

PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION

**Part Number:** [0547220164](#)  
**Status:** **Active**  
**Description:** 0.50mm (.020") Pitch SlimStack™ Receptacle, Surface Mount, Dual Row, Vertical, 1.50mm (.059") Stacking Height, Lower Circuit Size Version, 16 Circuits, Gold (Au) Plating with Nickel (Ni) Barrier Plating Between Contact and Tail

**Documents:**

[3D Model](#) [Product Specification PS-54722-010 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**General**

Product Family PCB Receptacles  
Series [54722](#)  
Application Board-to-Board  
Comments Embossed Tape Reel Height: 380mm (14.961")|Gold plating with Nickel plating between contact and tail SlimStack™

Product Name

**Physical**

Circuits (Loaded) 16  
Color - Resin Black  
Durability (mating cycles max) 30  
Glow-Wire Compliant No  
Lock to Mating Part None  
Mated Height (in) 0.059 In  
Mated Height (mm) 1.50 mm  
Material - Metal Phosphor Bronze  
Material - Plating Mating Gold  
Material - Plating Termination Gold  
Material - Resin High Temperature Thermoplastic  
Number of Rows 2  
Orientation Vertical  
PCB Locator No  
PCB Retention None  
Packaging Type Embossed Tape on Reel  
Pitch - Mating Interface (in) 0.020 In  
Pitch - Mating Interface (mm) 0.50 mm  
Polarized to PCB No  
Surface Mount Compatible (SMC) N/A  
Temperature Range - Operating -25°C to +85°C  
Termination Interface: Style Surface Mount

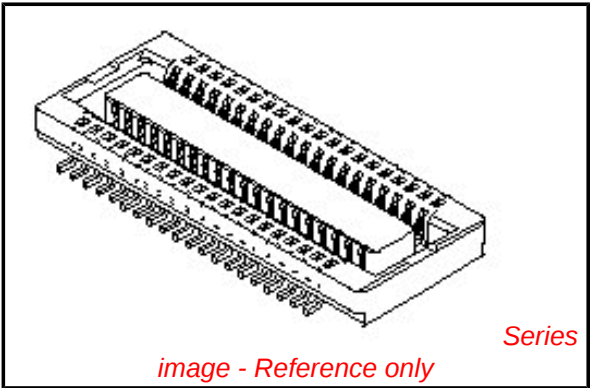
**Electrical**

Current - Maximum per Contact 0.5A  
Voltage - Maximum 50V

**Material Info**

**Reference - Drawing Numbers**

Product Specification PS-54722-010, RPS-54722-027, RPS-54722-033  
Sales Drawing SD-54722-011, SD-54722-012



**EU RoHS**

**ELV and RoHS  
Compliant**  
**REACH SVHC**  
Not Reviewed  
**Halogen-Free  
Status**

**China RoHS**



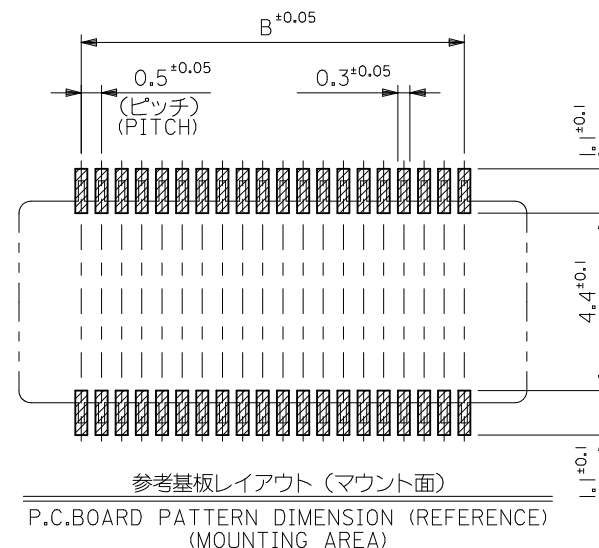
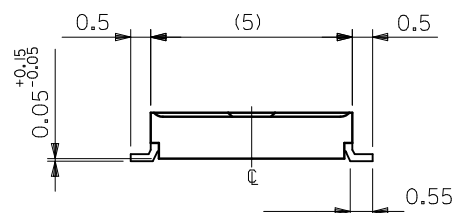
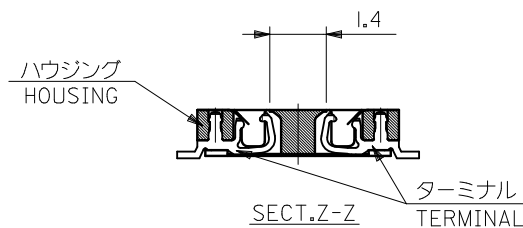
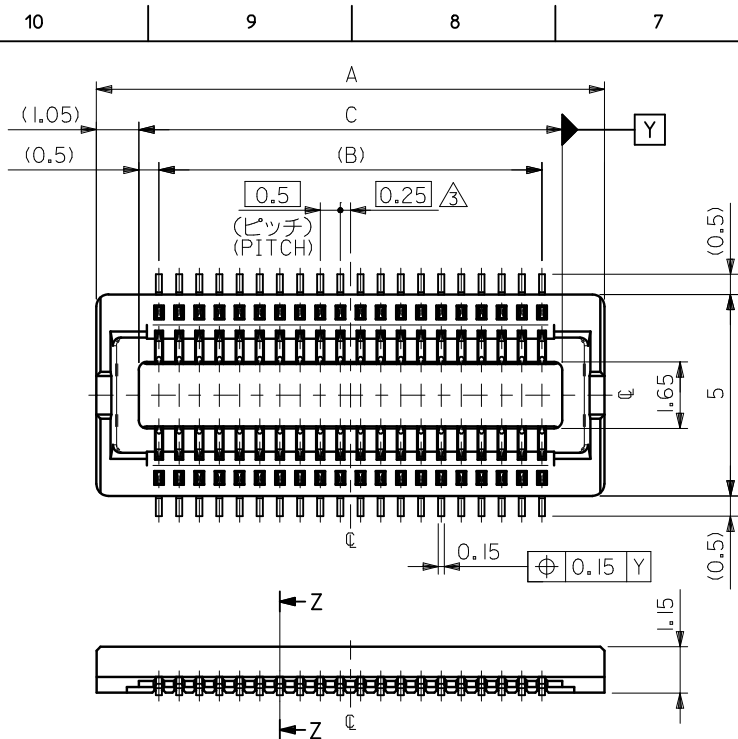
**Need more information on product  
environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

**Search Parts in this Series**  
[54722Series](#)

**Mates With**  
[55560 PCB Header](#)



30極以下品形状  
SHAPE OF 30 CIRCUITS OR LESS

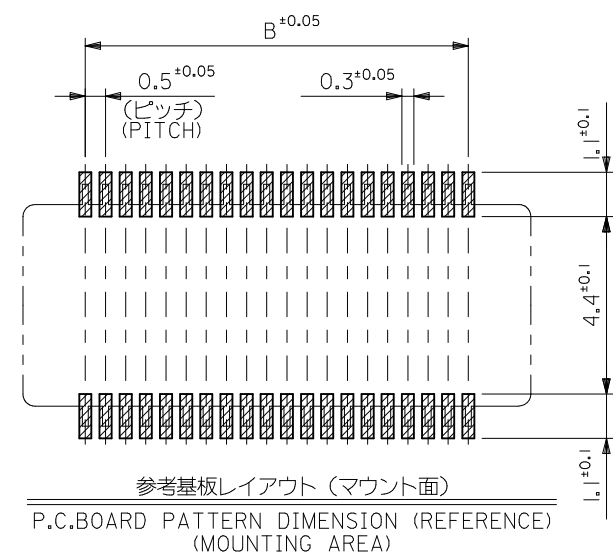
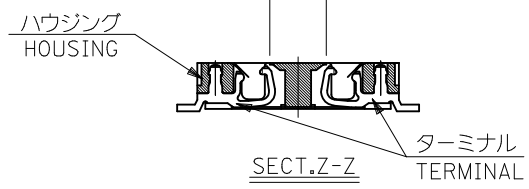
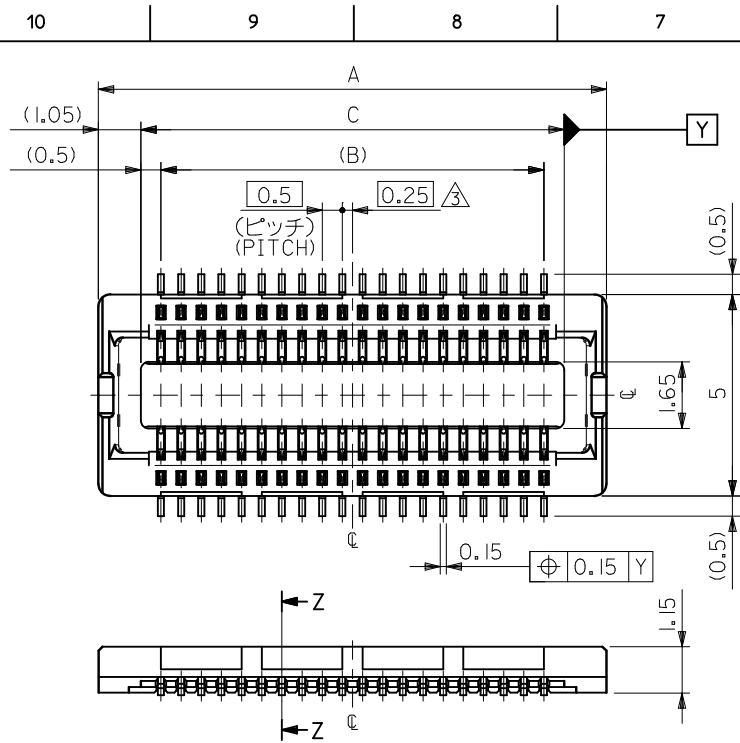
#### 注記 NOTES:

1. 使用材料 MATERIAL  
ハウジング: 液晶ポリマー ガラス充填、UL94V-0 (黒)  
HOUSING: LIQUID CRYSTAL POLYMER (GLASS FILLED)  
UL94V-0, (COLOR: BLACK)  
ターミナル: リン青銅 (t=0.15)  
TERMINAL: PHOSPHOR BRONZE (t=0.15)
2. メッキ仕様 PLATING  
金メッキ 0.25マイクロメートル以上 (コンタクト部)  
GOLD 0.25 MICROMETER MINIMUM (CONTACT AREA)  
金メッキ 0.4マイクロメートル以下 (テール部)  
GOLD 0.4 MICROMETER MAXIMUM (TAIL AREA)  
下地メッキ: ニッケルメッキ 1.5マイクロメートル以上  
UNDER PLATING: NICKEL 1.5 MICROMETER MINIMUM  
\*コンタクト部とテール部はニッケルメッキによって  
分断されている金メッキです。  
DIVIDE INTO PARTS THE GOLD PLATING OF THE CONTACT  
AND THE TAIL PART BY THE NICKEL PLATING.

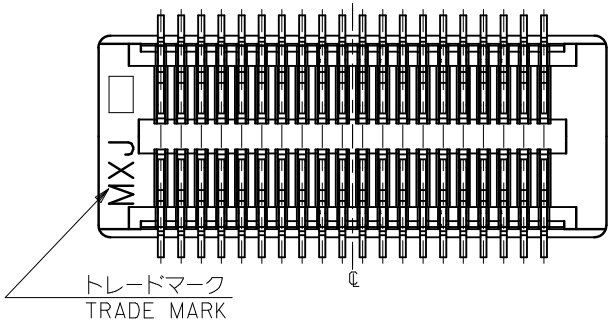
- △ (全極数/2) = 偶数の場合に適用。  
APPLY FOR (CIRCUIT/2) = EVEN.
4. 嵌合相手: 55560シリーズ, 53794シリーズ  
MATE WITH: 55560 SERIES, 53794 SERIES.
  5. テール平坦度は、0.1以下  
TAIL COPLANARITY TO BE 0.1 MAXIMUM.

|     |     |      |                  |              |               |
|-----|-----|------|------------------|--------------|---------------|
| 8.0 | 7.0 | 10.1 | 54722-0304       | 54722-0303   | 30            |
| 6.5 | 5.5 | 8.6  | 54722-0244       | 54722-0243   | 24            |
| 6.0 | 5.0 | 8.1  | 54722-0224       | 54722-0223   | 22            |
| 5.5 | 4.5 | 7.6  | 54722-0204       | 54722-0203   | 20            |
| 4.5 | 3.5 | 6.6  | 54722-0164       | 54722-0163   | 16            |
| C   | B   | A    | EMBSTP PKG.      | MATERIAL NO. | 極数<br>CIRCUIT |
|     |     |      | ORDER No. オーダー番号 | MODEL NO.    | 54722-***3    |

|         |                                                                       |             |                                                            |        |                             |                   |                                                                                                                                  |                        |                           |  |  |
|---------|-----------------------------------------------------------------------|-------------|------------------------------------------------------------|--------|-----------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------|--|--|
| REVISED | EC NO: J2010-1489<br>DRWN: TOSHIMA<br>CHKD: SMARUYAMA<br>APPR: MSASAO | 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>T. ITO          | DATE<br>'03/08/20 | TITLE<br>0.5 B-TO-B CONN REC ASSY<br>[NI BARRIER] (HGT=1.5)<br>-LEAD FREE-                                                       |                        |                           |  |  |
|         |                                                                       |             | 10 OVER 30 UNDER                                           | ± 0.25 | CHECKED BY<br>T. YAMAGUCHI  | DATE<br>'03/08/20 |                                                                                                                                  |                        |                           |  |  |
|         |                                                                       |             | 30 OVER                                                    | ± 0.3  | APPROVED BY<br>T. YAMAGUCHI | DATE<br>'03/08/20 | MOLEX INCORPORATED                                                                                                               |                        |                           |  |  |
|         |                                                                       |             | ANGULAR ±3 °                                               |        | MATERIAL NO.                |                   | DOCUMENT NO.                                                                                                                     |                        | SHEET NO.                 |  |  |
|         |                                                                       |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        | SEE CHART                   |                   | SD-54722-011                                                                                                                     |                        | 1 OF 2                    |  |  |
|         |                                                                       |             |                                                            |        | SIZE<br>A3                  |                   | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |                           |  |  |



34極以上品形状  
SHAPE OF 34CIRCUITS OR MORE



- 注記 NOTES:
- 使用材料 MATERIAL  
ハウジング: 液晶ポリマー ガラス充填、UL94V-0 (黒)  
HOUSING: LIQUID CRYSTAL POLYMER (GLASS FILLED)  
UL94V-0, (COLOR: BLACK)  
ターミナル: リン青銅 (t=0.15)  
TERMINAL: PHOSPHOR BRONZE (t=0.15)
  - メッキ仕様 PLATING  
金メッキ 0.25マイクロメートル以上 (コンタクト部)  
GOLD 0.25 MICROMETER MINIMUM (CONTACT AREA)  
金メッキ 0.4マイクロメートル以下 (テール部)  
GOLD 0.4 MICROMETER MAXIMUM (TAIL AREA)  
下地メッキ: ニッケルメッキ 1.5マイクロメートル以上  
UNDER PLATING: NICKEL 1.5 MICROMETER MINIMUM  
\*コンタクト部とテール部はニッケルメッキによって  
分断されている金メッキです。  
DIVIDE INTO PARTS THE GOLD PLATING OF THE CONTACT  
AND THE TAIL PART BY THE NICKEL PLATING.

- △ (全極数/2) = 偶数の場合に適用。  
APPLY FOR (CIRCUIT/2) = EVEN.
- 嵌合相手: 55560シリーズ, 53794シリーズ  
MATE WITH: 55560 SERIES, 53794 SERIES.
  - テール平坦度は、0.1以下  
TAIL COPLANARITY TO BE 0.1 MAXIMUM.

|      |      |      |                                 |              |               |
|------|------|------|---------------------------------|--------------|---------------|
| 20.5 | 19.5 | 22.6 | 54722-0804                      | 54722-0803   | 80            |
| 15.5 | 14.5 | 17.6 | 54722-0604                      | 54722-0603   | 60            |
| 13.0 | 12.0 | 15.1 | 54722-0504                      | 54722-0503   | 50            |
| 10.5 | 9.5  | 12.6 | 54722-0404                      | 54722-0403   | 40            |
| 9.0  | 8.0  | 11.1 | 54722-0344                      | 54722-0343   | 34            |
| C    | B    | A    | EMBSTD PKG.<br>ORDER No. オーダー番号 | MATERIAL No. | 極数<br>CIRCUIT |

|                                                                                  |                                                            |                                                                                                                                          |                             |                            |                          |                                                                             |              |                           |  |              |  |           |  |
|----------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------|--------------------------|-----------------------------------------------------------------------------|--------------|---------------------------|--|--------------|--|-----------|--|
| REVISED<br>EC NO: J2010-1489<br>DRWN: TOSHIMA<br>CHKD: SMARUYAMA<br>APPR: MSASAO | DESCRIPTION                                                | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                                                                                                 |                             | DIMENSION STYLE            |                          | SCALE                                                                       | DESIGN UNITS | MODEL NO. 54722-***3      |  |              |  |           |  |
|                                                                                  |                                                            |                                                                                                                                          |                             | MM ONLY                    |                          | ---                                                                         | METRIC       | THIRD ANGLE<br>PROJECTION |  |              |  |           |  |
|                                                                                  |                                                            | 10 UNDER                                                                                                                                 | ±0.2                        | DRAWN BY<br>T. ITO         | DATE<br>'03/08/20        | TITLE<br>0.5 B-T-O-B CONN REC ASSY<br>[NI BARRIER] (HGT=1.5)<br>-LEAD FREE- |              |                           |  |              |  |           |  |
|                                                                                  |                                                            | 10 OVER 30 UNDER                                                                                                                         | ±0.25                       | CHECKED BY<br>T. YAMAGUCHI | DATE<br>'03/08/20        |                                                                             |              |                           |  |              |  |           |  |
|                                                                                  | 30 OVER                                                    | ±0.3                                                                                                                                     | APPROVED BY<br>T. YAMAGUCHI | DATE<br>'03/08/20          | MOLEX MOLEX INCORPORATED |                                                                             |              |                           |  |              |  |           |  |
|                                                                                  | ANGULAR ±3 °                                               |                                                                                                                                          | MATERIAL NO.                |                            |                          |                                                                             |              |                           |  | DOCUMENT NO. |  | SHEET NO. |  |
|                                                                                  | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                                                                                                                          | SEE CHART                   |                            |                          |                                                                             |              |                           |  | SD-54722-011 |  | 2 OF 2    |  |
| B                                                                                | REV                                                        | SIZE A3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                             |                            |                          |                                                                             |              |                           |  |              |  |           |  |

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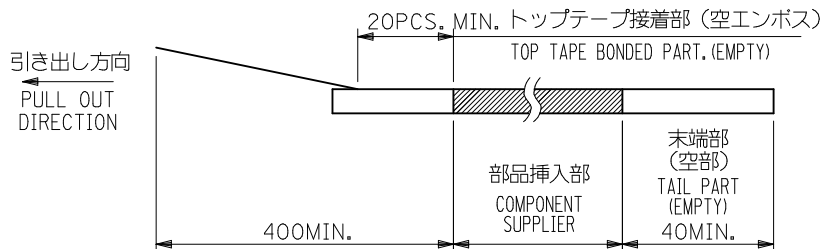
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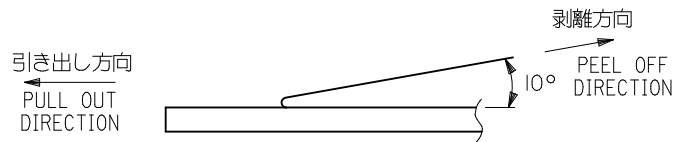
1

## 注記 NOTES

- 製品詳細寸法については図面 SD-54722-011 を参照下さい。  
RE DETAILED DIMENSION, SEE SD-54722-011
- 梱包数量：3000個/リール  
NUMBER OF CONNECTORS : 3000PCS/REEL
- リードテープ長さ LEAD TAPE LENGTH

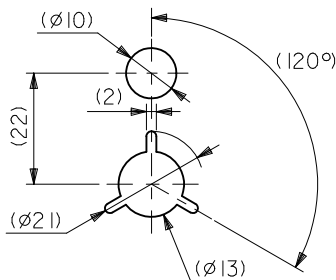
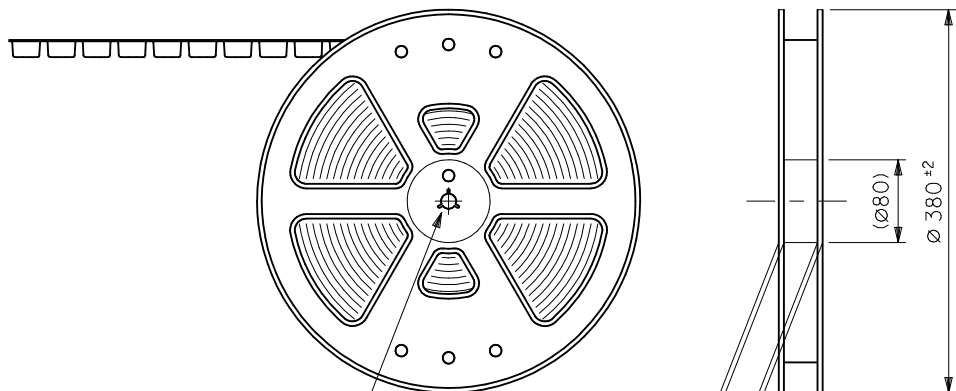


- トップテープの剥離強度：0.1 ~ 1.3N (10 ~ 130gf)  
(剥離方向は下図参照)  
尚、本規格値は出荷時に適用。(但し、輸送時に剥離が発生しないこと。)  
PEELING OFF FORCE OF TOP TAPE : 0.1 ~ 1.3N (10 ~ 130gf)  
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)  
THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT.  
PEEL OFF SHOULD NOT BE ALLOWED , DURING TRANSPORTATION.



- 材料 (MATERIAL)  
キャリアテープ (CARRIER TAPE) : ポリプロピレン (POLYPROPYLENE)  
トップテープ (TOPTAPE) : PET , PE , PEF  
リール (REEL) : ポリスチレン (P S) <リサイクル材を含む>  
POLYSTYRENE(PS) <RECYCLE MATERIAL CONTAINED>

引き出し方向  
PULL OUT  
DIRECTION



DETAIL "F"

|                                                                                  |                    |                                                            |       |                             |                   |                                                                                                                                  |                        |                         |                           |
|----------------------------------------------------------------------------------|--------------------|------------------------------------------------------------|-------|-----------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------|---------------------------|
| REVISED<br>EC NO: J2010-1489<br>DRWN: TOSHIMA<br>CHKD: SMARUYAMA<br>APPR: MSASAO | DESCRIPTION<br>REV | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |       | DIMENSION STYLE<br>MM ONLY  |                   | SCALE<br>---                                                                                                                     | DESIGN UNITS<br>METRIC | MODEL NO.<br>54722-***4 | THIRD ANGLE<br>PROJECTION |
|                                                                                  |                    | 10 UNDER                                                   | ±0.2  | DRAWN BY<br>T. ITO          | DATE<br>'03/08/20 | TITLE<br>0.5 B-T-O-B CONN REC ASSY<br>[NI BARRIER] EMBSTP PKG<br>-LEAD FREE-<br>MOLEX INCORPORATED                               |                        |                         |                           |
|                                                                                  |                    | 10 OVER 30 UNDER                                           | ±0.25 | CHECKED BY<br>T. YAMAGUCHI  | DATE<br>'03/08/20 |                                                                                                                                  |                        |                         |                           |
|                                                                                  |                    | 30 OVER                                                    | ±0.3  | APPROVED BY<br>T. YAMAGUCHI | DATE<br>'03/08/20 |                                                                                                                                  |                        |                         |                           |
|                                                                                  |                    | ANGULAR ±3 °                                               |       | MATERIAL NO.<br>SEE CHART   |                   | DOCUMENT NO.<br>SD-54722-012                                                                                                     |                        | SHEET NO.<br>1 OF 5     |                           |
|                                                                                  |                    | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       | SIZE<br>A3                  |                   | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |                         |                           |

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10 9 8 7 6 5 4 3 2 1

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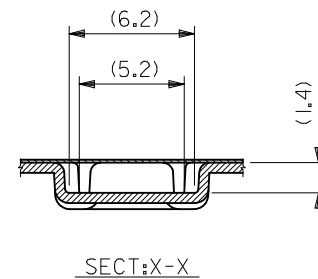
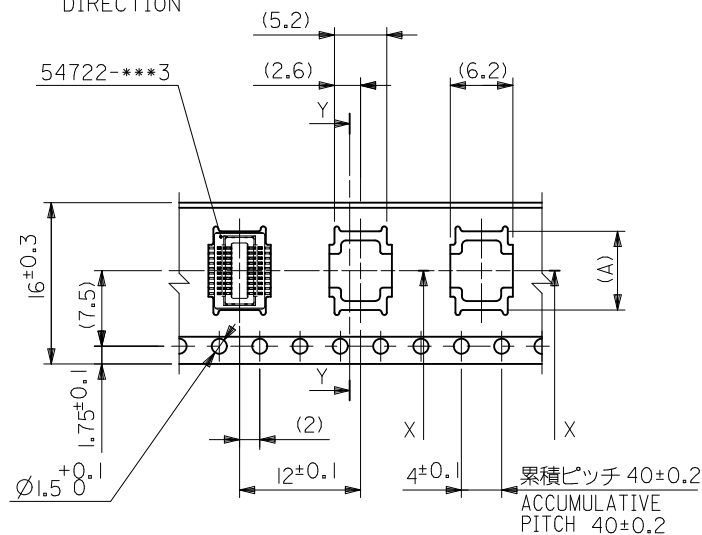
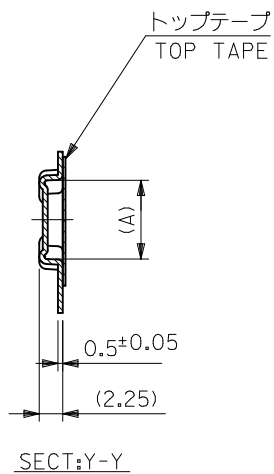
D

C

B

A

引き出し方向  
PULL OUT  
DIRECTION



16mm幅キャリアテープ  
16mm WIDTH CARRIER TAPE

|                                |      |      |     |              |               |
|--------------------------------|------|------|-----|--------------|---------------|
| 16                             | 21.4 | 17.4 | 6.8 | 54722-0204   | 20            |
|                                |      |      |     | 54722-0164   | 16            |
| キャリアテープ幅<br>CARRIER TAPE WIDTH | C    | B    | (A) | MATERIAL NO. | 極数<br>CIRCUIT |

|                                                                                                                             |             |                                                            |                                                                                                                                  |                             |                   |                                                                                                             |                        |                           |  |
|-----------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------|-------------------------------------------------------------------------------------------------------------|------------------------|---------------------------|--|
| REVISED<br>EC NO.: J2010-1489<br>DRWN: TOSHIMA<br>CHKD: SMARUYAMA<br>APPR: MSASAO<br>2010/02/01<br>2010/02/02<br>2010/02/02 | 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                                                                                                                            | T. ITO                      | DATE<br>'03/08/20 | TITLE<br>0.5 B-TO-B CONN REC ASSY<br>[NI BARRIER] EMBSTP PKG<br>-LEAD FREE-<br><br>MOLEX MOLEX INCORPORATED |                        |                           |  |
|                                                                                                                             |             | 10 OVER 30 UNDER                                           | ± 0.25                                                                                                                           | CHECKED BY<br>T. YAMAGUCHI  | DATE<br>'03/08/20 |                                                                                                             |                        |                           |  |
|                                                                                                                             |             | 30 OVER                                                    | ± 0.3                                                                                                                            | APPROVED BY<br>T. YAMAGUCHI | DATE<br>'03/08/20 |                                                                                                             |                        |                           |  |
|                                                                                                                             |             | ANGULAR ±3 °                                               |                                                                                                                                  | MATERIAL NO.                |                   |                                                                                                             |                        |                           |  |
|                                                                                                                             |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                                                                                                                  | SEE CHART                   |                   | DOCUMENT NO.<br>SD-54722-012                                                                                | SHEET NO.<br>2 OF 5    |                           |  |
|                                                                                                                             |             | REV                                                        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                             |                   |                                                                                                             |                        |                           |  |

10 9 8 7 6 5 4 3 2 1

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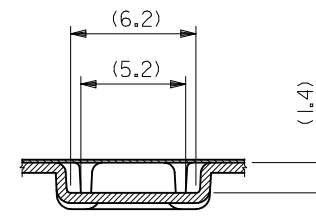
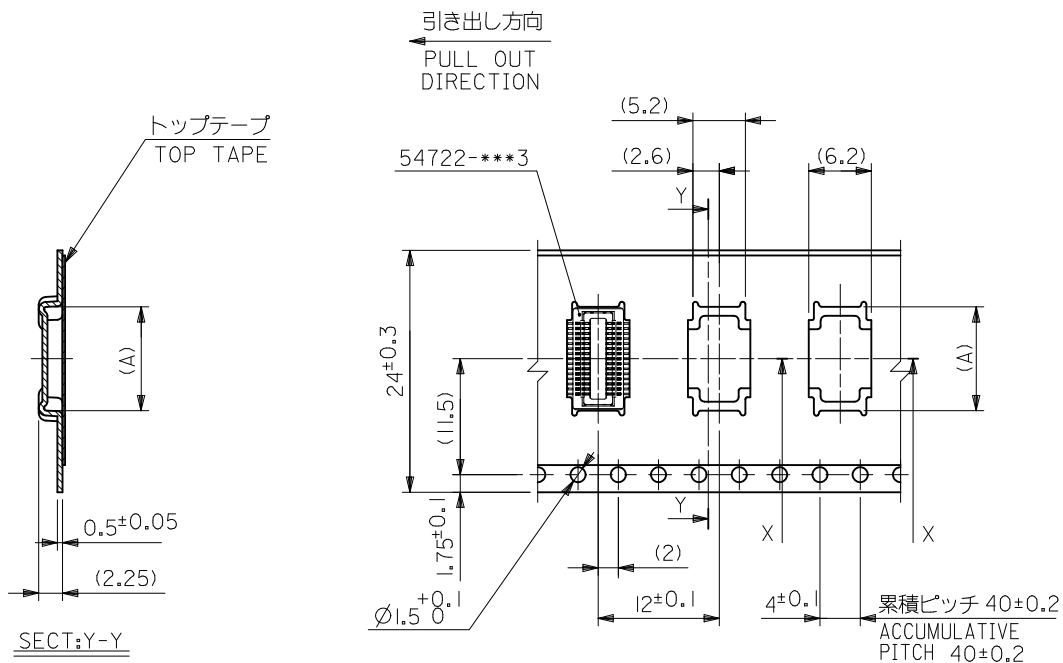
E

D

C

B

A



24mm幅キャリアテープ  
24mm WIDTH CARRIER TAPE

|                                |      |      |      |              |               |
|--------------------------------|------|------|------|--------------|---------------|
| 24                             | 29.4 | 25.4 | 15.3 | 54722-0504   | 50            |
|                                |      |      | 12.8 | 54722-0404   | 40            |
|                                |      |      | 11.3 | 54722-0344   | 34            |
|                                |      |      | 10.3 | 54722-0304   | 30            |
|                                |      |      | 8.8  | 54722-0244   | 24            |
|                                |      |      | 8.3  | 54722-0224   | 22            |
| キャリアテープ幅<br>CARRIER TAPE WIDTH | C    | B    | (A)  | MATERIAL NO. | 極数<br>CIRCUIT |

|                                                                                                                            |             |                                                                                                                                  |        |                             |                   |                                                                             |                        |                           |  |
|----------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------|-------------------|-----------------------------------------------------------------------------|------------------------|---------------------------|--|
| REVISED<br>EC NO: J2010-1489<br>DRWN: TOSHIMA<br>CHKD: SMARUYAMA<br>APPR: MSASAO<br>2010/02/01<br>2010/02/02<br>2010/02/02 | 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  | T. ITO                      | DATE<br>'03/08/20 | TITLE<br>0.5 B-TO-B CONN REC ASSY<br>[NI BARRIER] EMBSTP PKG<br>-LEAD FREE- |                        |                           |  |
|                                                                                                                            |             | 10 OVER 30 UNDER                                                                                                                 | ± 0.25 | CHECKED BY<br>T. YAMAGUCHI  | DATE<br>'03/08/20 |                                                                             |                        |                           |  |
|                                                                                                                            |             | 30 OVER                                                                                                                          | ± 0.3  | APPROVED BY<br>T. YAMAGUCHI | DATE<br>'03/08/20 |                                                                             |                        |                           |  |
|                                                                                                                            |             | ANGULAR ±3 °                                                                                                                     |        | MATERIAL NO.                |                   | DOCUMENT NO.                                                                |                        | SHEET NO.                 |  |
|                                                                                                                            |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                       |        | SEE CHART                   |                   | SD-54722-012                                                                |                        | 3 OF 5                    |  |
|                                                                                                                            | REV         | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |        |                             |                   |                                                                             |                        |                           |  |



