

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

**Part Number:** [0545501071](#)  
**Status:** **Active**  
**Overview:** [ffc\\_fpc\\_smt](#)  
**Description:** 0.50mm (.020") Pitch FFC/FPC Connector, 1.20mm (.047") Height, Right Angle, SMT, ZIF, Top Contact Style, 10 Circuits, Gold (Au) Contact Plating

**Documents:**

|                               |                                                          |
|-------------------------------|----------------------------------------------------------|
| <a href="#">3D Model</a>      | <a href="#">Product Specification PS-54550-012 (PDF)</a> |
| <a href="#">Drawing (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a>     |

**General**

|                |                             |
|----------------|-----------------------------|
| Product Family | FFC/FPC Connectors          |
| Series         | <a href="#">54550</a>       |
| Overview       | <a href="#">ffc_fpc_smt</a> |
| Product Name   | N/A                         |

**Physical**

|                                |                       |
|--------------------------------|-----------------------|
| Circuits (Loaded)              | 10                    |
| Contact Position               | Top                   |
| Durability (mating cycles max) | 20                    |
| Entry Angle                    | 90° Angle             |
| Mated Height (in)              | 0.047 In              |
| Mated Height (mm)              | 1.20 mm               |
| Material - Metal               | Phosphor Bronze       |
| Material - Plating Mating      | Gold                  |
| Material - Plating Termination | Tin                   |
| Number of Rows                 | 1                     |
| Orientation                    | Right Angle           |
| PCB Locator                    | No                    |
| PCB Retention                  | Yes                   |
| Packaging Type                 | Embossed Tape on Reel |
| Pitch - Mating Interface (in)  | 0.020 In              |
| Pitch - Mating Interface (mm)  | 0.50 mm               |
| Polarized to PCB               | Yes                   |
| Stackable                      | No                    |
| Temperature Range - Operating  | -20°C to +85°C        |
| Termination Interface: Style   | Surface Mount         |
| Wire/Cable Type                | FFC/FPC               |

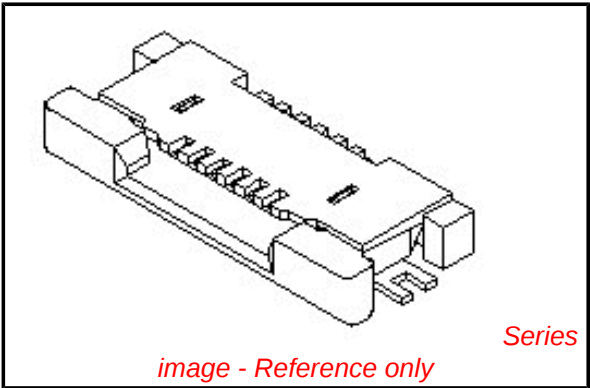
**Electrical**

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

**Material Info**

**Reference - Drawing Numbers**

|                         |                                                                                                        |
|-------------------------|--------------------------------------------------------------------------------------------------------|
| Packaging Specification | SPK-54550-056                                                                                          |
| Product Specification   | PS-54550-012, RPS-54550-078, RPS-54550-080, RPS-54550-083, RPS-54550-088, RPS-54550-089, RPS-54550-090 |
| Sales Drawing           | SD-54550-042, SD-54550-043                                                                             |



**EU RoHS**

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

**China RoHS**

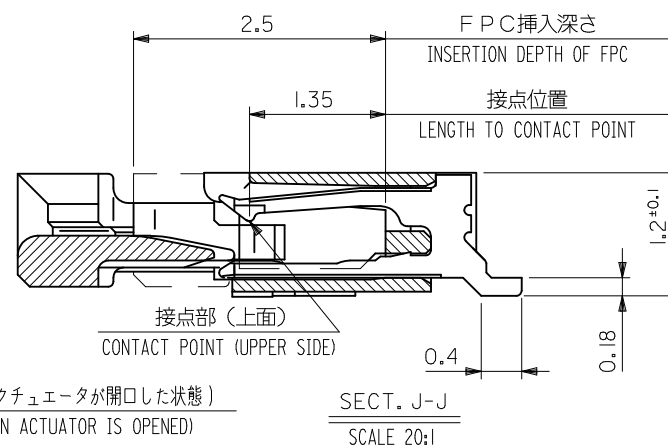
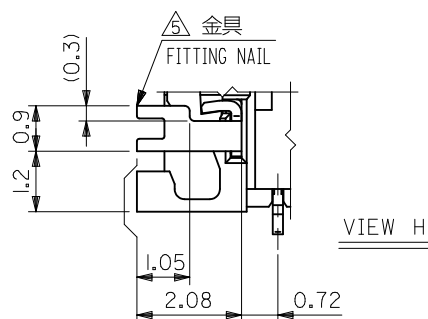
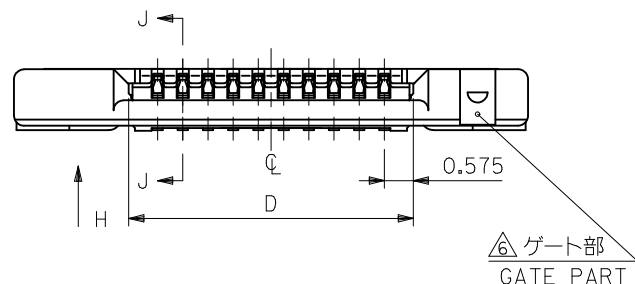
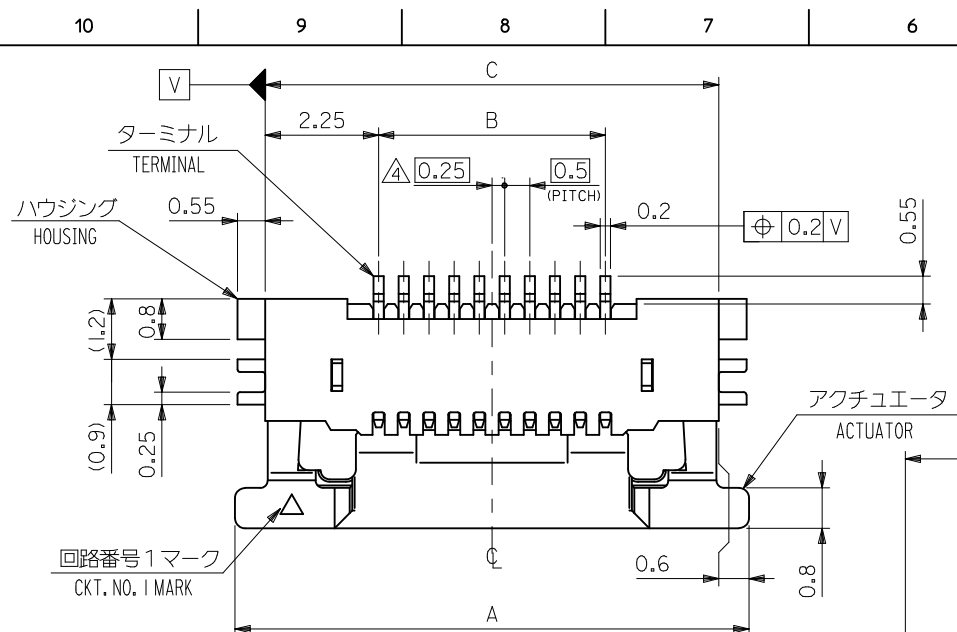


**Need more information on product  
environmental compliance?**

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

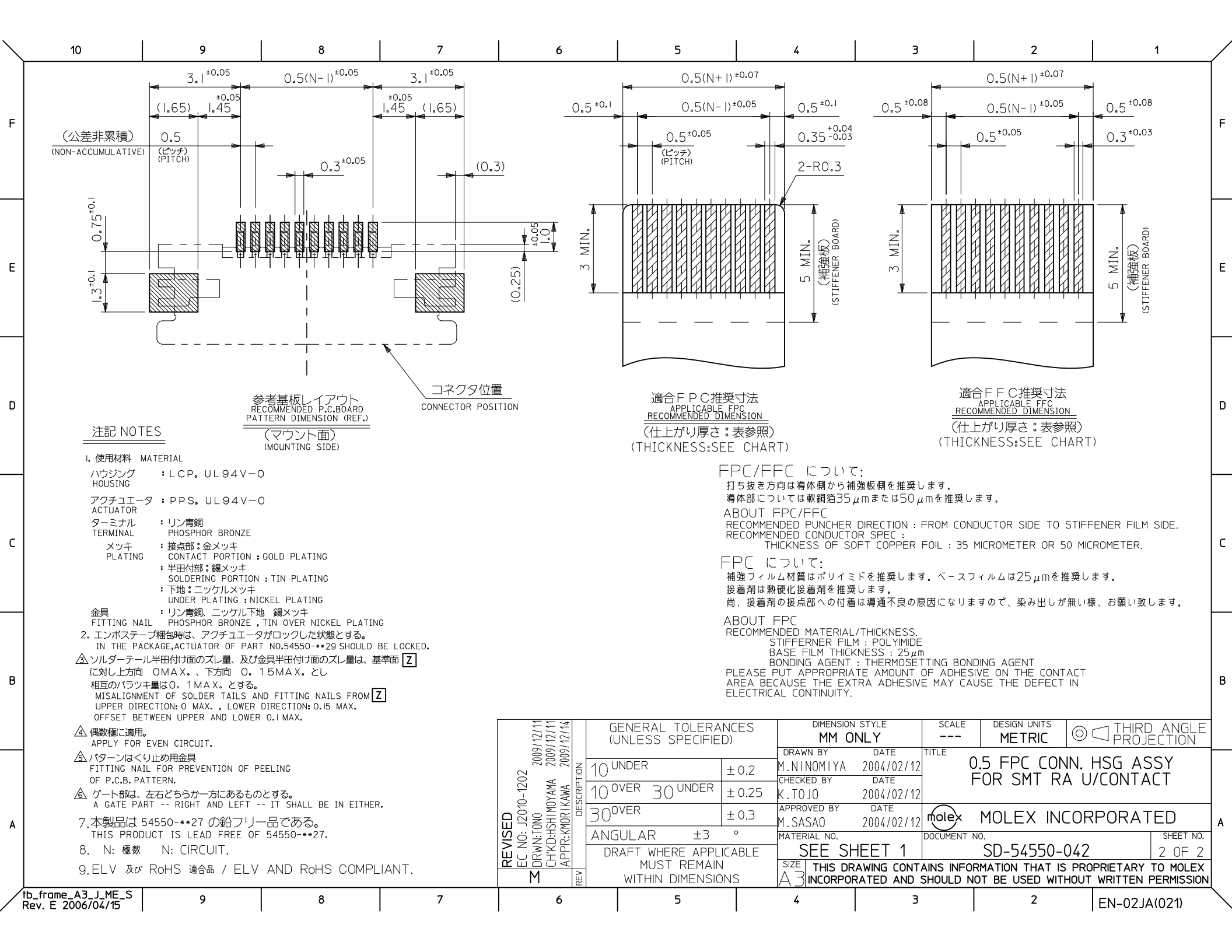
Please visit the [Contact Us](#) section for any  
non-product compliance questions.

**Search Parts in this Series**  
[54550Series](#)



|                      |       |      |      |            |                     |     |
|----------------------|-------|------|------|------------|---------------------|-----|
| 0.3 <sup>+0.03</sup> | 13.65 | 17   | 12.5 | 18.2       | 54550-2671          | 26  |
|                      | 12.65 | 16   | 11.5 | 17.2       | 54550-2471          | 24  |
|                      | 11.65 | 15   | 10.5 | 16.2       | 54550-2271          | 22  |
|                      | 11.15 | 14.5 | 10   | 15.7       | 54550-2171          | 21  |
|                      | 10.65 | 14   | 9.5  | 15.2       | 54550-2071          | 20  |
|                      | 10.15 | 13.5 | 9    | 14.7       | 54550-1971          | 19  |
|                      | 9.65  | 13   | 8.5  | 14.2       | 54550-1871          | 18  |
|                      | 9.15  | 12.5 | 8    | 13.7       | 54550-1771          | 17  |
|                      | 8.65  | 12   | 7.5  | 13.2       | 54550-1671          | 16  |
|                      | 7.65  | 11   | 6.5  | 12.2       | 54550-1471          | 14  |
|                      | 7.15  | 10.5 | 6    | 11.7       | 54550-1371          | 13  |
|                      | 6.65  | 10   | 5.5  | 11.2       | 54550-1271          | 12  |
|                      | 6.15  | 9.5  | 5    | 10.7       | 54550-1171          | 11  |
|                      | 5.65  | 9    | 4.5  | 10.2       | 54550-1071          | 10  |
|                      | 5.15  | 8.5  | 4    | 9.7        | 54550-0971          | 9   |
|                      | 4.65  | 8    | 3.5  | 9.2        | 54550-0871          | 8   |
|                      | 4.15  | 7.5  | 3    | 8.7        | 54550-0771          | 7   |
|                      | 3.65  | 7    | 2.5  | 8.2        | 54550-0671          | 6   |
| 3.15                 | 6.5   | 2    | 7.7  | 54550-0571 | 5                   |     |
| 2.65                 | 6     | 1.5  | 7.2  | 54550-0471 | 4                   |     |
| THICKNESS<br>OF FPC  | D     | C    | B    | A          | EMBOSSED TAPE       | 極数  |
|                      |       |      |      |            | ORDER No.    オーダー番号 | Ckt |

|         |                   |                                                      |                                        |             |                                                                                                                               |        |                            |                    |                                                         |                        |                                                                 |  |
|---------|-------------------|------------------------------------------------------|----------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------|--------------------|---------------------------------------------------------|------------------------|-----------------------------------------------------------------|--|
| REVISED | EC NO: J2010-1202 | DRAWN: TONO<br>CHKD: HSHI MOYAMA<br>APPR: KMORI KAWA | 2009/12/11<br>2009/12/11<br>2009/12/14 | DESCRIPTION | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                         |        | DIMENSION STYLE<br>MM ONLY |                    | SCALE<br>10:1                                           | DESIGN UNITS<br>METRIC | CONNECTION FOR SERIES NO. 34550-***29<br>THIRD ANGLE PROJECTION |  |
|         |                   |                                                      |                                        |             | 10 UNDER                                                                                                                      | ± 0.2  | DRAWN BY<br>M. NINOMIYA    | DATE<br>2004/02/12 | TITLE<br>0.5 FPC CONN. HSG ASSY<br>FOR SMT RA U/CONTACT |                        |                                                                 |  |
|         |                   |                                                      |                                        |             | 10 OVER 30 UNDER                                                                                                              | ± 0.25 | CHECKED BY<br>K. TOJO      | DATE<br>2004/02/12 |                                                         |                        |                                                                 |  |
|         |                   |                                                      |                                        |             | 30 OVER                                                                                                                       | ± 0.3  | APPROVED BY<br>M. SASAO    | DATE<br>2004/02/12 | MOLEX INCORPORATED                                      |                        |                                                                 |  |
|         |                   |                                                      |                                        |             | ANGULAR ±3 °                                                                                                                  |        | MATERIAL NO.               |                    |                                                         |                        |                                                                 |  |
|         |                   |                                                      |                                        |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                    |        | SEE TABLE                  |                    | SD-54550-042                                            |                        | 1 OF 2                                                          |  |
| REV     |                   |                                                      |                                        | SIZE<br>A3  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |        |                            |                    |                                                         |                        |                                                                 |  |



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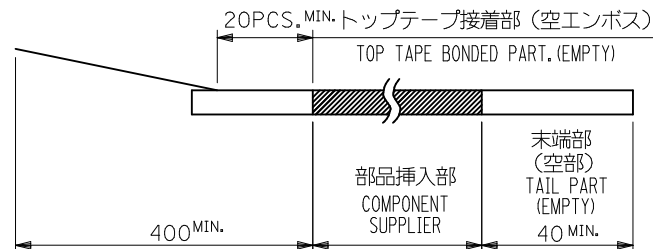
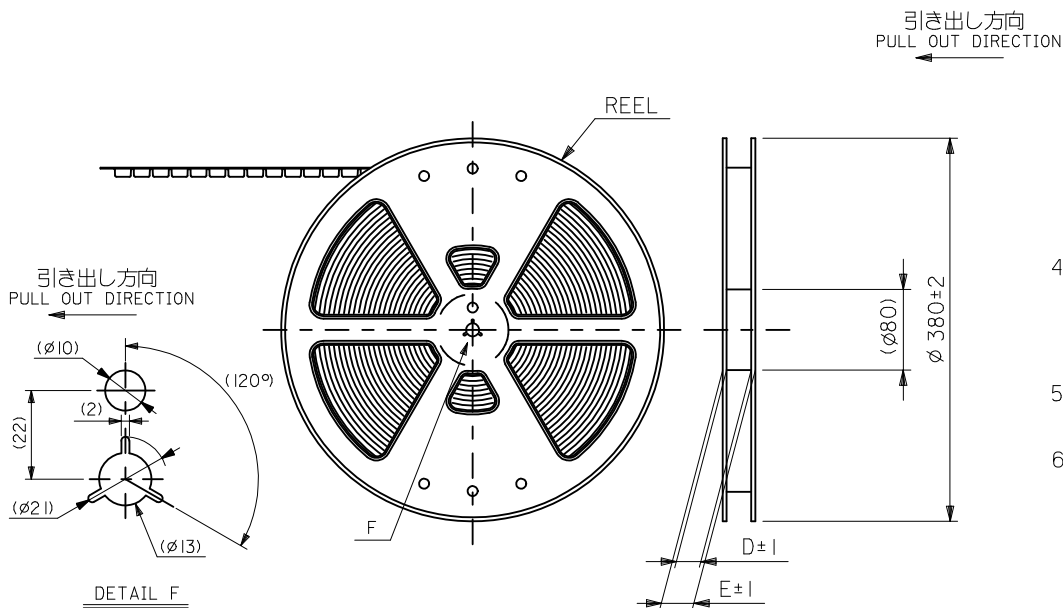
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## NOTES

- 製品詳細寸法については図面 SD-54550-042 を参照下さい。  
RE DETAILED DIMENSION, SEE SD-54550-042.
- 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



- 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 (TOP TAPE) : 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 (P.S) <RECYCLE MATERIAL CONTAINED>
- 本製品は 54550-\*\*9I の鉛フリー品である。  
THIS PRODUCT IS LEAD FREE OF 54550-\*\*9I.
- ELV 及び RoHS 適合品 / ELV AND RoHS COMPLIANT.

|                                                                                      |             |                                                            |       |                            |                    |                                                                                                          |                        |                                                                                                                 |              |
|--------------------------------------------------------------------------------------|-------------|------------------------------------------------------------|-------|----------------------------|--------------------|----------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|--------------|
| REVISED<br>EC NO: J2010-1202<br>DRWN: TONO<br>CHKD: SHIMOMIYAMA<br>APPR: KIMORI KAWA | 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. NINOMIYA    | DATE<br>2004/02/12 | TITLE<br>EMBSTP PKG FOR 0.5 FPC<br>CONN ZIF UPR CONT                                                     |                        |                                                                                                                 |              |
|                                                                                      |             | 10 OVER 30 UNDER                                           | ±0.25 | CHECKED BY<br>K. TOJO      | DATE<br>2004/02/12 |                                                                                                          |                        |                                                                                                                 |              |
|                                                                                      |             | 30 OVER                                                    | ±0.3  | APPROVED BY<br>M. SASAO    | DATE<br>2004/02/12 |  MOLEX INCORPORATED |                        |                                                                                                                 |              |
|                                                                                      |             | ANGULAR ±3 °                                               |       | MATERIAL NO.               |                    |                                                                                                          |                        |                                                                                                                 | DOCUMENT NO. |
|                                                                                      |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       | SEE SHEET 1 OR 2           |                    | SD-54550-043                                                                                             |                        |                                                                                                                 | 1 OF 3       |

|   |     |                                                                                                                                  |  |  |  |
|---|-----|----------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| L | REV | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |  |  |
|   |     | SIZE<br>A3                                                                                                                       |  |  |  |

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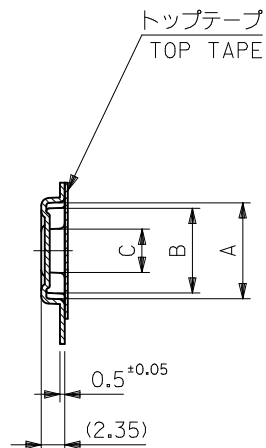
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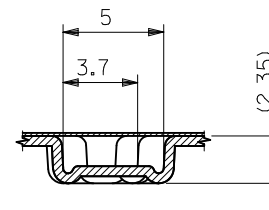
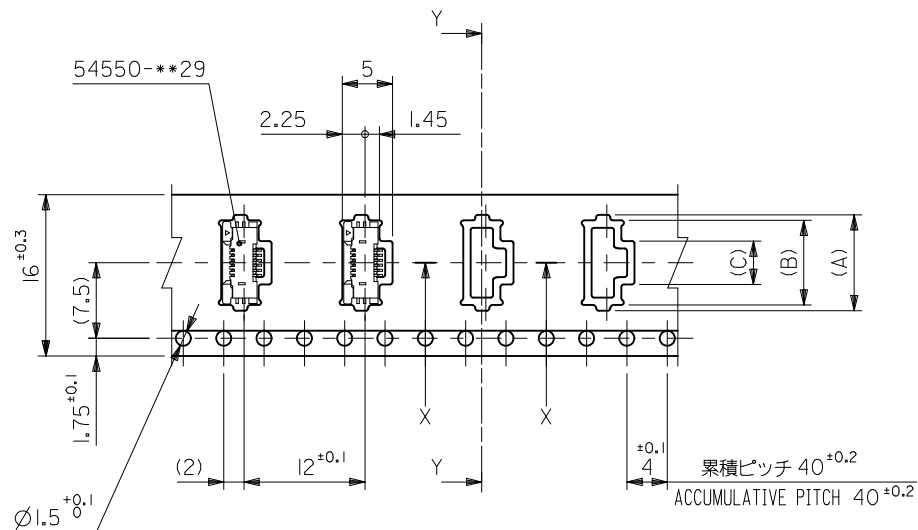
2

10 9 8 7 6 5 4 3 2 1

引き出し方向  
PULL OUT DIRECTION



SECT. Y-Y

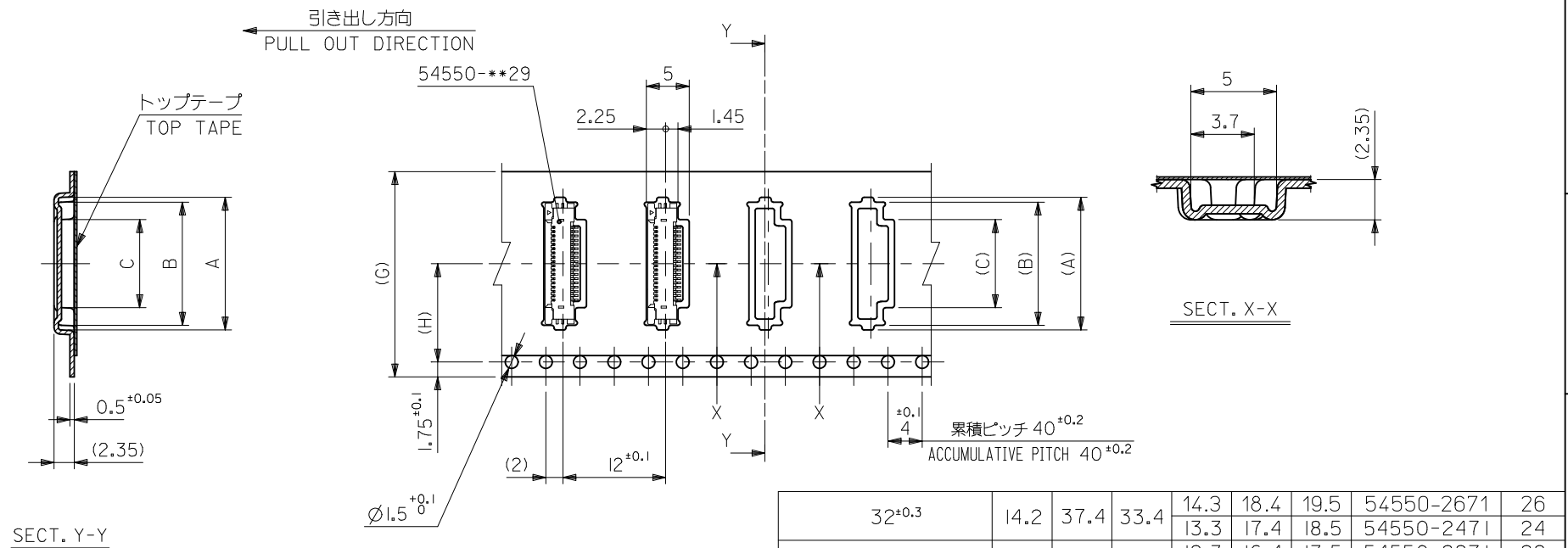


SECT. X-X

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

|                                |      |      |     |     |     |                      |           |
|--------------------------------|------|------|-----|-----|-----|----------------------|-----------|
| 16                             | 21.4 | 17.4 | 4.3 | 8.4 | 9.5 | 54550-0671           | 6         |
|                                |      |      | 3.8 | 7.9 | 9   | 54550-0571           | 5         |
|                                |      |      | 3.3 | 7.4 | 8.5 | 54550-0471           | 4         |
| キャリアテープ幅<br>CARRIER TAPE WIDTH | E    | D    | (C) | (B) | (A) | 製品番号<br>MATERIAL No. | 極数<br>Ckt |

|                                                                                                                                             |             |                                                                                                                                  |        |                            |                    |                                                      |                        |                           |        |  |
|---------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------|--------------------|------------------------------------------------------|------------------------|---------------------------|--------|--|
| REVISED<br>EC NO: J2010-1202<br>2009/12/11<br>DRWN: TONO<br>2009/12/11<br>CHKD: SHIMOMIYAMA<br>2009/12/11<br>APPR: KMORI KAWA<br>2009/12/14 | 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. NINOMIYA    | DATE<br>2004/02/12 | TITLE<br>EMBSTP PKG FOR 0.5 FPC<br>CONN ZIF UPR CONT |                        |                           |        |  |
|                                                                                                                                             |             | 10 OVER 30 UNDER                                                                                                                 | ± 0.25 | CHECKED BY<br>K. TOJO      | DATE<br>2004/02/12 |                                                      |                        |                           |        |  |
|                                                                                                                                             |             | 30 OVER                                                                                                                          | ± 0.3  | APPROVED BY<br>M. SASAO    | DATE<br>2004/02/12 | MOLEX INCORPORATED                                   |                        |                           |        |  |
|                                                                                                                                             |             | ANGULAR ±3 °                                                                                                                     |        | MATERIAL NO.               |                    |                                                      |                        |                           |        |  |
|                                                                                                                                             |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                       |        | SEE TABLE                  |                    | SD-54550-043                                         |                        |                           | 2 OF 3 |  |
|                                                                                                                                             | REV         | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |        |                            |                    |                                                      |                        |                           |        |  |



24, 32mm幅キャリアテープ  
24mm, 32mm WIDTH CARRIER TAPE

|                                  |      |      |      |      |      |      |                      |           |
|----------------------------------|------|------|------|------|------|------|----------------------|-----------|
| 24 <sup>+0.3</sup>               | 11.5 | 29.4 | 25.4 | 14.3 | 18.4 | 19.5 | 54550-2671           | 26        |
|                                  |      |      |      | 13.3 | 17.4 | 18.5 | 54550-2471           | 24        |
|                                  |      |      |      | 12.3 | 16.4 | 17.5 | 54550-2271           | 22        |
|                                  |      |      |      | 11.8 | 15.9 | 17   | 54550-2171           | 21        |
|                                  |      |      |      | 11.3 | 15.4 | 16.5 | 54550-2071           | 20        |
|                                  |      |      |      | 10.8 | 14.9 | 16   | 54550-1971           | 19        |
|                                  |      |      |      | 10.3 | 14.4 | 15.5 | 54550-1871           | 18        |
|                                  |      |      |      | 9.8  | 13.9 | 15   | 54550-1771           | 17        |
|                                  |      |      |      | 9.3  | 13.4 | 14.5 | 54550-1671           | 16        |
|                                  |      |      |      | 8.3  | 12.4 | 13.5 | 54550-1471           | 14        |
|                                  |      |      |      | 7.8  | 11.9 | 13   | 54550-1371           | 13        |
|                                  |      |      |      | 7.3  | 11.4 | 12.5 | 54550-1271           | 12        |
|                                  |      |      |      | 6.8  | 10.9 | 12   | 54550-1171           | 11        |
|                                  |      |      |      | 6.3  | 10.4 | 11.5 | 54550-1071           | 10        |
| G キャリアテープ幅<br>CARRIER TAPE WIDTH | H    | E    | D    | (C)  | (B)  | (A)  | 製品番号<br>MATERIAL No. | 極数<br>Ck+ |
|                                  |      |      |      | 5.8  | 9.9  | 11   | 54550-0971           | 9         |
|                                  |      |      |      | 5.3  | 9.4  | 10.5 | 54550-0871           | 8         |
|                                  |      |      |      | 4.8  | 8.9  | 10   | 54550-0771           | 7         |

REVISED

EC NO: J2010-1202

DRWN: TONO 2009/12/11

CHKD: SHIMOMIYAMA 2009/12/11

APPR: KMORI KAWA 2009/12/14

DESCRIPTION

10 UNDER ±0.2

10 OVER 30 UNDER ±0.25

30 OVER ±0.3

ANGULAR ±3 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

GENERAL TOLERANCES (UNLESS SPECIFIED)

10 UNDER ±0.2

10 OVER 30 UNDER ±0.25

30 OVER ±0.3

ANGULAR ±3 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE

MM ONLY

DRAWN BY M. NINOMIYA

DATE 2004/02/12

CHECKED BY K. TOJO

DATE 2004/02/12

APPROVED BY M. SASAO

DATE 2004/02/12

MATERIAL NO.

SEE TABLE

SIZE A3

SCALE

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DESIGN UNITS

METRIC

THIRD ANGLE PROJECTION

EMBSTP PKG FOR 0.5 FPC CONN ZIF UPR CONT

MOLEX INCORPORATED

SD-54550-043

3 OF 3

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

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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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