

- ① 材料及び仕上げ(めっき仕様) : TABLE1参照  
MATERIAL AND FINISES:SEE TABLE 1
2. 製品仕様 : 2147190000-PS 001  
PRODUCT SPECIFICATION : 2147190000-PS 001
3. 梱包仕様 : 2147219200-SPK 200  
PACKING SPECIFICATION : 2147219200-SPK 200
4. 嵌合相手 : 214719 SERIES  
MATE WITH : 214719 SERIES
5. アプリケーション仕様書  
(コネクタ取扱い説明書) : 2166940000-AS 000  
APPLICATION SPECIFICATION  
(CONNECTOR MANUAL) : 2166940000-AS 000

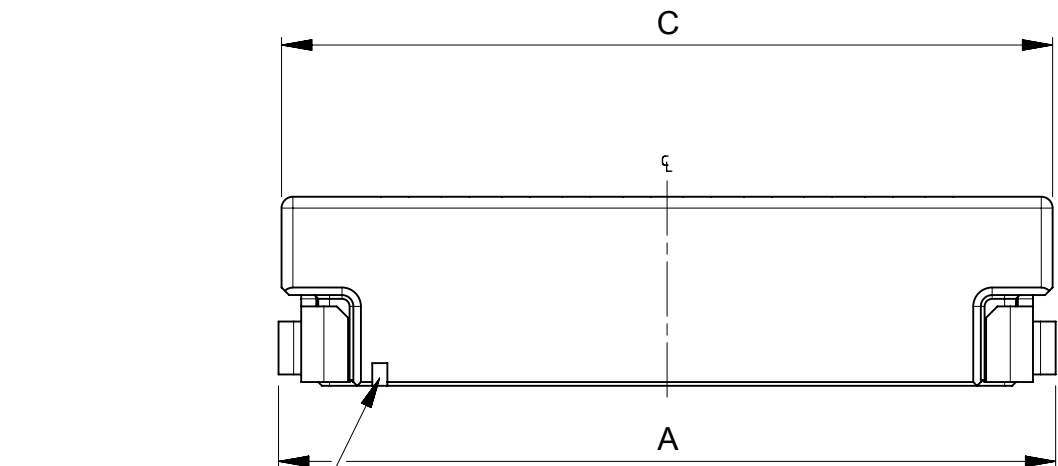
6. 端子テール部及びネイルの平坦度：0.1MAX.  
TAIL AND NAIL COPLANARITY TO BE 0.1 MAX.
- △7 極数 = 偶数に適応  
APPLY FOR CIRCUIT SIZE = EVEN
- △8 発注番号(製品番号)：SHEET 4の製品一覧を参照ください  
ORDER No (MATERIAL No) :  
REFER TO SHEET 4 FOR PRODUCT LIST

SERIES No.

## CIRCUIT SIZE

9. 本製品のプラスチック部に黒点、白点等が確認される場合や色合いが異なる場合がありますが、製品機能に影響はありません。  
THERE IS NO INFLUENCE IN THE PRODUCT PERFORMANCE THOUGH THE BLACK AND WHITE SPOT ETC.  
MIGHT BE CONFIRMED TO THE PLASTIC PART OF THIS PRODUCT AND THE SHADE MIGHT BE DIFFERENT.

|                                                                                                                                               |  |       |  |                                                                                                                                                                                                                   |  |                    |                                                                    |                  |                 |                     |                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--|-------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------|--------------------------------------------------------------------|------------------|-----------------|---------------------|------------------------|
| 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:<br><br>EC NO: 747483<br>DRWN: HKOBAYASHI 2023/03/06<br>CHK'D: AIDA 2023/07/20<br>APPR: SAKIYAMA 2023/07/20<br><br>INITIAL REVISION:<br>DRWN: HKOBAYASHI 2023/03/06<br>APPR: SAKIYAMA 2023/07/20 |  |                    | molex                                                              |                  |                 |                     |                        |
| mm                                                                                                                                            |  | NTS   |  |                                                                                                                                                                                                                   |  |                    | ZERO-HACHI 0.8 HDR ASSEMBLY<br>SINGLE ROW RIGHT ANGLE GOLD PLATING |                  |                 |                     |                        |
| GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                                                                                                      |  |       |  |                                                                                                                                                                                                                   |  |                    | PRODUCT CUSTOMER DRAWING                                           |                  |                 |                     |                        |
| ANGULAR TOL ± 3.0 °                                                                                                                           |  |       |  |                                                                                                                                                                                                                   |  |                    | DOCUMENT NUMBER                                                    |                  | DOC TYPE        | DOC PART            | REVISION               |
| 4 PLACES                                                                                                                                      |  | ± 0.2 |  |                                                                                                                                                                                                                   |  |                    | 2147210000-SD                                                      |                  | PSD             | 001                 | A                      |
| 3 PLACES                                                                                                                                      |  | ± 0.2 |  |                                                                                                                                                                                                                   |  |                    |                                                                    |                  |                 |                     |                        |
| 2 PLACES                                                                                                                                      |  | ± 0.2 |  |                                                                                                                                                                                                                   |  |                    |                                                                    |                  |                 |                     |                        |
| 1 PLACE                                                                                                                                       |  | ± 0.2 |  |                                                                                                                                                                                                                   |  |                    |                                                                    |                  |                 |                     |                        |
| 0 PLACES                                                                                                                                      |  | ± 0.2 |  |                                                                                                                                                                                                                   |  |                    |                                                                    |                  |                 |                     |                        |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                                    |  |       |  | THIRD ANGLE PROJECTION<br>                                                                                                   |  | DRAWING<br>A3-SIZE |                                                                    | SERIES<br>214721 | MATERIAL NUMBER | CUSTOMER<br>GENERAL | SHEET NUMBER<br>1 OF 4 |



CIRCUIT 1  
INDICATOR MARK

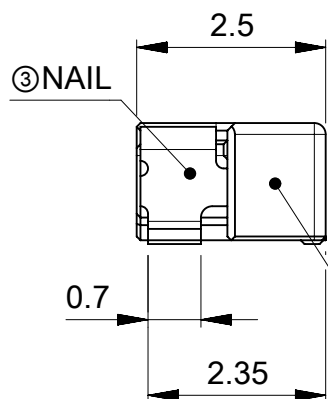
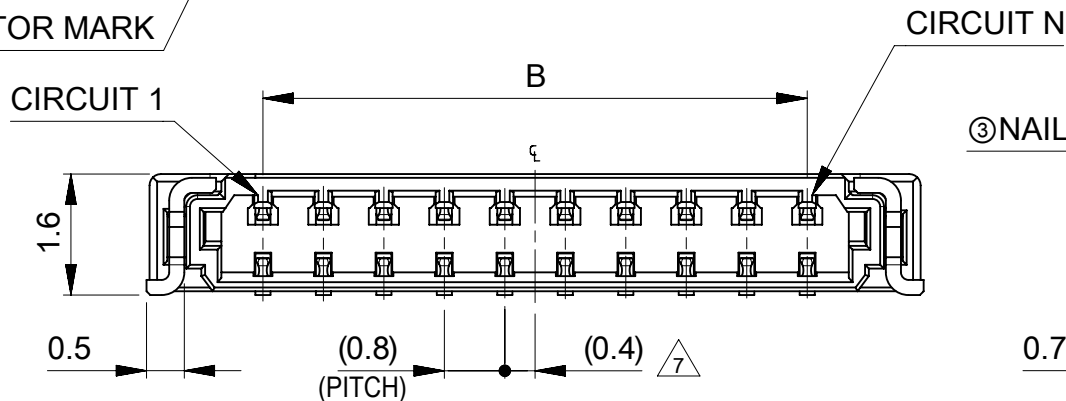
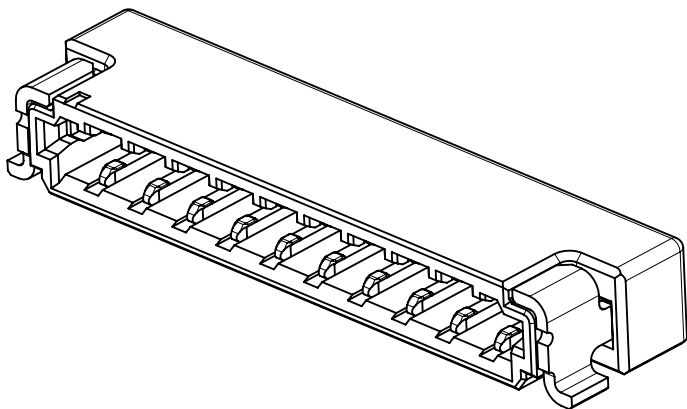
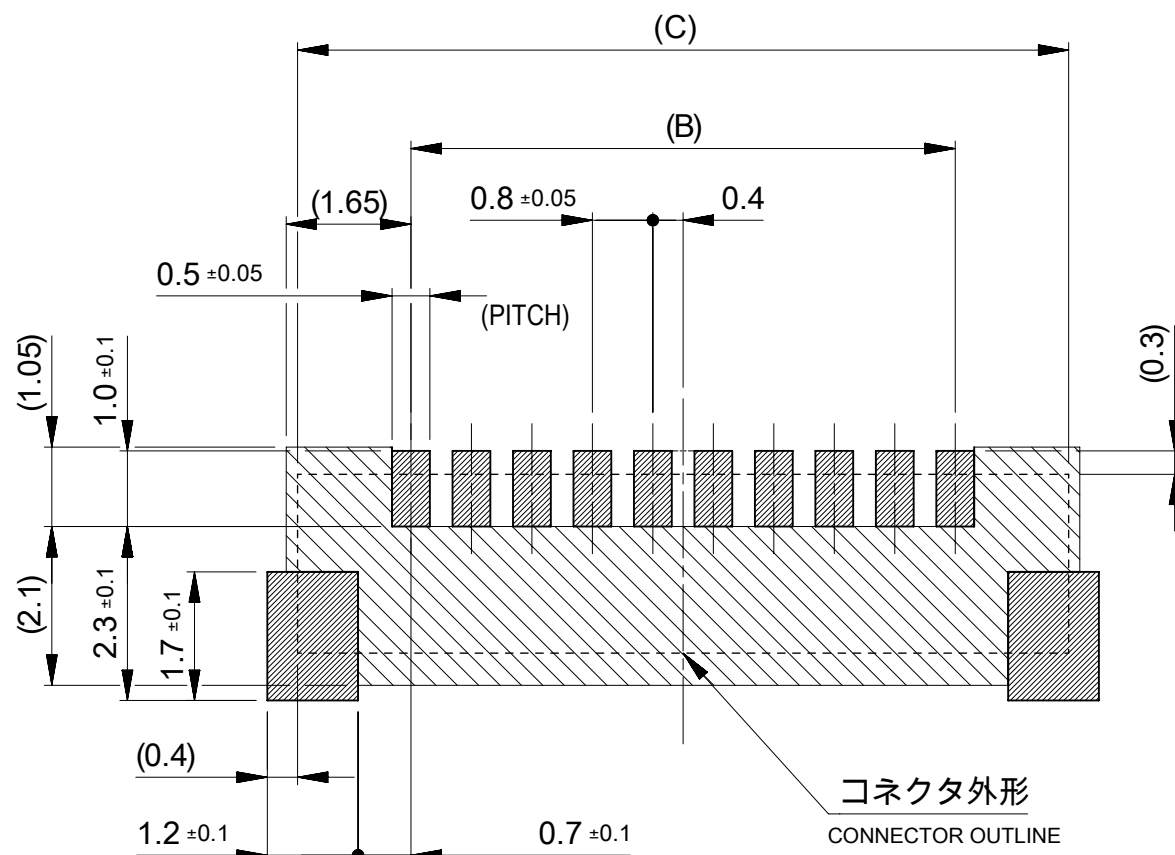


Diagram illustrating the top view of the connector housing. The diagram shows the arrangement of terminals and the location of the TRADE MARK and CAV.&MOLD NO. (Cavity and Mold Number) markings. The terminals are numbered 1 through 10, and the housing is labeled ① HOUSING. The terminal positions are labeled ② TERMINAL.



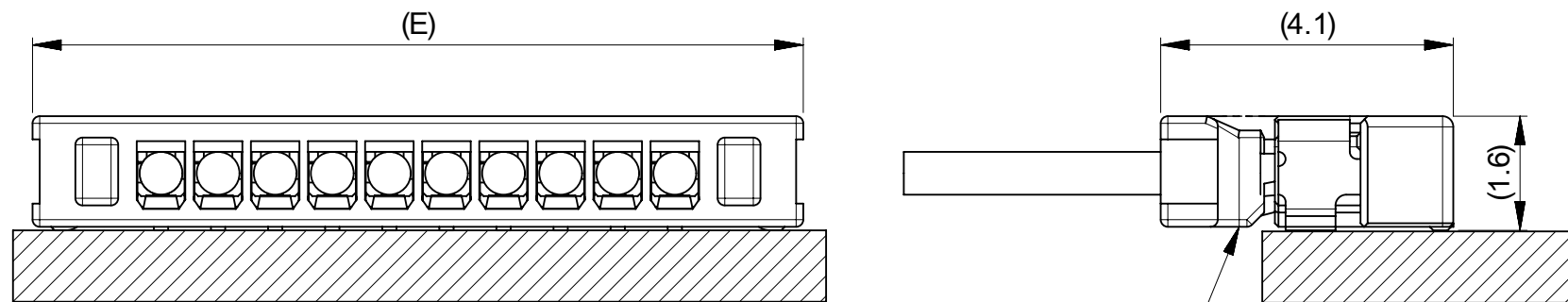
 **TABLE 1**

| 番号<br>NO. | 部品<br>PART        | 材質<br>MATERIAL                                                                                     |                                                                     |
|-----------|-------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| ①         | ハウジング<br>HOUSING  | 液晶ポリマー(LCP), UL94 V-0, LOW HALOGEN, 黒<br>LIQUID CRYSTAL POLYMER(LCP), UL94 V-0, LOW HALOGEN, BLACK |                                                                     |
| ②         | ターミナル<br>TERMINAL | 銅合金<br>COPPER ALLOY                                                                                |                                                                     |
|           |                   | 接点部<br>CONTACT AREA                                                                                | 金めっき : 0.1 MICROMETER MINIMUM<br>GOLD PLATING                       |
|           |                   | 半田付け部<br>TAIL AREA                                                                                 | 金めっき : GOLD PLATING                                                 |
|           |                   | 下地めっき<br>UNDER PLATING                                                                             | ニッケルめっき(下地) : 1.0 MICROMETER MINIMUM<br>NICKEL (UNDER PLATING)      |
| ③         | ネイル<br>NAIL       | リン青銅<br>PHOSPHOR BRONZE                                                                            |                                                                     |
|           |                   | 半田付け部<br>TAIL AREA                                                                                 | 錫めっき(リフロー処理) : 1.0 MICROMETER MINIMUM<br>MATTE TIN REFLOW TREATMENT |
|           |                   | 下地めっき<br>UNDER PLATING                                                                             | ニッケルめっき(下地) : 1.0 MICROMETER MINIMUM<br>NICKEL (UNDER PLATING)      |



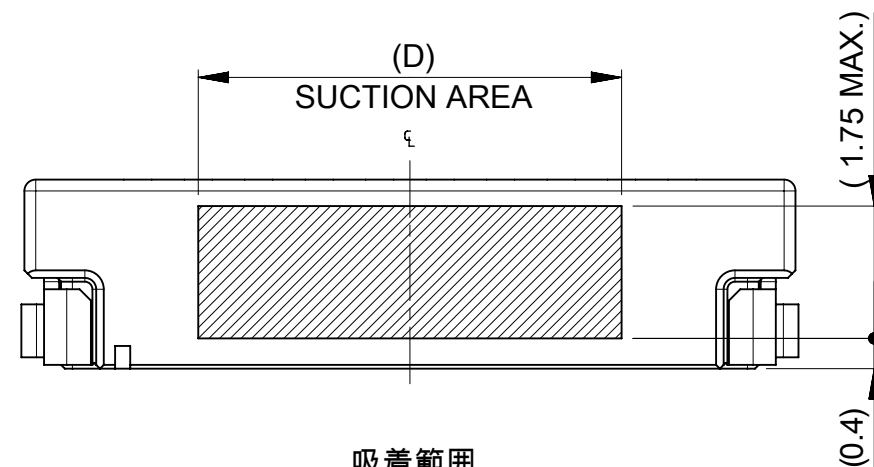
推奨基板パターンレイアウト(参考)  
RECOMENDED PCB PATTERN LAYOUT(REF.)  
(参考 : メタルマスク厚さ 0.1mm, マスク開口率100%)  
(REF:METAL MASK THICKNESS 0.1mm, APERTURE RATIO 100%)

パターン非推奨エリア  
パターンを引き回す際は、製品機能に影響がないことをご確認ください。  
PATTERN IS NOT RECOMMENDED ON THE HATCHING AREA  
PLEASE CHECK NOT TO HAVE PROBLEM FOR PRODUCT FUNCTION  
WHEN SETTING PATTERN ON THE HATCHING AREA.

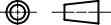


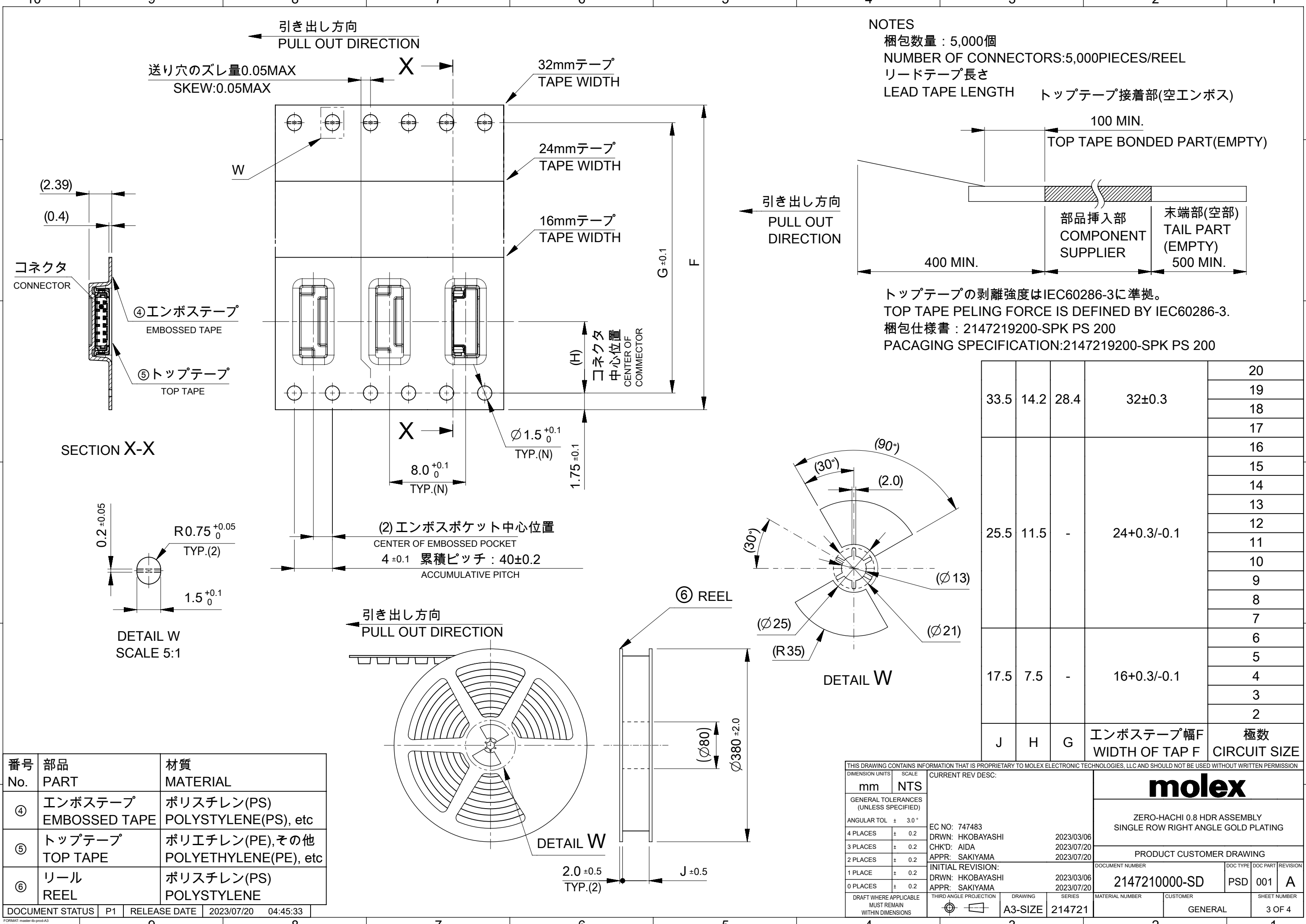
嵌合相手 : 214719シリーズ  
MATE WITH:214719 SERIES

嵌合状態図  
MATED CONNECTORS



吸着範囲  
SUCTION AREA

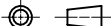
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|-----------------------------------------------------------------------------------------------------------------------------------------------|--|-------|-----------------------------------------------------------------------------------------------------|---------|--------|-----------------|--------------------------|----------|----------|--------------|
| DIMENSION UNITS                                                                                                                               |  | SCALE | CURRENT REV DESC:                                                                                   |         |        |                 | <div>molex</div>         |          |          |              |
| mm                                                                                                                                            |  | NTS   |                                                                                                     |         |        |                 |                          |          |          |              |
| GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                                                                                                      |  |       | <div>ZERO-HACHI 0.8 HDR ASSEMBLY<br/>SINGLE ROW RIGHT ANGLE GOLD PLATING</div>                      |         |        |                 |                          |          |          |              |
| ANGULAR TOL ± 3.0 °                                                                                                                           |  |       |                                                                                                     |         |        |                 |                          |          |          |              |
| 4 PLACES                                                                                                                                      |  | ± 0.2 |                                                                                                     |         |        |                 |                          |          |          |              |
| 3 PLACES                                                                                                                                      |  | ± 0.2 |                                                                                                     |         |        |                 |                          |          |          |              |
| 2 PLACES                                                                                                                                      |  | ± 0.2 |                                                                                                     |         |        |                 |                          |          |          |              |
| 1 PLACE                                                                                                                                       |  | ± 0.2 | EC NO: 747483<br>DRWN: HKOBAYASHI 2023/03/06<br>CHK'D: AIDA 2023/07/20<br>APPR: SAKIYAMA 2023/07/20 |         |        |                 | PRODUCT CUSTOMER DRAWING |          |          |              |
| 0 PLACES                                                                                                                                      |  | ± 0.2 |                                                                                                     |         |        |                 |                          |          |          |              |
| INITIAL REVISION:                                                                                                                             |  |       | DOCUMENT NUMBER                                                                                     |         |        |                 | DOC TYPE                 | DOC PART | REVISION |              |
| DRWN: HKOBAYASHI 2023/03/06<br>APPR: SAKIYAMA 2023/07/20                                                                                      |  |       | 2147210000-SD                                                                                       |         |        |                 | PSD                      | 001      | A        |              |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                                    |  |       | THIRD ANGLE PROJECTION                                                                              | DRAWING | SERIES | MATERIAL NUMBER |                          | CUSTOMER |          | SHEET NUMBER |
|                                                          |  |       | A3-SIZE                                                                                             | 214721  |        |                 | GENERAL                  |          | 2 OF 4   |              |



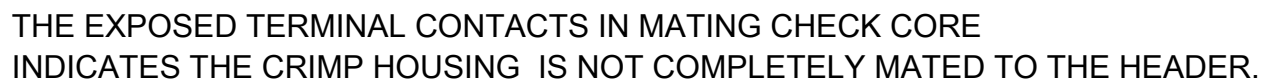
| 番号<br>No. | 部品<br>PART               | 材質<br>MATERIAL                          |
|-----------|--------------------------|-----------------------------------------|
| ④         | エンボステープ<br>EMBOSSED TAPE | ポリスチレン(PS)<br>POLYSTYLENE(PS), etc      |
| ⑤         | トップテープ<br>TOP TAPE       | ポリエチレン(PE),その他<br>POLYETHYLENE(PE), etc |
| ⑥         | リール<br>REEL              | ポリスチレン(PS)<br>POLYSTYLENE               |

|                 |    |              |            |          |
|-----------------|----|--------------|------------|----------|
| DOCUMENT STATUS | P1 | RELEASE DATE | 2023/07/20 | 04:45:33 |
|-----------------|----|--------------|------------|----------|

|      |      |      |                             |                    |
|------|------|------|-----------------------------|--------------------|
| 33.5 | 14.2 | 28.4 | 32±0.3                      | 20                 |
|      |      |      |                             | 19                 |
|      |      |      |                             | 18                 |
|      |      |      |                             | 17                 |
|      |      |      |                             | 16                 |
|      |      |      |                             | 15                 |
|      |      |      |                             | 14                 |
|      |      |      |                             | 13                 |
|      |      |      |                             | 12                 |
|      |      |      |                             | 11                 |
|      |      |      |                             | 10                 |
|      |      |      |                             | 9                  |
|      |      |      |                             | 8                  |
|      |      |      |                             | 7                  |
|      |      |      |                             | 6                  |
|      |      |      |                             | 5                  |
|      |      |      |                             | 4                  |
|      |      |      |                             | 3                  |
|      |      |      |                             | 2                  |
| J    | H    | G    | エンボステープ幅F<br>WIDTH OF TAP F | 極数<br>CIRCUIT SIZE |

|                                                                                                                                               |     |       |  |                                                                                                                 |  |                    |                                  |                  |  |                     |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|--|-----------------------------------------------------------------------------------------------------------------|--|--------------------|----------------------------------|------------------|--|---------------------|--|
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| DIMENSION UNITS                                                                                                                               |     | SCALE |  | CURRENT REV DESC:                                                                                               |  |                    | <div>molex</div>                 |                  |  |                     |  |
| mm                                                                                                                                            | NTS |       |  |                                                                                                                 |  |                    |                                  |                  |  |                     |  |
| GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                                                                                                      |     |       |  | ZERO-HACHI 0.8 HDR ASSEMBLY<br>SINGLE ROW RIGHT ANGLE GOLD PLATING                                              |  |                    |                                  |                  |  |                     |  |
| ANGULAR TOL ± 3.0 °                                                                                                                           |     |       |  |                                                                                                                 |  |                    |                                  |                  |  |                     |  |
| 4 PLACES                                                                                                                                      |     | ± 0.2 |  | EC NO: 747483                                                                                                   |  |                    | PRODUCT CUSTOMER DRAWING         |                  |  |                     |  |
| 3 PLACES                                                                                                                                      |     | ± 0.2 |  | DRWN: HKOBAYASHI 2023/03/06                                                                                     |  |                    |                                  |                  |  |                     |  |
| 2 PLACES                                                                                                                                      |     | ± 0.2 |  | CHK'D: AIDA 2023/07/20                                                                                          |  |                    |                                  |                  |  |                     |  |
| 1 PLACE                                                                                                                                       |     | ± 0.2 |  | APPR: SAKIYAMA 2023/07/20                                                                                       |  |                    | DOCUMENT NUMBER<br>2147210000-SD |                  |  |                     |  |
| 0 PLACES                                                                                                                                      |     | ± 0.2 |  | INITIAL REVISION:                                                                                               |  |                    |                                  |                  |  | DOC TYPE<br>PSD     |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                                    |     |       |  | THIRD ANGLE PROJECTION<br> |  | DRAWING<br>A3-SIZE |                                  | SERIES<br>214721 |  | CUSTOMER<br>GENERAL |  |
|                                                                                                                                               |     |       |  |                                                                                                                 |  |                    |                                  |                  |  |                     |  |

## INCOMPLETE MATING PREVENTION SHAPE (11~20 CIRCUIT)



FORMAT: master-tb-prod-A3  
REVISION: J1  
DATE: 2021/05/01