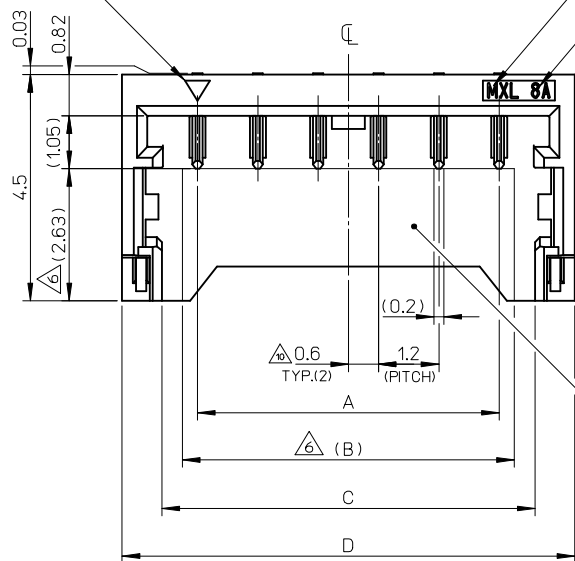
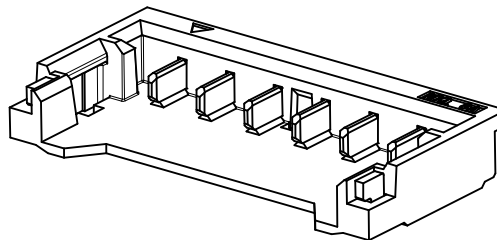


10 9 8 7 6 5 4 3 2 1

CKT No.1



トレードマーク  
TRADE MARK  
キャビ番号  
CAV No.



吸着推奨エリア  
RECOMMENDED CHIPMOUNTER  
VACUUM NOZZLE AREA

注記: 1. 材質 ハウジング: PA46, UL94V-0色: 黒  
NOTES. MATERIALS HOUSING: PA46, UL94V-0, COLOUR:BLACK

ターミナル: 銅合金  
TERMINAL: COPPER ALLOY  
ネイル: 銅合金  
FITTING NAIL: COPPER ALLOY  
2. メッキ仕様  
FINISHES ターミナル: 金メッキ0.1μmMIN, ニッケル下地メッキ 1.0μm MIN  
TERMINAL: GOLD 0.1μmMIN, WITH 1.0μm MIN NICKEL UNDERPLATE OVERALL  
ネイル: 錫メッキ 1.5 μm MIN ニッケル下地メッキ 1.0 μm MIN  
FITTING NAIL: 1.5 μm MIN TIN WITH 1.0 μm MIN NICKEL UNDERPLATE OVERALL

3. 嵌合相手: 78172-500\*  
MATING WITH: 極数 No.  
CIRCUIT No.

4. 梱包形態: エンボスリール梱包 (詳細はSD-78171-001 を参照願います)  
PACKAGING SPECIFICATION: EMBOSSED TAPE (REFER TO SD-78171-001)

製品番号は右記の内容を示す: 78171-600\*  
PRODUCT NUMBER INDICATES FOLLOWING

吸着推奨エリアを示す  
SHOWS VACUUM NOZZLE AREA.

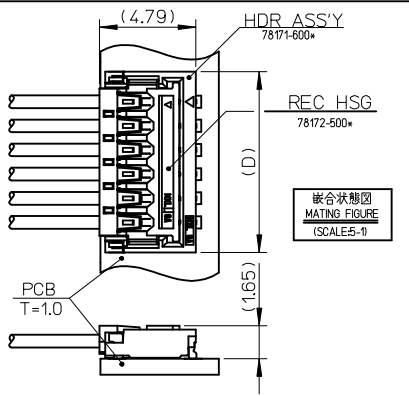
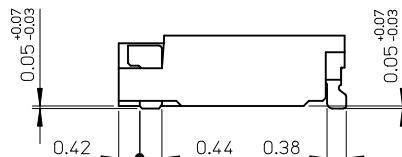
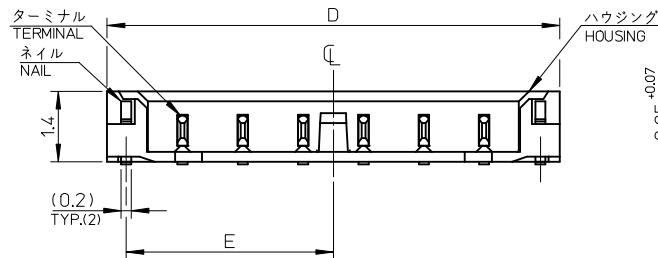
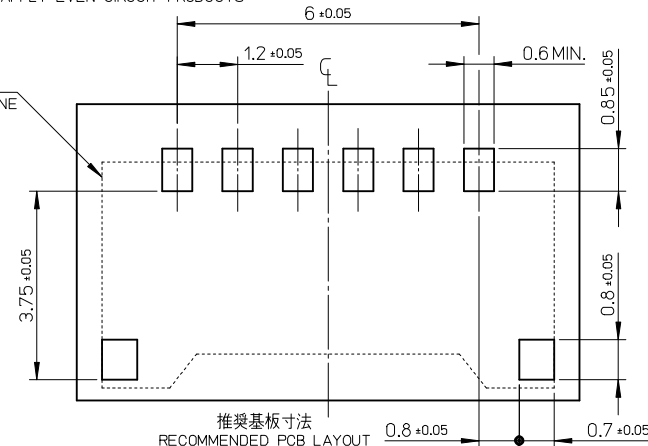
7. ソルダータールとネイルの平坦度: 0.10 mm MAX  
SOLDER TAIL AND FITTING NAIL COPLANARITY 0.1mm MAX.

8. ELV 及び RoHS 適合品  
ELV AND RoHS COMPLIANT.

9. 製品の取扱いについては取扱説明書"AS-78172-001"を参照願います  
REFER TO INSTRUCTION MANUAL "AS-78172-001"

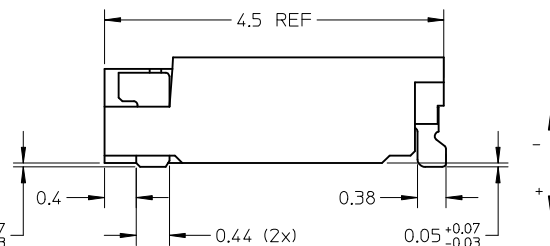
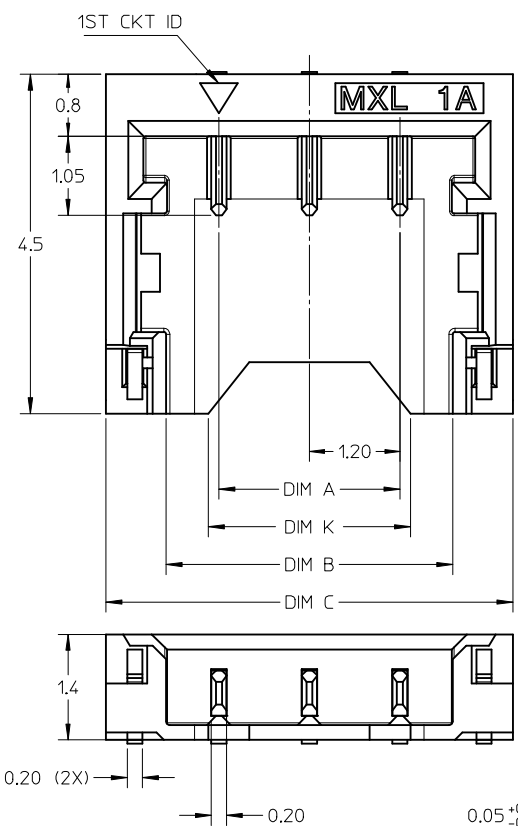
偶数極の製品に適用  
APPLY EVEN CIRCUIT PRODUCTS

コネクタ外形図  
CONNECTOR OUTLINE



|     |     |      |      |      |     |                             |              |            |
|-----|-----|------|------|------|-----|-----------------------------|--------------|------------|
| 7.2 | 7.8 | 8.62 | 10.2 | 4.72 | 7   | 78171-5007                  | 78171-6007   | 78171-600* |
| 6   | 6.6 | 7.42 | 9    | 4.12 | 6   | 78171-5006                  | 78171-6006   |            |
| A   | B   | C    | D    | E    | CKT | PACKING FORM: EMBOSSED TAPE |              |            |
|     |     |      |      |      |     | ORDER No.                   | MATERIAL NO. | MODEL NO.  |

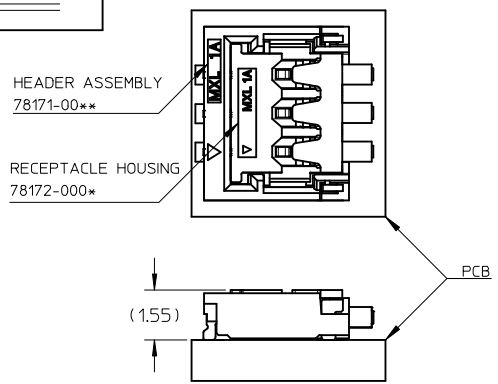
|                                                                                                                        |                                                            |                                          |           |                            |                                                                                                                                  |                           |                        |                                                                                                                 |                     |
|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------|-----------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------|
| REVISED<br>EC NO: J2014-0305<br>DRWN: YAKE<br>CHKD: KASAKAWA<br>APPR: NUKITA<br>2013/05/15<br>2013/05/15<br>2013/08/20 | DESCRIPTION                                                | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |           | DIMENSION STYLE<br>MM ONLY |                                                                                                                                  | SCALE<br>10:1             | DESIGN UNITS<br>METRIC |  THIRD ANGLE<br>PROJECTION |                     |
|                                                                                                                        |                                                            | 10 UNDER                                 | ± 0.2     | DRAWN BY<br>T. ODA         | DATE<br>08/06/20                                                                                                                 | 1.2W/B CONN.<br>HDR ASS'Y |                        |                                                                                                                 |                     |
|                                                                                                                        |                                                            | 10 OVER 30 UNDER                         | ± 0.25    | CHECKED BY<br>SA. SATO     | DATE<br>08/06/20                                                                                                                 |                           |                        |                                                                                                                 |                     |
|                                                                                                                        |                                                            | 30 OVER                                  | ± 0.3     | APPROVED BY<br>NUKITA      | DATE<br>2010/10/25                                                                                                               |                           |                        |                                                                                                                 |                     |
|                                                                                                                        |                                                            | ANGULAR ±3 °                             |           | MATERIAL NO.               |                                                                                                                                  | DOCUMENT NO. SD-78171-002 |                        |                                                                                                                 | SHEET NO.<br>1 OF 1 |
|                                                                                                                        | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                          | SEE CHART |                            |                                                                                                                                  |                           |                        |                                                                                                                 |                     |
|                                                                                                                        | REV                                                        |                                          |           | SIZE<br>A3                 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                           |                        |                                                                                                                 |                     |



- NOTES:
1. MATERIALS:  
HOUSING: LCP, UL94V-0, COLOUR : BLACK  
TERMINAL: COPPER ALLOY  
FITTING NAIL: COPPER ALLOY
  2. FINISHES:  
TERMINAL : GOLD 0.14µm MIN. WITH 1.0 UM MIN NICKEL  
UNDERPLATE OVERALL  
FITTING NAIL : 1.5 UM MIN TIN WITH 1.0UM MIN NICKEL  
UNDERPLATE OVERALL.
  3. PRODUCT SPECIFICATION: PS-78171-010
  4. PACKAGING SPECIFICATION: TAPE & REEL PACKAGING
  5. MATES WITH MOLEX PART NUMBER 78172-00\*\*
  6. 3 CIRCUITS IS SHOWN FOR ILLUSTRATION PURPOSE ONLY
  7. SOLDER TAIL AND FITTING NAIL COPLANARITY : 0.10 MM MAX  
TO BE MEASURED BY PLACING THE CONNECTOR ON A FLAT  
GAUGED SURFACE.
  8. ELV & RoHS COMPLIANT.

| CKT SIZE | PART NUMBER | DIM A | DIM B | DIM C | DIM K |
|----------|-------------|-------|-------|-------|-------|
| 2        | 78171-0002  | 1.2   | 2.6   | 4.2   | 1.5   |
| 3        | 78171-0003  | 2.4   | 3.8   | 5.4   | 2.7   |
| 4        | 78171-0004  | 3.6   | 5.0   | 6.6   | 3.9   |
| 5        | 78171-0005  | 4.8   | 6.2   | 7.8   | 5.1   |

MATING VIEW



|                                                                                                                       |             |                                                                                                                               |        |                            |                    |                                             |                        |                     |
|-----------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------|--------------------|---------------------------------------------|------------------------|---------------------|
| REVISED<br>EC NO: J2013-0147<br>DRWN: TODA<br>CHKD: KASAKAWA<br>APPR: Y0110<br>2012/07/10<br>2012/07/10<br>2012/11/06 | DESCRIPTION | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                         |        | DIMENSION STYLE<br>MM ONLY | SCALE<br>---       | DESIGN UNITS<br>METRIC                      | THIRD ANGLE PROJECTION |                     |
|                                                                                                                       |             | 10 UNDER                                                                                                                      | ± 0.2  | DRAWN BY<br>CWLAM          | DATE<br>2007/10/25 | TITLE<br>1.20MM PITCH, W-T-B PLUG CONNECTOR |                        |                     |
|                                                                                                                       |             | 10 OVER 30 UNDER                                                                                                              | ± 0.25 | CHECKED BY<br>KSSHANTHA    | DATE<br>2007/12/07 | molex                                       |                        |                     |
|                                                                                                                       |             | 30 OVER                                                                                                                       | ± 0.3  | APPROVED BY<br>NUKITA      | DATE<br>2010/10/25 |                                             |                        |                     |
|                                                                                                                       |             | ANGULAR ± 3 °                                                                                                                 |        | MATERIAL NO.               |                    | DOCUMENT NO.                                |                        | SHEET NO.<br>1 OF 3 |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                                                                  |             | SEE CHART                                                                                                                     |        | SD-78171-008               |                    |                                             |                        |                     |
| SIZE<br>A3                                                                                                            |             | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |        |                            |                    |                                             |                        |                     |

10 9 8 7 6 5 4 3 2 1

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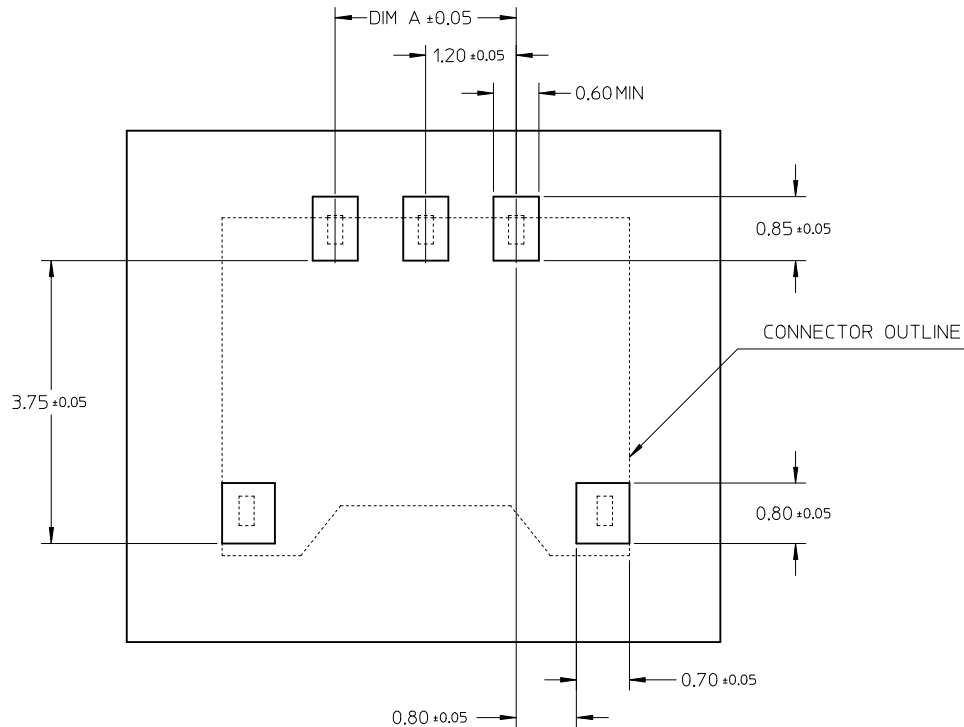
C

B

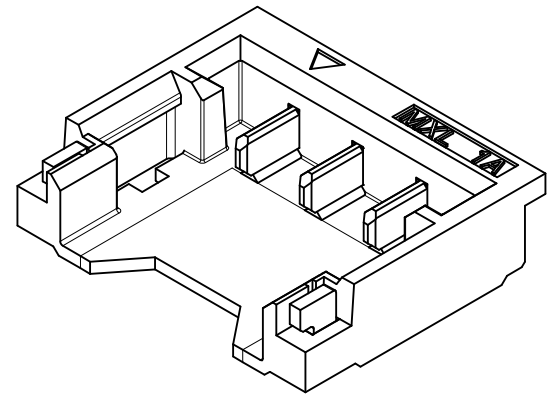
B

A

A



RECOMMENDED PCB LAYOUT



9

8

7

6

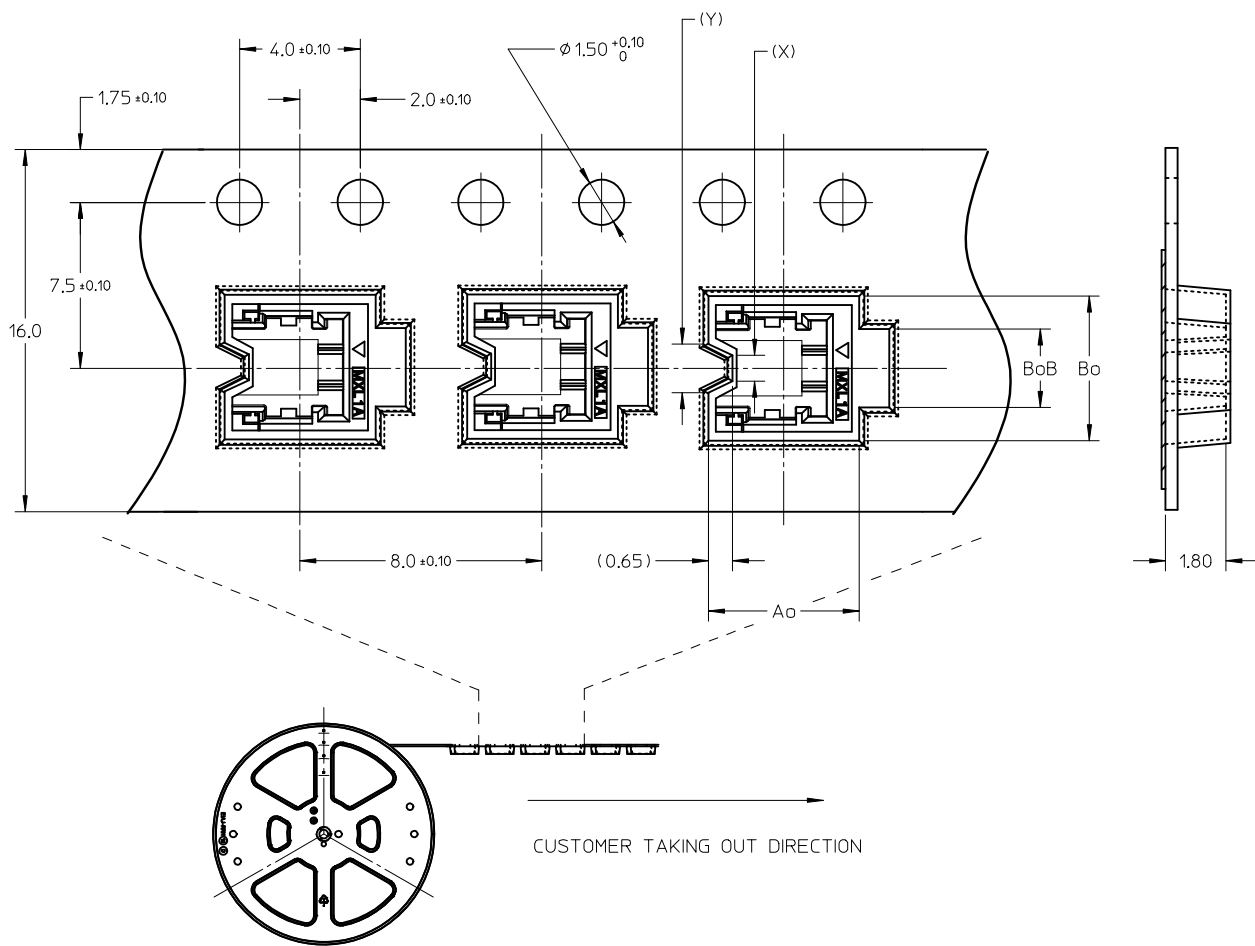
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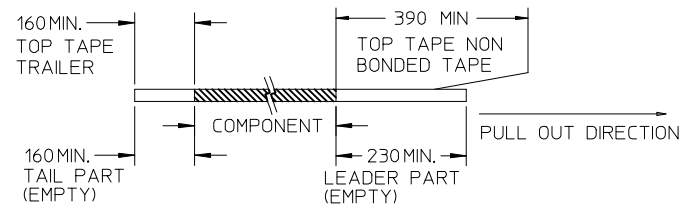
2

|                                                                                       |                                                       |                                                                                                                                  |        |                            |                    |                                                |                        |                           |  |  |              |  |  |           |
|---------------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------|--------------------|------------------------------------------------|------------------------|---------------------------|--|--|--------------|--|--|-----------|
| SEE SHEET 1<br>EC NO: J2013-0147<br>DRWN: TODA<br>CHKD: KASAKAWA<br>APPR: YOKO<br>REV | DESCRIPTION<br>2012/07/10<br>2012/07/10<br>2012/11/06 | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                                                                                         |        | DIMENSION STYLE<br>MM ONLY |                    | SCALE<br>---                                   | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |  |  |              |  |  |           |
|                                                                                       |                                                       | 10 UNDER                                                                                                                         | ± 0.2  | DRAWN BY<br>CWLAM          | DATE<br>2007/10/25 | TITLE<br>1.20MM PITCH, W-T-B<br>PLUG CONNECTOR |                        |                           |  |  |              |  |  |           |
|                                                                                       |                                                       | 10 OVER 30 UNDER                                                                                                                 | ± 0.25 | CHECKED BY<br>KSSHANTHA    | DATE<br>2007/12/07 |                                                |                        |                           |  |  |              |  |  |           |
|                                                                                       |                                                       | 30 OVER                                                                                                                          | ± 0.3  | APPROVED BY<br>NUKITA      | DATE<br>2010/10/25 | molex                                          |                        |                           |  |  |              |  |  |           |
|                                                                                       |                                                       | ANGULAR ±3 °                                                                                                                     |        | MATERIAL NO.               |                    |                                                |                        |                           |  |  | DOCUMENT NO. |  |  | SHEET NO. |
|                                                                                       |                                                       | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                       |        | SEE SHEET 1                |                    |                                                |                        |                           |  |  | SD-78171-008 |  |  | 2 OF 3    |
|                                                                                       |                                                       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |        |                            |                    |                                                |                        |                           |  |  |              |  |  |           |

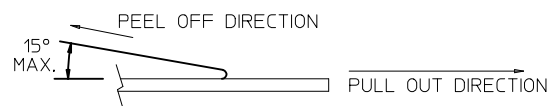


# NOTES:

## 1. LEADER AND TRAILER TAPE



## 2. PEELING OFF FORCE OF THE TOP TAPE: 20 - 80gf. (PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE)



## 3. TAPE AND REEL SPECIFICATION IS AS PER EIA-481.

## 4. TAPE AND REEL QUANTITY : 4500 PCS/ REEL.

## 5. MATERIAL : CARRIER TAPE : PP CLEAR REEL / FLANGE : PS, COLOUR : BLACK

## 6. Ao & Bo ARE MEASURED ON A PLANE 0.3MM ABOVE THE BOTTOM OF THE POCKET.

CUSTOMER TAKING OUT DIRECTION

| CKT | Ao  | Bo  | BoB | (X)  | (Y)  |
|-----|-----|-----|-----|------|------|
| 2   | 5.0 | 4.7 | 2.6 | 0.74 | 1.54 |
| 3   | 5.0 | 5.9 | 3.8 | 1.94 | 2.74 |
| 4   | 5.0 | 7.1 | 5.0 | 3.14 | 3.94 |
| 5   | 5.0 | 8.3 | 6.2 | 4.34 | 5.14 |

|                                                                                                                            |                                                                                                                                  |                                                            |        |                            |                    |                                                |                        |                                                                                                                 |              |           |        |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------|----------------------------|--------------------|------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|--------------|-----------|--------|
| SEE SHEET 1<br>EC NO: J2013-0147<br>DRWN: TODA<br>CHKD: KASAKAWA<br>APPR: YOIITO<br>2012/07/10<br>2012/07/10<br>2012/11/06 | DESCRIPTION                                                                                                                      | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |        | DIMENSION STYLE<br>MM ONLY |                    | SCALE<br>---                                   | DESIGN UNITS<br>METRIC |  THIRD ANGLE<br>PROJECTION |              |           |        |
|                                                                                                                            |                                                                                                                                  | 10 UNDER                                                   | ± 0.2  | DRAWN BY<br>CWLAM          | DATE<br>2007/10/25 | TITLE<br>1.20MM PITCH, W-T-B<br>PLUG CONNECTOR |                        |                                                                                                                 |              |           |        |
|                                                                                                                            |                                                                                                                                  | 10 OVER 30 UNDER                                           | ± 0.25 | CHECKED BY<br>KSSHANTHA    | DATE<br>2007/12/07 |                                                |                        |                                                                                                                 |              |           |        |
|                                                                                                                            |                                                                                                                                  | 30 OVER                                                    | ± 0.3  | APPROVED BY<br>NUKITA      | DATE<br>2010/10/25 | <b>molex</b><br>SD-78171-008                   |                        |                                                                                                                 |              |           |        |
|                                                                                                                            |                                                                                                                                  | ANGULAR ±3 °                                               |        | MATERIAL NO.               |                    |                                                |                        |                                                                                                                 | DOCUMENT NO. | SHEET NO. |        |
|                                                                                                                            |                                                                                                                                  | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        | SEE SHEET 1                |                    |                                                |                        |                                                                                                                 | SD-78171-008 |           | 3 OF 3 |
| REV                                                                                                                        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                            |        |                            |                    |                                                |                        |                                                                                                                 |              |           |        |

F

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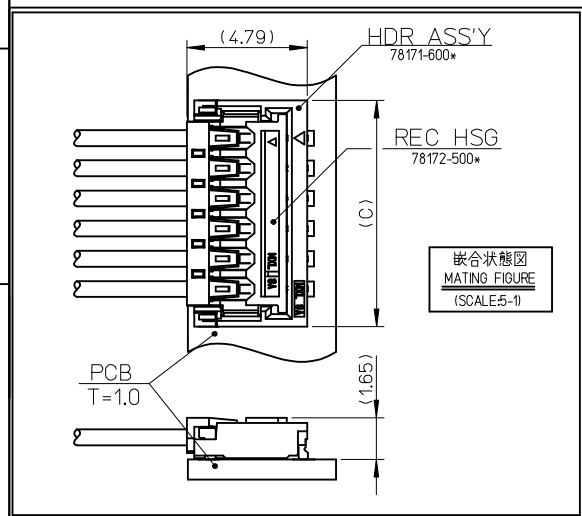
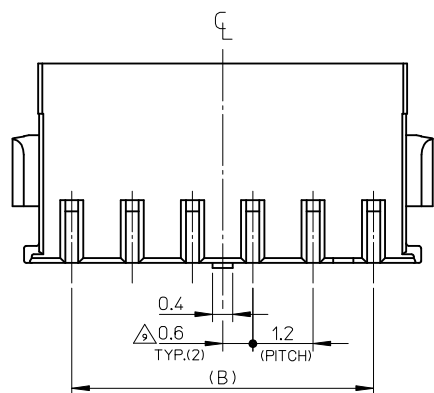
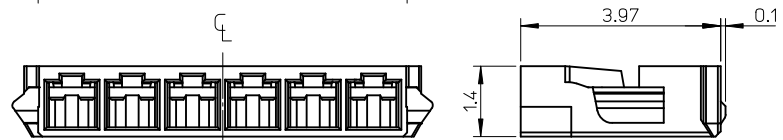
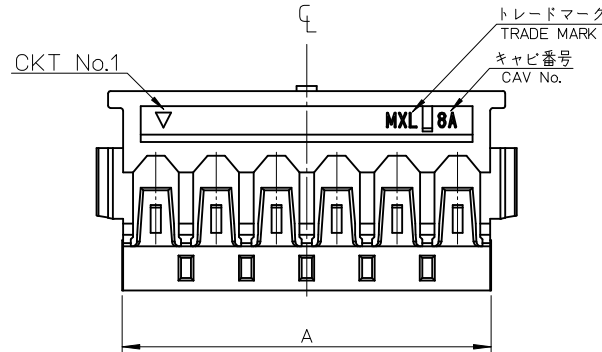
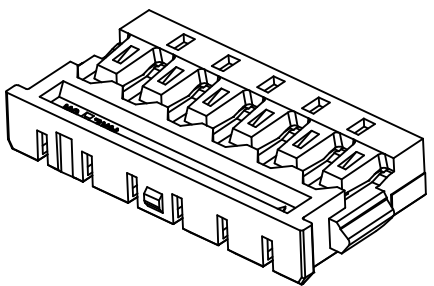
E

D

C

B

A



嵌合状態図  
MATING FIGURE  
(SCALE:5-1)

注記 NOTES. 1. 材質 MATERIALS ハウジング: PA46, UL94V-0, 色: 黒 HOUSING: PA46, UL94V-0, COLOUR: BLACK

2. 適合ターミナル: 78172-041\* APPLICABLE TERMINAL: 78172-041\*

3. 嵌合相手: 78171-500\* MATES WITH 極数 No. CIRCUIT No.

4. 梱包形態: 袋詰め梱包 PACKAGING SPECIFICATION: PLASTIC BAG PACKAGING

製品番号は右記の内容を示す: 78172-500\* PRODUCT NUMBER INDICATES FOLLOWING 極数 No. CIRCUIT No.

6. ELV 及びRoHS 適合品 ELV AND RoHS COMPLIANT

7. 参考として本製品評価時に使用の電線仕様を以下に示します。 THE ELECTRIC WIRE SPECIFICATION USED AS REFERENCE AT THE TIME OF THIS PRODUCT EVALUATION IS SHOWN BELOW.

※製品評価時使用電線  
UL 3302電線  
UL STYLE 3302

| 電線サイズ<br>WIRE SIZE | 導体仕様<br>CONDUCTOR SPEC.           | 導体構成<br>STRANDING<br>(No./mm) | 導体外径<br>CONDUCTOR DIA.<br>(mm) | 絶縁体外径<br>INSULATION DIA.<br>(mm) |
|--------------------|-----------------------------------|-------------------------------|--------------------------------|----------------------------------|
| AWG# 30            | 錫メッキ軟銅線<br>TINNED ANNEALED COPPER | 7/0.10                        | 0.30                           | 0.70                             |

UL 3302電線  
UL STYLE 3302

| 電線サイズ<br>WIRE SIZE | 導体仕様<br>CONDUCTOR SPEC.           | 導体構成<br>STRANDING<br>(No./mm) | 導体外径<br>CONDUCTOR DIA.<br>(mm) | 絶縁体外径<br>INSULATION DIA.<br>(mm) |
|--------------------|-----------------------------------|-------------------------------|--------------------------------|----------------------------------|
| AWG# 28            | 錫メッキ軟銅線<br>TINNED ANNEALED COPPER | 7/0.127                       | 0.38                           | 0.6                              |

8. 製品の取扱いについては取扱説明書"AS-78172-001"を参照願います。 REFER TO INSTRUCTION MANUAL "AS-78172-001"

偶数極の製品に適用  
APPLY EVEN CIRCUIT PRODUCTS.

|      |     |      |     |              |            |
|------|-----|------|-----|--------------|------------|
| 8.54 | 7.2 | 10.2 | 7   | 78172-5007   | 78172-500* |
| 7.34 | 6   | 9    | 6   | 78172-5006   |            |
| A    | B   | C    | CKT | MATERIAL NO. | MODEL NO.  |

SCALE 10:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION

12W/B CONN  
REC CRIMP HSG

molex

DOCUMENT NO. SD-78172-001 SHEET NO. 1 OF 1

SEE CHART

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

| GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |       | DIMENSION STYLE<br>MM ONLY |      |
|------------------------------------------------------------|-------|----------------------------|------|
| 10 UNDER                                                   | ±0.2  | DRAWN BY                   | DATE |
| 10 OVER 30 UNDER                                           | ±0.25 | CHECKED BY                 | DATE |
| 30 OVER                                                    | ±0.3  | APPROVED BY                | DATE |
| ANGULAR                                                    | ±1 °  | MATERIAL NO.               |      |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       | SIZE                       | A3   |