

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

**Part Number:** [0526101672](#)  
**Status:** **Active**  
**Overview:**  
**Description:** 1.00mm (.039") Pitch FFC/FPC Connector, SMT, Vertical, ZIF, Gold (Au) Contact Plating, 16 Circuits, Lead-free, High Barrier Packaging

**Agency Certification**

CSA LR19980  
UL E29179

**General**

Product Family FFC/FPC Connectors  
Series 52610  
Overview ffc\_fpc\_smt  
Product Name N/A

**Physical**

Circuits (Loaded) 16  
Contact Position N/A  
Durability (mating cycles max) 30  
Entry Angle Vertical  
Flammability 94V-0  
Mated Height (in) 0.226 In  
Mated Height (mm) 5.75 mm  
Material - Metal Phosphor Bronze  
Material - Plating Mating Gold  
Material - Plating Termination Tin  
Material - Resin Nylon  
Number of Rows 1  
Orientation Vertical  
PCB Locator No  
PCB Retention None  
Packaging Type Embossed Tape on Reel  
Pitch - Mating Interface (in) 0.039 In  
Pitch - Mating Interface (mm) 1.00 mm  
Polarized to PCB No  
Stackable No  
Temperature Range - Operating -40°C to +85°C  
Termination Interface: Style Surface Mount  
Wire/Cable Type FFC/FPC

**Electrical**

Current - Maximum per Contact 1A  
Voltage - Maximum 125V AC (RMS)/DC

**Material Info**

**Reference - Drawing Numbers**

Packaging Specification SPK-52610-001, SPK-52610-003  
Product Specification PS-52610-007, RPS-52610-048, RPS-52610-052, RPS-52610-053, RPS-52610-058, RPS-52610-061  
Sales Drawing SD-52610-036, SD-52610-037

**EU RoHS**

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

**China RoHS**



**Not Reviewed**

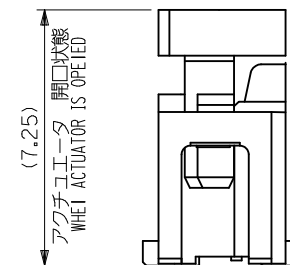
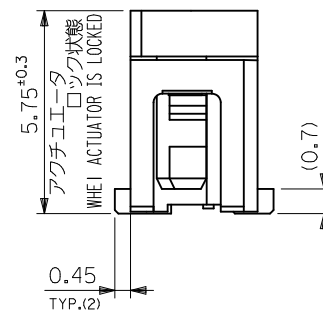
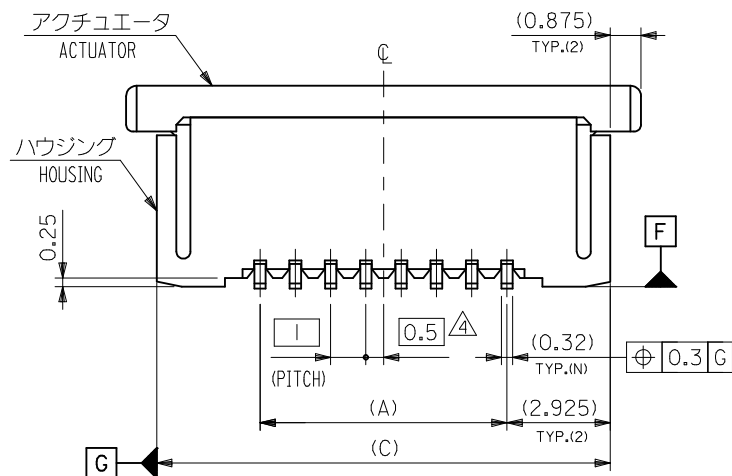
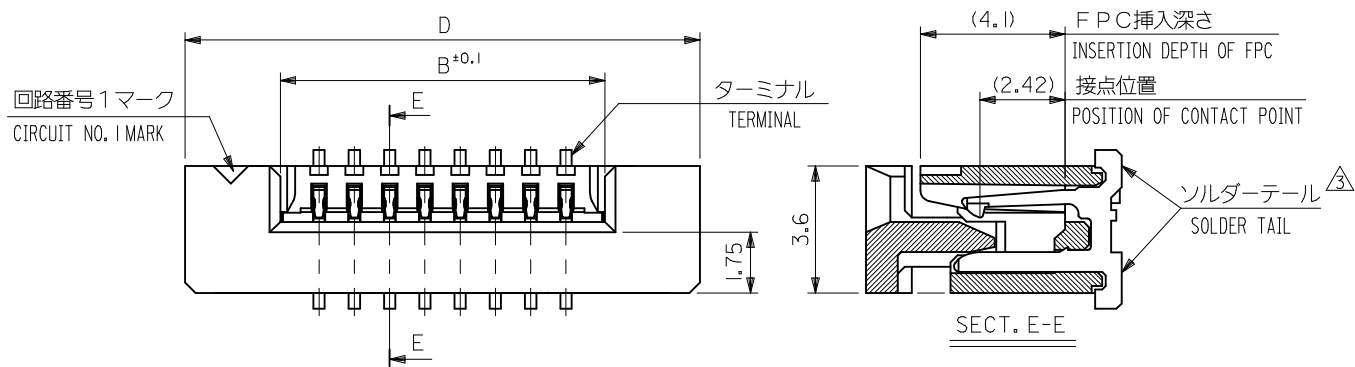
**Need more information on product  
environmental compliance?**

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**  
[52610Series](#)

10 9 8 7 6 5 4 3 2 1

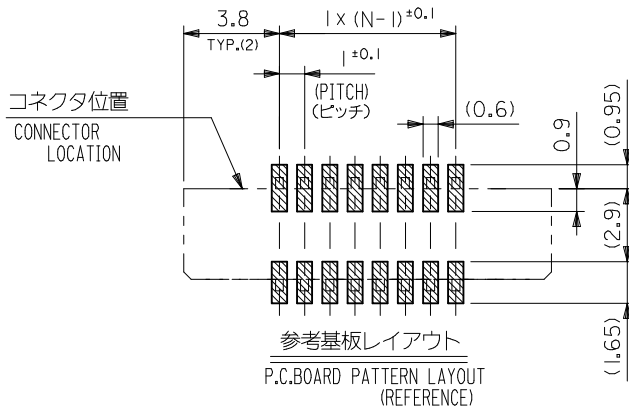
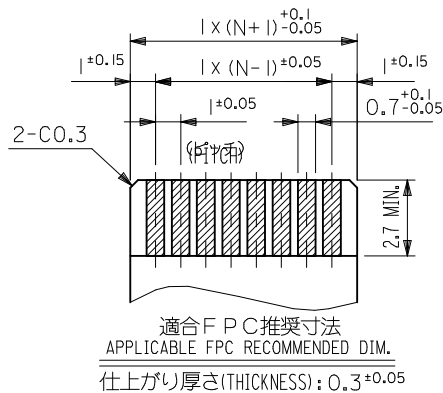


REVISED  
EC NO: J2009-2316  
DRWN: CARIZONO 2009/04/20  
CHKD: T. HARYAMA 2009/04/20  
APPR: NUKITA 2009/04/21

| GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |       |
|------------------------------------------------------------|-------|
| 10 UNDER                                                   | ±0.2  |
| 10 OVER 30 UNDER                                           | ±0.25 |
| 30 OVER                                                    | ±0.3  |
| ANGULAR                                                    | ±3 °  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       |

| DIMENSION STYLE<br>MM ONLY |                                                                                                                                  |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| DRAWN BY<br>M. NABEI       | DATE<br>'05/07/21                                                                                                                |
| CHECKED BY<br>K. TOYODA    | DATE<br>'05/07/21                                                                                                                |
| APPROVED BY<br>N. UKITA    | DATE<br>'05/07/21                                                                                                                |
| MATERIAL NO.<br>SEE TABLE  |                                                                                                                                  |
| SIZE<br>A3                 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |

|                                               |                           |                     |
|-----------------------------------------------|---------------------------|---------------------|
| SCALE<br>---                                  | 52610-**-15               | MODEL NO.           |
| DESIGN UNITS<br>METRIC                        | THIRD ANGLE<br>PROJECTION |                     |
| 1.0 FPC CONN ZIF<br>FOR SMT ST<br>-LEAD FREE- |                           |                     |
| MOLEX INCORPORATED                            |                           |                     |
| DOCUMENT NO.<br>SD-52610-036                  |                           | SHEET NO.<br>1 OF 2 |



注記 (NOTES) :

1. 材料 (MATERIAL)

ハウジング (HOUSING) : 46NYLON , UL94V-0  
アクチュエータ (ACTUATOR) : PPS , UL94V-0  
ターミナル (TERMINAL) : リン青銅 (tO. 32)

PHOS-BRO

接点部 : 金メッキ 0.1μm 以上

テール部 : 錫メッキ 1μm 以上

下地 : ニッケルメッキ 1μm 以上

CONTACT : GOLD 0.1 MICROMETER MINIMUM

TAIL : MATTE TIN 1 MICROMETER MINIMUM

NICKEL : UNDER 1 MICROMETER MINIMUM

2. エンボステープ梱包時は、アクチュエータがロックした状態とする。  
IN THE PACKAGE , ACTUATOR OF PART NO. 52610-\*\*59 SHOULD BE LOCKED.

3. ソルダータール半田付け面のズレ量は、基準面 [F] に対し上方向 0.05 MAX.  
下方向 0.15 MAX. とする。  
MISALIGNMENT OF SOLDER TAILS FROM [F] UPPER DIRECTION : 0.05 MAX. ,  
LOWER DIRECTION : 0.15 MAX.

4. 偶数極に適用。  
APPLY FOR EVEN CIRCUIT.

5. 本製品は 52610 シリーズの接点金メッキ品である。  
THIS PRODUCT IS Au-CONTACT OF 52610 SERIES.

|      |       |      |    |            |            |            |    |
|------|-------|------|----|------------|------------|------------|----|
| 36.6 | 34.85 | 31.2 | 29 | 52610-3077 | 52610-3072 | 52610-3015 | 30 |
| 32.6 | 30.85 | 27.2 | 25 | 52610-2677 | 52610-2672 | 52610-2615 | 26 |
| 31.6 | 29.85 | 26.2 | 24 | 52610-2577 | 52610-2572 | 52610-2515 | 25 |
| 30.6 | 28.85 | 25.2 | 23 | 52610-2477 | 52610-2472 | 52610-2415 | 24 |
| 28.6 | 26.85 | 23.2 | 21 | 52610-2277 | 52610-2272 | 52610-2215 | 22 |
| 26.6 | 24.85 | 21.2 | 19 | 52610-2077 | 52610-2072 | 52610-2015 | 20 |
| 24.6 | 22.85 | 19.2 | 17 | 52610-1877 | 52610-1872 | 52610-1815 | 18 |
| 23.6 | 21.85 | 18.2 | 16 | 52610-1777 | 52610-1772 | 52610-1715 | 17 |
| 22.6 | 20.85 | 17.2 | 15 | 52610-1677 | 52610-1672 | 52610-1615 | 16 |
| 21.6 | 19.85 | 16.2 | 14 | 52610-1577 | 52610-1572 | 52610-1515 | 15 |
| 20.6 | 18.85 | 15.2 | 13 | 52610-1477 | 52610-1472 | 52610-1415 | 14 |
| 19.6 | 17.85 | 14.2 | 12 | 52610-1377 | 52610-1372 | 52610-1315 | 13 |
| 18.6 | 16.85 | 13.2 | 11 | 52610-1277 | 52610-1272 | 52610-1215 | 12 |
| 17.6 | 15.85 | 12.2 | 10 | 52610-1177 | 52610-1172 | 52610-1115 | 11 |
| 16.6 | 14.85 | 11.2 | 9  | 52610-1077 | 52610-1072 | 52610-1015 | 10 |
| 15.6 | 13.85 | 10.2 | 8  | 52610-0977 | 52610-0972 | 52610-0915 | 9  |
| 14.6 | 12.85 | 9.2  | 7  | 52610-0877 | 52610-0872 | 52610-0815 | 8  |
| 12.6 | 10.85 | 7.2  | 5  | 52610-0677 | 52610-0672 | 52610-0615 | 6  |
| 11.6 | 9.85  | 6.2  | 4  | 52610-0577 | 52610-0572 | 52610-0515 | 5  |

|            |  |   |  |     |   |     |                                |                                                                                                                               |               |                     |
|------------|--|---|--|-----|---|-----|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------|
| 52610-**15 |  | D |  | (C) | B | (A) | EMBOSSD TAP (HIGH BARRIER PKG) | EMBOSSD TAP                                                                                                                   | MATERIAL. NO. | 極数<br>CKT.          |
| MODEL NO.  |  |   |  |     |   |     |                                | ORDER No. オーダー番号                                                                                                              |               |                     |
|            |  |   |  |     |   |     |                                | SCALE ---                                                                                                                     |               | DESIGN UNITS METRIC |
|            |  |   |  |     |   |     |                                | THIRD ANGLE PROJECTION                                                                                                        |               |                     |
|            |  |   |  |     |   |     |                                | 1.0 FPC CONN ZIF FOR SMT ST -LEAD FREE-                                                                                       |               |                     |
|            |  |   |  |     |   |     |                                | MOLEX INCORPORATED                                                                                                            |               |                     |
|            |  |   |  |     |   |     |                                | DOCUMENT NO. SD-52610-036                                                                                                     |               | SHEET NO. 2 OF 2    |
|            |  |   |  |     |   |     |                                | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |               |                     |



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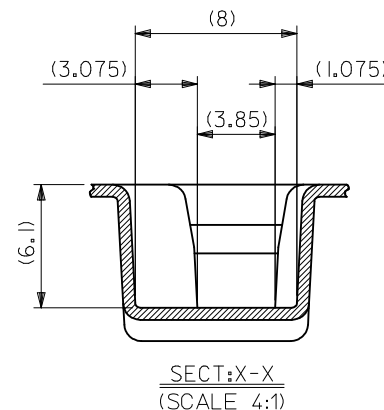
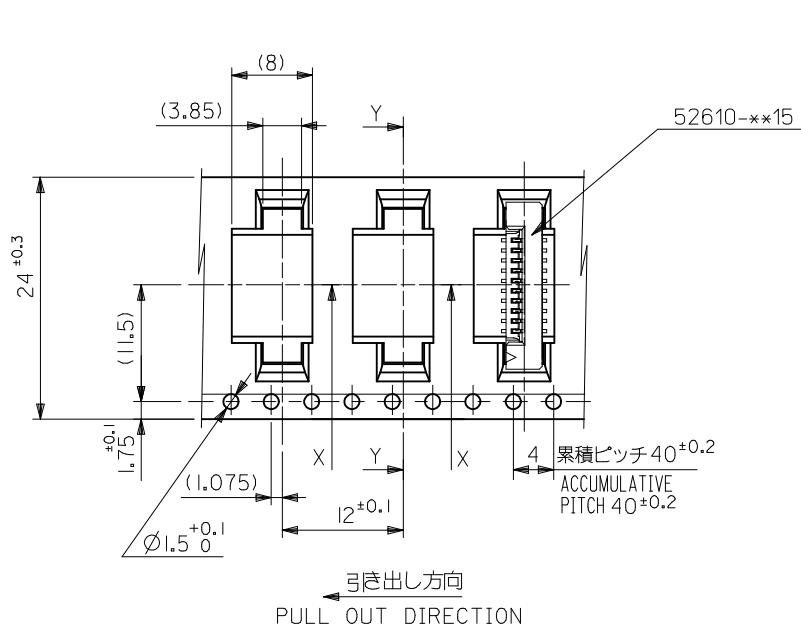
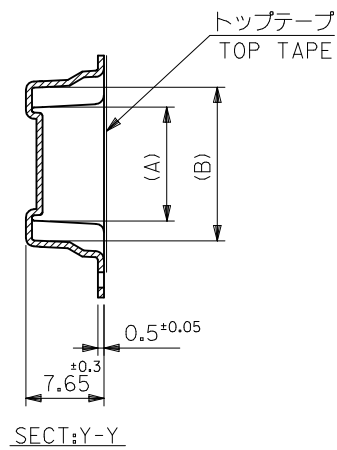
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52610-\*\*-72  
MODEL NO.

|                                |      |      |       |       |               |            |
|--------------------------------|------|------|-------|-------|---------------|------------|
| 24                             | 29.4 | 25.4 | 15.25 | 11.32 | 52610-1072    | 10         |
|                                |      |      | 14.25 | 10.32 | 52610-0972    | 9          |
|                                |      |      | 13.25 | 9.32  | 52610-0872    | 8          |
|                                |      |      | 11.25 | 7.32  | 52610-0672    | 6          |
|                                |      |      | 10.25 | 6.32  | 52610-0572    | 5          |
| キャリアテープ幅<br>CARRIER TAPE WIDTH | D    | C    | (B)   | (A)   | MATERIAL. NO. | 極数<br>CKT. |

|                                                                             |                                        |                    |                                                            |       |                            |                                                                                                                                  |                                                            |                        |                           |  |  |
|-----------------------------------------------------------------------------|----------------------------------------|--------------------|------------------------------------------------------------|-------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------|---------------------------|--|--|
| REVISED<br>EC NO: J2009-2061<br>DRWN:TKON<br>CHKD:HMATSUMOTO<br>APPR:NUKITA | 2009/05/20<br>2009/05/21<br>2009/05/21 | DESCRIPTION<br>REV | 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>M.NABEI        | DATE<br>'05/07/21                                                                                                                | TITLE<br>1.0 FPC CONN SMT ZIF<br>EMBSTP PKG<br>-LEAD FREE- |                        |                           |  |  |
|                                                                             |                                        |                    | 10 OVER 30 UNDER                                           | ±0.25 | CHECKED BY<br>K.TOYODA     | DATE<br>'05/07/21                                                                                                                |                                                            |                        |                           |  |  |
|                                                                             |                                        |                    | 30 OVER                                                    | ±0.3  | APPROVED BY<br>N.UKITA     | DATE<br>'05/07/21                                                                                                                | MOLEX MOLEX INCORPORATED                                   |                        |                           |  |  |
|                                                                             |                                        |                    | ANGULAR ±3 °                                               |       | MATERIAL NO.               |                                                                                                                                  | DOCUMENT NO.                                               |                        | SHEET NO.                 |  |  |
|                                                                             |                                        |                    | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       | SEE TABLE                  |                                                                                                                                  | SD-52610-037                                               |                        | 2 OF 5                    |  |  |
|                                                                             |                                        |                    |                                                            |       | 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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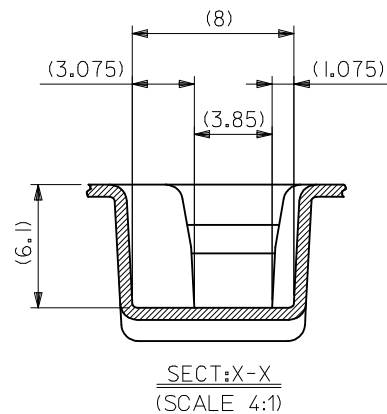
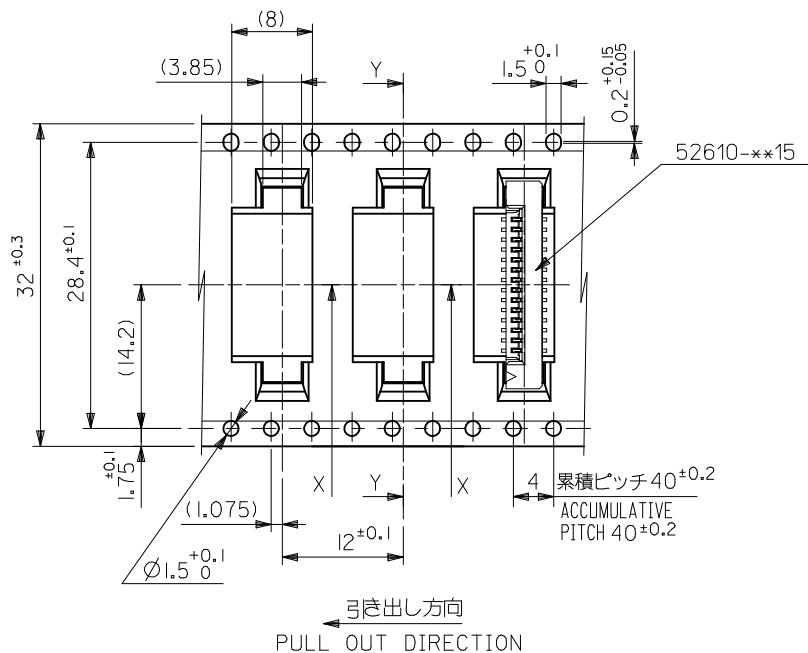
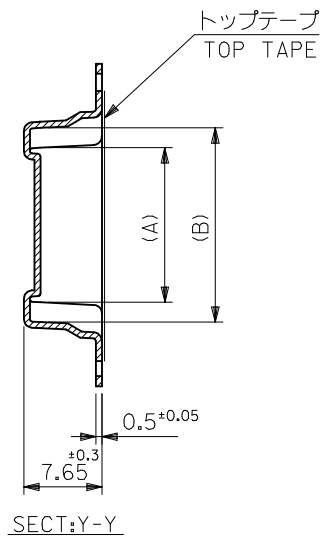
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52610-\*\*72  
MODEL NO.

|                                |      |      |       |       |               |            |
|--------------------------------|------|------|-------|-------|---------------|------------|
| 32                             | 37.4 | 33.4 | 20.25 | 16.32 | 52610-1572    | 15         |
|                                |      |      | 19.25 | 15.32 | 52610-1472    | 14         |
|                                |      |      | 18.25 | 14.32 | 52610-1372    | 13         |
|                                |      |      | 17.25 | 13.32 | 52610-1272    | 12         |
|                                |      |      | 16.25 | 12.32 | 52610-1172    | 11         |
| キャリアテープ幅<br>CARRIER TAPE WIDTH | D    | C    | (B)   | (A)   | MATERIAL. NO. | 極数<br>CKT. |

|                                                                             |             |                                                                                                                                  |        |                            |                   |                                                            |                        |                           |        |  |
|-----------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------|-------------------|------------------------------------------------------------|------------------------|---------------------------|--------|--|
| REVISED<br>EC NO: J2009-2061<br>DRWN:TKON<br>CHKD:HMATSUMOTO<br>APPR:NUKITA | 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>M.NABEI        | DATE<br>'05/07/21 | TITLE<br>1.0 FPC CONN SMT ZIF<br>EMBSTP PKG<br>-LEAD FREE- |                        |                           |        |  |
|                                                                             |             | 10 OVER 30 UNDER                                                                                                                 | ± 0.25 | CHECKED BY<br>K.TOYODA     | DATE<br>'05/07/21 |                                                            |                        |                           |        |  |
|                                                                             |             | 30 OVER                                                                                                                          | ± 0.3  | APPROVED BY<br>N.UKITA     | DATE<br>'05/07/21 | MOLEX INCORPORATED                                         |                        |                           |        |  |
|                                                                             |             | ANGULAR ±3 °                                                                                                                     |        | MATERIAL NO.               |                   |                                                            |                        |                           |        |  |
|                                                                             |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                       |        | SEE TABLE                  |                   | SD-52610-037                                               |                        |                           | 3 OF 5 |  |
|                                                                             | REV         | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |        |                            |                   |                                                            |                        |                           |        |  |

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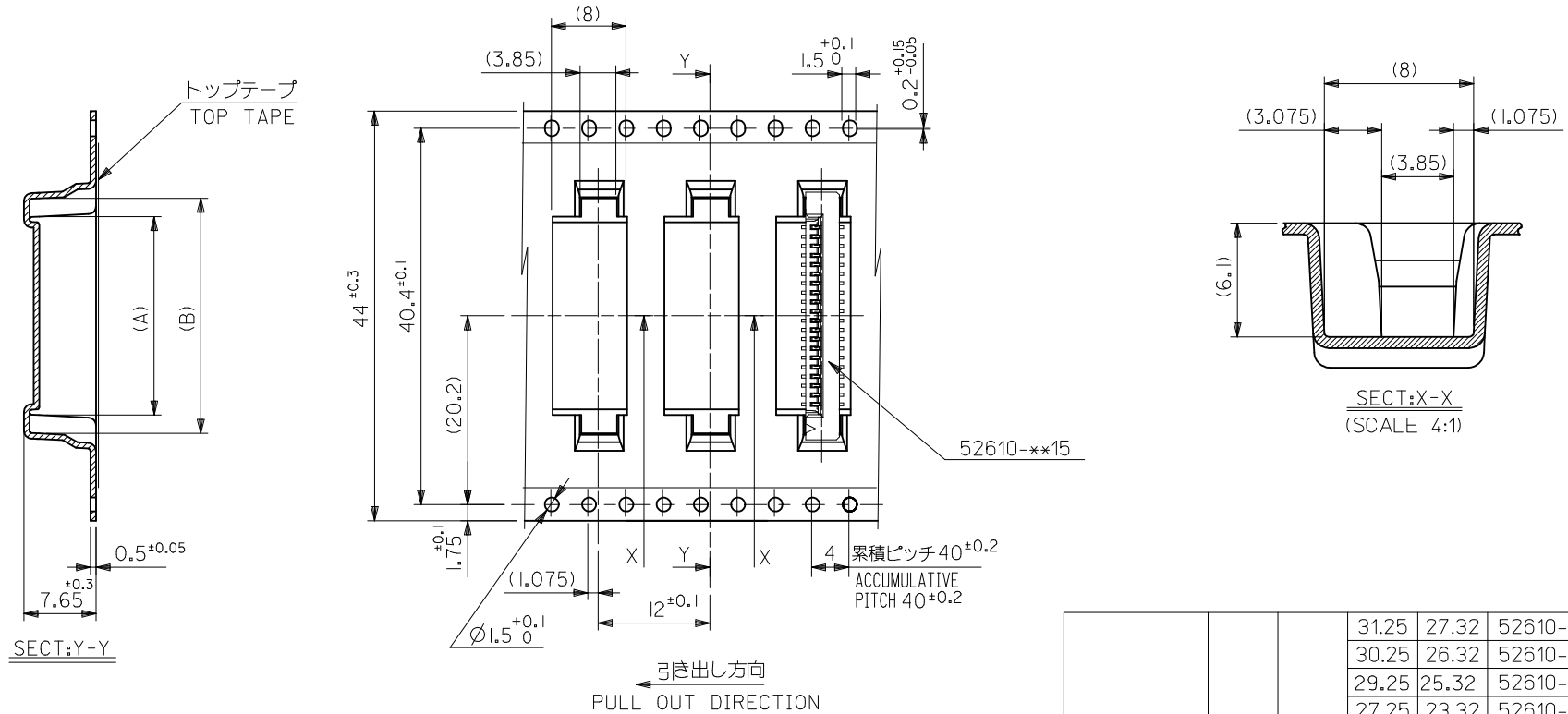
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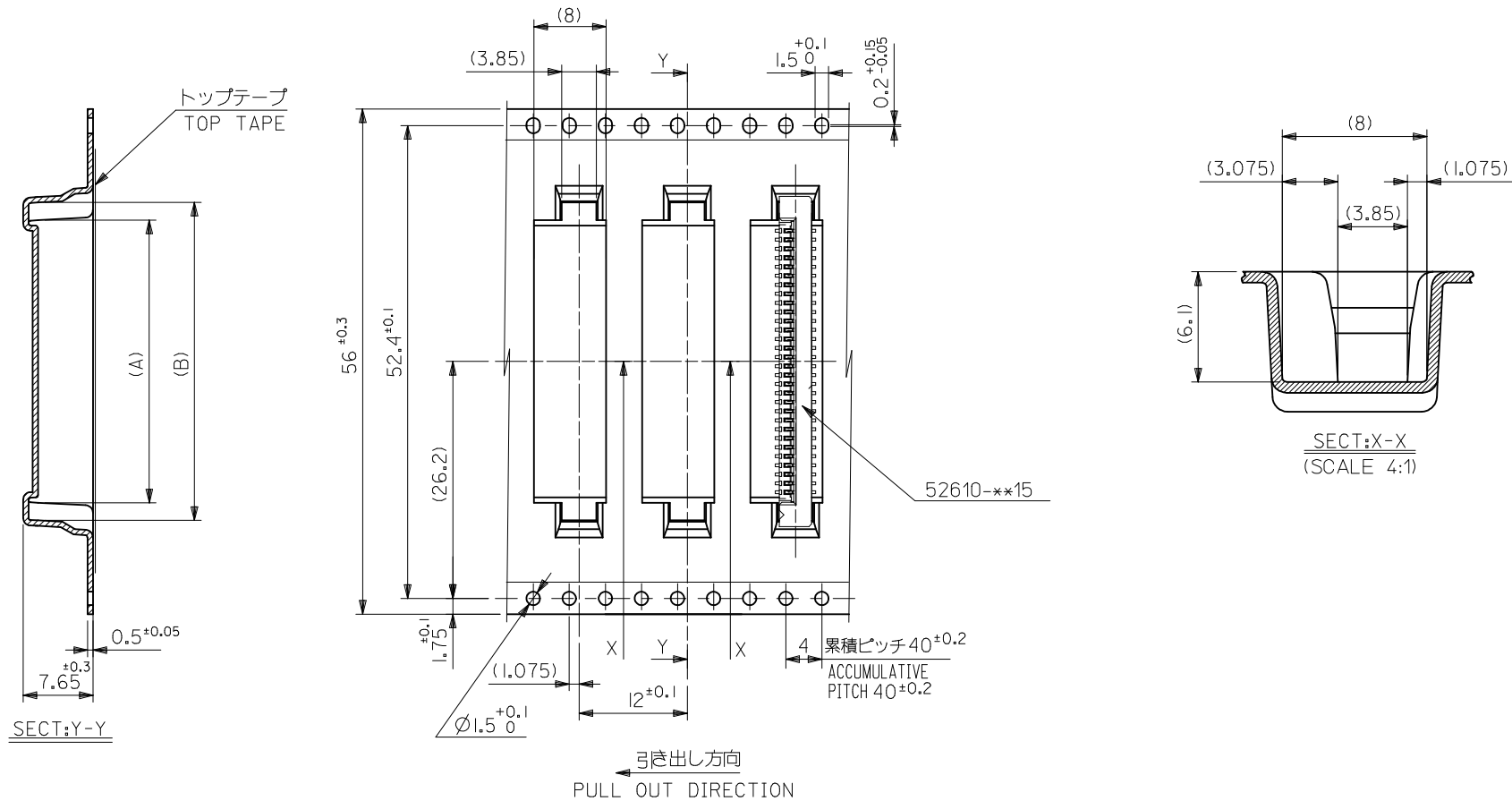
2



52610-\*\*-72  
MODEL NO.

|                                |      |      |       |       |               |            |
|--------------------------------|------|------|-------|-------|---------------|------------|
| 44                             | 49.4 | 45.4 | 31.25 | 27.32 | 52610-2672    | 26         |
|                                |      |      | 30.25 | 26.32 | 52610-2572    | 25         |
|                                |      |      | 29.25 | 25.32 | 52610-2472    | 24         |
|                                |      |      | 27.25 | 23.32 | 52610-2272    | 22         |
|                                |      |      | 25.25 | 21.32 | 52610-2072    | 20         |
|                                |      |      | 23.25 | 19.32 | 52610-1872    | 18         |
|                                |      |      | 22.25 | 18.32 | 52610-1772    | 17         |
|                                |      |      | 21.25 | 17.32 | 52610-1672    | 16         |
| キャリアテープ幅<br>CARRIER TAPE WIDTH | D    | C    | (B)   | (A)   | MATERIAL. NO. | 極数<br>CKT. |

|                                                                             |             |                                                            |       |                                                                                                                                  |                   |                                                             |                        |                           |  |  |
|-----------------------------------------------------------------------------|-------------|------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------|------------------------|---------------------------|--|--|
| REVISED<br>EC NO: J2009-2061<br>DRWN:TKON<br>CHKD:HMATSUMOTO<br>APPR:NUKITA | 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>M.NABEI                                                                                                              | DATE<br>'05/07/21 | TITLE<br>1.0 FPC CONN SMT ZIF<br>EMBOSTP PKG<br>-LEAD FREE- |                        |                           |  |  |
|                                                                             |             | 10 OVER 30 UNDER                                           | ±0.25 | CHECKED BY<br>K.TOYODA                                                                                                           | DATE<br>'05/07/21 |                                                             |                        |                           |  |  |
|                                                                             |             | 30 OVER                                                    | ±0.3  | APPROVED BY<br>N.UKITA                                                                                                           | DATE<br>'05/07/21 | MOLEX MOLEX INCORPORATED                                    |                        |                           |  |  |
|                                                                             |             | ANGULAR ±3 °                                               |       | MATERIAL NO.                                                                                                                     |                   | DOCUMENT NO.                                                |                        | SHEET NO.                 |  |  |
|                                                                             |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       | SEE TABLE                                                                                                                        |                   | SD-52610-037                                                |                        | 4 OF 5                    |  |  |
|                                                                             |             |                                                            |       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                   |                                                             |                        |                           |  |  |



|            |                                |      |      |       |       |               |            |
|------------|--------------------------------|------|------|-------|-------|---------------|------------|
| 52610-**72 | 56                             | 61.4 | 57.4 | 35.25 | 31.32 | 52610-3072    | 30         |
| MODEL NO.  | キャリアテープ幅<br>CARRIER TAPE WIDTH | D    | C    | (B)   | (A)   | MATERIAL. NO. | 極数<br>CKT. |

|                                                                                   |             |                                                            |        |                                                                                                                                  |                   |                                                            |                        |                           |  |  |
|-----------------------------------------------------------------------------------|-------------|------------------------------------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------------------------------------------------|------------------------|---------------------------|--|--|
| REVISED<br>EC NO: J2009-2061<br>DRWN:TKN<br>CHKD:HMATSUMOTO<br>APPR:NUKITA<br>REV | 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>M. NABEI                                                                                                             | DATE<br>'05/07/21 | TITLE<br>1.0 FPC CONN SMT ZIF<br>EMBSTP PKG<br>-LEAD FREE- |                        |                           |  |  |
|                                                                                   |             | 10 OVER 30 UNDER                                           | ± 0.25 | CHECKED BY<br>K. TOYODA                                                                                                          | DATE<br>'05/07/21 |                                                            |                        |                           |  |  |
|                                                                                   |             | 30 OVER                                                    | ± 0.3  | APPROVED BY<br>N. UKITA                                                                                                          | DATE<br>'05/07/21 | MOLEX INCORPORATED                                         |                        |                           |  |  |
|                                                                                   |             | ANGULAR ±3 °                                               |        | MATERIAL NO.                                                                                                                     |                   | DOCUMENT NO.                                               |                        | SHEET NO.                 |  |  |
|                                                                                   |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        | SEE TABLE                                                                                                                        |                   | SD-52610-037                                               |                        | 5 OF 5                    |  |  |
|                                                                                   |             | SIZE<br>A3                                                 |        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                   |                                                            |                        |                           |  |  |



## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

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