PSD                    | 000      | A5        |                 |          |              |  |
|                                                                                                                                               |  |       |  |                                                                         |  |  | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                         |  | THIRD ANGLE PROJECTION | DRAWING  | SERIES    | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |  |
|                                                                                                                                               |  |       |  |                                                                         |  |  |                               |  | A3-SIZE                | 78120    | SEE TABLE | GENERAL MARKET  | 1 OF 3   |              |  |

|                 |    |              |            |          |
|-----------------|----|--------------|------------|----------|
| DOCUMENT STATUS | P1 | RELEASE DATE | 2023/07/19 | 07:52:52 |
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| CKT SIZE | ASSEMBLY P/N WITHOUT KAPTON TAPE IN TUBE | ASSEMBLY P/N WITH KAPTON TAPE IN TUBE (TOOLED) | ASSEMBLY P/N WITH KAPTON TAPE IN T&R | TAPE & REEL TOOLED |
|----------|------------------------------------------|------------------------------------------------|--------------------------------------|--------------------|
| 4        | 78120-0407                               | 78120-0417                                     | 78120-0427                           | N                  |
|          | 78120-0408                               | 78120-0418                                     | 78120-0428                           |                    |
|          | 78120-0409                               | 78120-0419                                     | 78120-0429                           |                    |
| 6        | 78120-0607                               | 78120-0617                                     | 78120-0627                           | Y                  |
|          | 78120-0608                               | 78120-0618                                     | 78120-0628                           |                    |
|          | 78120-0609                               | 78120-0619                                     | 78120-0629                           |                    |
| 8        | 78120-0807                               | 78120-0817                                     | 78120-0827                           | Y                  |
|          | 78120-0808                               | 78120-0818                                     | 78120-0828                           |                    |
|          | 78120-0809                               | 78120-0819                                     | 78120-0829                           |                    |
| 10       | 78120-1007                               | 78120-1017                                     | 78120-1027                           | Y                  |
|          | 78120-1008                               | 78120-1018                                     | 78120-1028                           |                    |
|          | 78120-1009                               | 78120-1019                                     | 78120-1029                           |                    |
| 12       | 78120-1207                               | 78120-1217                                     | 78120-1227                           | N                  |
|          | 78120-1208                               | 78120-1218                                     | 78120-1228                           |                    |
|          | 78120-1209                               | 78120-1219                                     | 78120-1229                           |                    |
| 14       | 78120-1407                               | 78120-1417                                     | 78120-1427                           | Y                  |
|          | 78120-1408                               | 78120-1418                                     | 78120-1428                           |                    |
|          | 78120-1409                               | 78120-1419                                     | 78120-1429                           |                    |
| 16       | 78120-1607                               | 78120-1617                                     | 78120-1627                           | N                  |
|          | 78120-1608                               | 78120-1618                                     | 78120-1628                           |                    |
|          | 78120-1609                               | 78120-1619                                     | 78120-1629                           |                    |
| 18       | 78120-1807                               | 78120-1817                                     | 78120-1827                           | Y                  |
|          | 78120-1808                               | 78120-1818                                     | 78120-1828                           |                    |
|          | 78120-1809                               | 78120-1819                                     | 78120-1829                           |                    |
| 20       | 78120-2007                               | 78120-2017                                     | 78120-2027                           | N                  |
|          | 78120-2008                               | 78120-2018                                     | 78120-2028                           |                    |
|          | 78120-2009                               | 78120-2019                                     | 78120-2029                           |                    |
| 22       | 78120-2207                               | 78120-2217                                     | 78120-2227                           | Y                  |
|          | 78120-2208                               | 78120-2218                                     | 78120-2228                           |                    |
|          | 78120-2209                               | 78120-2219                                     | 78120-2229                           |                    |
| 24       | 78120-2407                               | 78120-2417                                     | 78120-2427                           | Y                  |
|          | 78120-2408                               | 78120-2418                                     | 78120-2428                           |                    |
|          | 78120-2409                               | 78120-2419                                     | 78120-2429                           |                    |

78120-X X X X

CKT SIZE

04 = 4 CKTS

.

.

24 = 24 CKTS

FINISHES

7 = 0.05um Au MIN. GOLD ON CONTACT AND 2.54um MIN. MATTE TIN ON SOLDERTAIL OVER 1.27um MIN. NICKEL UNDERPLATE OVERALL

8 = 0.38um Au MIN. GOLD ON CONTACT AND 2.54um MIN. MATTE TIN ON SOLDERTAIL OVER 1.27um MIN. NICKEL UNDERPLATE OVERALL

9 = 0.76um Au MIN. GOLD ON CONTACT AND 2.54um MIN. MATTE TIN ON SOLDERTAIL OVER 1.27um MIN. NICKEL UNDERPLATE OVERALL

PACKAGING & PICK AND PLACE CAPABILITY

0 = NO KAPTON TAPE IN TUBE

1 = WITH KAPTON TAPE IN TUBE

2 = WITH KAPTON TAPE IN TAPE AND REEL

LOCATION OF KAPTON TAPE (CENTRE OF CONNECTOR)

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                                                   | NTS     |                        |  | 1.27MM PITCH SLIM-GRID VERTICAL SMT RECEPTACLE |  |              |  |
| GENERAL TOLERANCES (UNLESS SPECIFIED)                |         |                        |  | PRODUCT CUSTOMER DRAWING                       |  |              |  |
| ANGULAR TOL                                          | ± 3.0 ° |                        |  | DOCUMENT NUMBER                                |  |              |  |
| 4 PLACES                                             | ±       |                        |  | 781200001                                      |  |              |  |
| 3 PLACES                                             | ±       |                        |  | DOC TYPE                                       |  |              |  |
| 2 PLACES                                             | ± 0.2   |                        |  | PSD                                            |  |              |  |
| 1 PLACE                                              | ±       |                        |  | DOC PART                                       |  |              |  |
| 0 PLACES                                             | ±       |                        |  | 000                                            |  |              |  |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |         | THIRD ANGLE PROJECTION |  | DRAWING                                        |  | SERIES       |  |
|                                                      |         |                        |  | A3-SIZE                                        |  | 78120        |  |
|                                                      |         |                        |  | MATERIAL NUMBER                                |  | SHEET NUMBER |  |
|                                                      |         |                        |  | SEE TABLE                                      |  | 2 OF 3       |  |

EC NO: 757088

DRWN: SUAIFR

CHK'D: SUAIFR

APPR: MRAMAKRISHNA

INITIAL REVISION:

DRWN: SCHEONG

APPR: KHLIM

2023/05/05

2023/07/19

2023/07/19

2016/02/21

2016/07/18

GENERAL MARKET

2 OF 3

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DATE: 2020/01/18

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|   | 10                            | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |   |
| F | BOARD TO BOARD (BTB) DISTANCE |   |   |   |   |   |   |   |   |   | F |
| E |                               |   |   |   |   |   |   |   |   |   |   |
| D |                               |   |   |   |   |   |   |   |   |   |   |
| C |                               |   |   |   |   |   |   |   |   |   |   |
| B |                               |   |   |   |   |   |   |   |   |   |   |
| A |                               |   |   |   |   |   |   |   |   |   |   |
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