

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

**Part Number:** [0545480871](#)  
**Status:** **Active**  
**Overview:** [ffc\\_fpc\\_smt](#)  
**Description:** 0.50mm (.020") Pitch FFC/FPC Connector, 1.20mm (.047") Height, Right Angle, SMT, ZIF, Bottom Contact Style, 8 Circuits, Lead-free, Gold (Au) Plating

**Documents:**

|                               |                                                          |
|-------------------------------|----------------------------------------------------------|
| <a href="#">3D Model</a>      | <a href="#">Product Specification PS-54548-039 (PDF)</a> |
| <a href="#">Drawing (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a>     |

**General**

|                |                             |
|----------------|-----------------------------|
| Product Family | FFC/FPC Connectors          |
| Series         | <a href="#">54548</a>       |
| Overview       | <a href="#">ffc_fpc_smt</a> |
| Product Name   | N/A                         |

**Physical**

|                                |                       |
|--------------------------------|-----------------------|
| Circuits (Loaded)              | 8                     |
| Contact Position               | Bottom                |
| 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               |

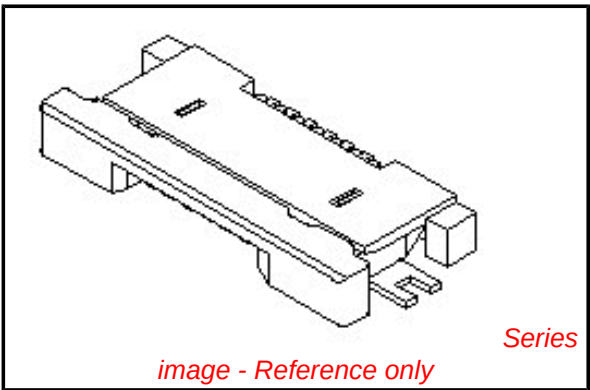
**Electrical**

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

**Material Info**

**Reference - Drawing Numbers**

|                         |                                                                          |
|-------------------------|--------------------------------------------------------------------------|
| Packaging Specification | SPK-54548-001                                                            |
| Product Specification   | PS-54548-039, RPS-54548-085, RPS-54548-097, RPS-54548-099, RPS-54548-102 |
| Sales Drawing           | SD-54548-039, SD-54548-040                                               |



**EU RoHS**

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

**China RoHS**

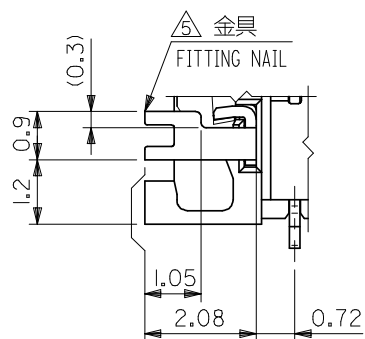
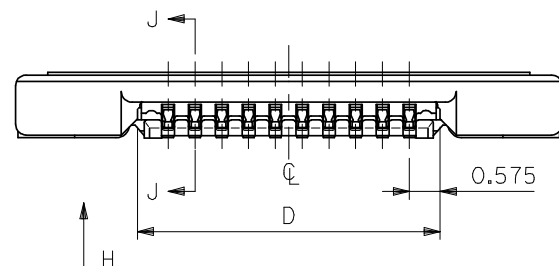
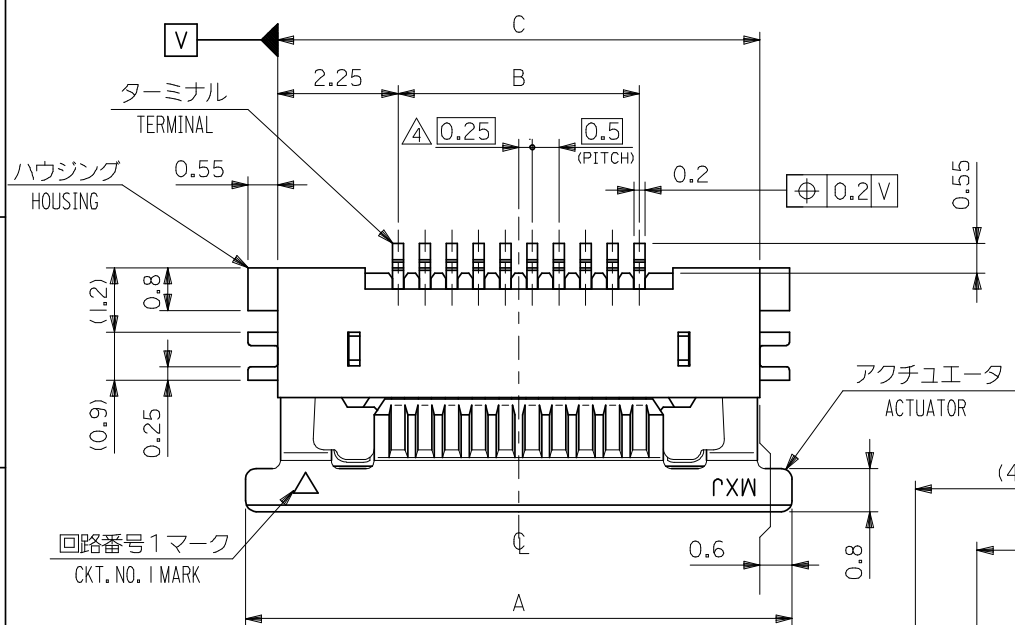


**Need more information on product  
environmental compliance?**

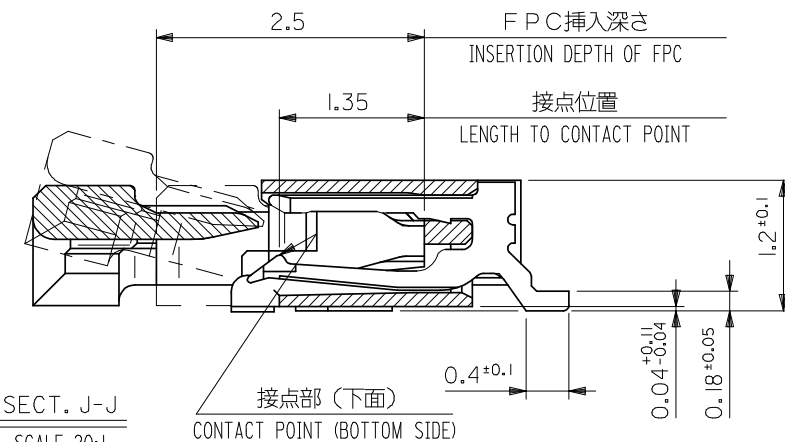
Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
For a multiple part number RoHS Certificate of  
Compliance, [click here](#)

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

**Search Parts in this Series**  
[54548Series](#)



VIEW H



SECT. J-J  
SCALE 20:1

|               |       |      |      |      |                                  |                      |           |
|---------------|-------|------|------|------|----------------------------------|----------------------|-----------|
| 0.28±0.03     | 13.65 | 17.0 | 12.5 | 18.2 | 54548-2671                       | 54548-2629           | 26        |
|               | 12.65 | 16.0 | 11.5 | 17.2 | 54548-2471                       | 54548-2429           | 24        |
| 0.3±0.03      | 12.15 | 15.5 | 11.0 | 16.7 | 54548-2371                       | 54548-2329           | 23        |
|               | 11.65 | 15.0 | 10.5 | 16.2 | 54548-2271                       | 54548-2229           | 22        |
|               | 11.15 | 14.5 | 10.0 | 15.7 | 54548-2171                       | 54548-2129           | 21        |
|               | 10.65 | 14.0 | 9.5  | 15.2 | 54548-2071                       | 54548-2029           | 20        |
|               | 10.15 | 13.5 | 9.0  | 14.7 | 54548-1971                       | 54548-1929           | 19        |
|               | 9.65  | 13.0 | 8.5  | 14.2 | 54548-1871                       | 54548-1829           | 18        |
|               | 9.15  | 12.5 | 8.0  | 13.7 | 54548-1771                       | 54548-1729           | 17        |
|               | 8.65  | 12.0 | 7.5  | 13.2 | 54548-1671                       | 54548-1629           | 16        |
|               | 8.15  | 11.5 | 7.0  | 12.7 | 54548-1571                       | 54548-1529           | 15        |
|               | 7.65  | 11.0 | 6.5  | 12.2 | 54548-1471                       | 54548-1429           | 14        |
|               | 7.15  | 10.5 | 6.0  | 11.7 | 54548-1371                       | 54548-1329           | 13        |
|               | 6.65  | 10.0 | 5.5  | 11.2 | 54548-1271                       | 54548-1229           | 12        |
|               | 6.15  | 9.5  | 5.0  | 10.7 | 54548-1171                       | 54548-1129           | 11        |
|               | 5.65  | 9.0  | 4.5  | 10.2 | 54548-1071                       | 54548-1029           | 10        |
|               | 5.15  | 8.5  | 4.0  | 9.7  | 54548-0971                       | 54548-0929           | 9         |
|               | 4.65  | 8.0  | 3.5  | 9.2  | 54548-0871                       | 54548-0829           | 8         |
|               | 4.15  | 7.5  | 3.0  | 8.7  | 54548-0771                       | 54548-0729           | 7         |
|               | 3.65  | 7.0  | 2.5  | 8.2  | 54548-0671                       | 54548-0629           | 6         |
|               | 3.15  | 6.5  | 2.0  | 7.7  | 54548-0571                       | 54548-0529           | 5         |
|               | 2.65  | 6.0  | 1.5  | 7.2  | 54548-0471                       | 54548-0429           | 4         |
| FPC THICKNESS | D     | C    | B    | A    | EMBOSSD TAPE<br>ORDER No. オーダー番号 | 製品番号<br>MATERIAL No. | 極数<br>Ck+ |

|            |           |
|------------|-----------|
| 54548-**29 | MODEL No. |
|------------|-----------|

|              |             |
|--------------|-------------|
| DESIGN UNITS | THIRD ANGLE |
| METRIC       | PROJECTION  |

0.5 FPC CONN ZIF HSG  
ASSY FOR SMT RA BTM CONT  
-LEAD FREE-

 MOLEX INCORPORATED

|                              |                     |
|------------------------------|---------------------|
| DOCUMENT NO.<br>SD-54548-039 | SHEET NO.<br>1 OF 2 |
|------------------------------|---------------------|

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

|         |                   |             |                                                            |        |
|---------|-------------------|-------------|------------------------------------------------------------|--------|
| REVISED | EC NO: J2008-4048 | DESCRIPTION | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |        |
|         | DRWN:WABEI        |             | 10 UNDER                                                   | ± 0.2  |
|         | CH'KD: THIRUYAMA  |             | 10 OVER 30 UNDER                                           | ± 0.25 |
|         | APPR: NUKITA      |             | 30 OVER                                                    | ± 0.3  |
|         |                   |             | ANGULAR                                                    | ± 3 °  |
|         |                   | REV         | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        |

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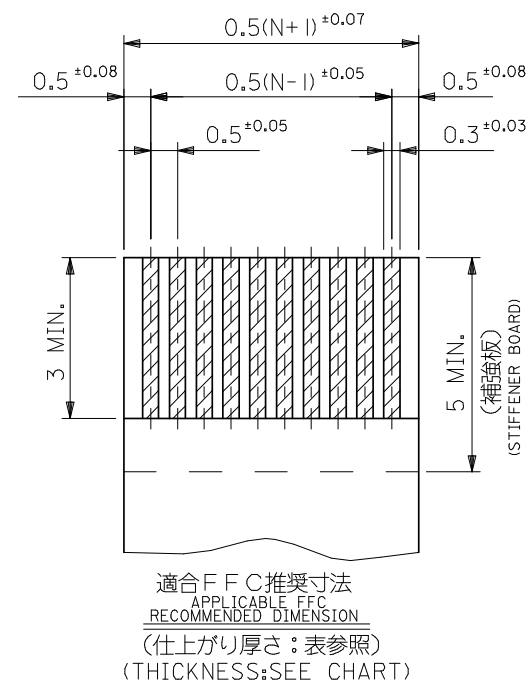
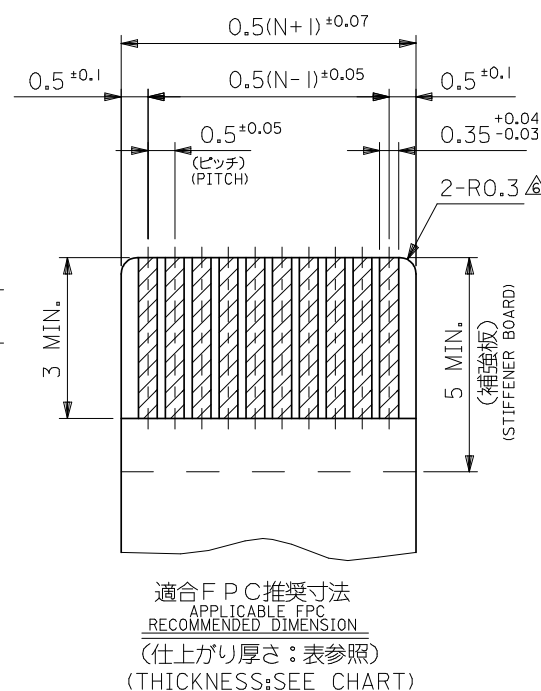
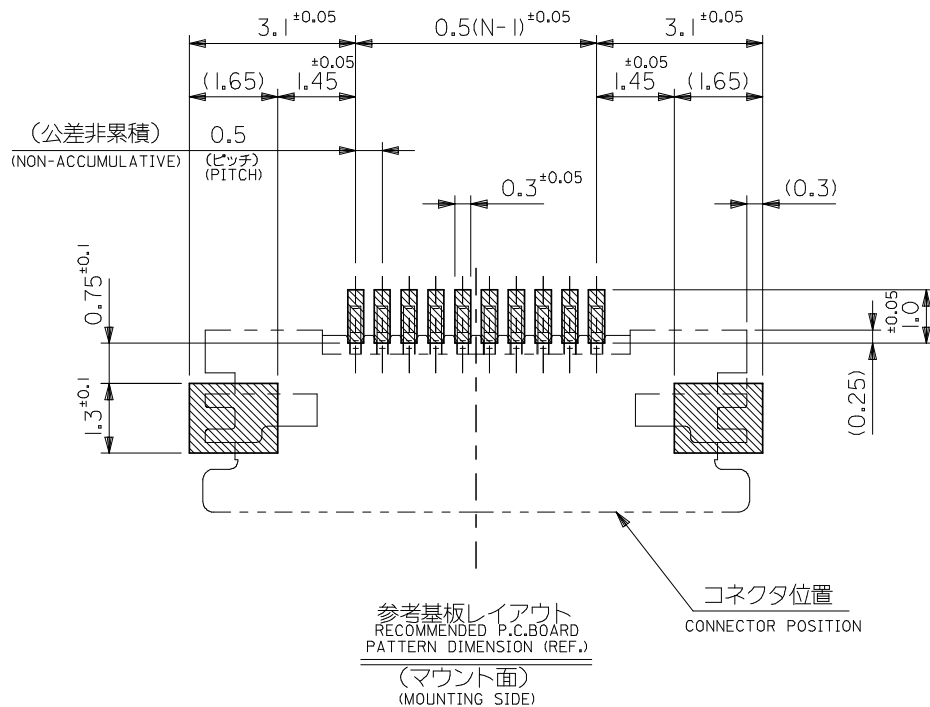
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## 注記 NOTES

### I. 使用材料 MATERIAL

ハウジング : LCP, UL94V-0  
ハウジング  
アクチュエータ : PPS, UL94V-0  
アクチュエータ  
ターミナル : リン青銅 (t=0.2)  
ターミナル  
メッキ : PHOSPOR BRONZE  
メッキ  
PLATING : 接点部: 金メッキ  
CONTACT PORTION : GOLD PLATING  
テール部: 鍍メッキ  
SOLDERING PORTION : TIN OVER PLATING  
下地: ニッケルメッキ  
UNDER PLATING: NICKEL PLATING  
金具 : リン青銅、鍍メッキ (t=0.2)  
金具  
FITTING NAIL : PHOSPOR BRONZE, TIN PLATING  
下地: ニッケルメッキ  
UNDER PLATING: NICKEL PLATING

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. 54548-\*\*-29 SHOULD BE LOCKED.  
⚠ ソルダータール半田付け面のズレ量、及び金具半田付け面のズレ量は、基準面 Z に対し上方向 0 MAX.、下方向 0.15 MAX.、とし  
相互のバツキ量は 0.1 MAX. とする。  
MISALIGNMENT OF SOLDER TAILS AND FITTING NAILS FROM Z  
UPPER DIRECTION: 0 MAX., LOWER DIRECTION: 0.15 MAX.  
OFFSET BETWEEN UPPER AND LOWER 0.1 MAX.

⚠ 偶数極に適用。  
APPLY FOR EVEN CIRCUIT.

⚠ パターンはくり止め用金具  
FITTING NAIL FOR PREVENTION OF PEELING  
OF P.C.B. PATTERN.  
⚠ RO.3 は FPC 導体部にかからないこと  
RO.3 MUST NOT BE OVERLAPPED TO PATTERN OF FPC.  
7. 本製品は 54548-\*\*-21 の鉛フリー (部分金メッキ) 品である。  
THIS PRODUCT IS LEAD FREE OF 54548-\*\*-21 (SELECTIVE GOLD).  
8. N: 極数 N: CIRCUIT.

### FPC/FFC について:

打ち抜き方向は導体側から補強板側を推奨します。  
導体部については軟銅箔 35 μm または 50 μm を推奨します。

### ABOUT FPC/FFC

RECOMMENDED PUNCHER DIRECTION : FROM CONDUCTOR SIDE TO STIFFENER FILM SIDE.  
RECOMMENDED CONDUCTOR SPEC :  
THICKNESS OF SOFT COPPER FOIL : 35 MICROMETER OR 50 MICROMETER.

### FPC について:

補強フィルム材質はポリイミドを推奨します。ベースフィルムは 25 μm を推奨します。  
接着剤は熱硬化接着剤を推奨します。  
尚、接着剤の接点部への付着は導通不良の原因になりますので、染み出しが無い様、お願い致します。

### ABOUT FPC

RECOMMENDED MATERIAL/THICKNESS.  
STIFFENER FILM : POLYIMIDE  
BASE FILM THICKNESS : 25 μm  
BONDING AGENT : THERMOSETTING BONDING AGENT  
PLEASE PUT APPROPRIATE AMOUNT OF ADHESIVE ON THE CONTACT AREA BECAUSE THE EXTRA ADHESIVE MAY CAUSE THE DEFECT IN ELECTRICAL CONTINUITY.

|                                                                                |             |                                                            |                             |                            |                                                                                                                                  |                                                                          |                        |                                                                                       |                                        |
|--------------------------------------------------------------------------------|-------------|------------------------------------------------------------|-----------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| REVISED<br>EC NO: J2008-4048<br>DRWN: WABEI<br>CHKD: THARUYAMA<br>APPR: NUKITA | DESCRIPTION | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |                             | DIMENSION STYLE<br>MM ONLY |                                                                                                                                  | SCALE<br>---                                                             | DESIGN UNITS<br>METRIC |  | MODEL NO.<br>THIRD ANGLE<br>PROJECTION |
|                                                                                |             | 10 UNDER                                                   | ± 0.2                       | DRAWN BY<br>HSHIMABUKURO   | DATE<br>'04/02/10                                                                                                                | TITLE<br>0.5 FPC CONN ZIF HSG<br>ASSY FOR SMT RA BTM CONT<br>-LEAD FREE- |                        |                                                                                       |                                        |
|                                                                                |             | 10 OVER 30 UNDER                                           | ± 0.25                      | CHECKED BY<br>KTOJO        | DATE<br>'04/02/10                                                                                                                |                                                                          |                        |                                                                                       |                                        |
|                                                                                |             | 30 OVER                                                    | ± 0.3                       | APPROVED BY<br>MSASAO      | DATE<br>'04/02/10                                                                                                                | molex MOLEX INCORPORATED                                                 |                        |                                                                                       |                                        |
|                                                                                |             | ANGULAR ±3 °                                               | MATERIAL NO.<br>SEE SHEET 1 |                            | DOCUMENT NO.<br>SD-54548-039                                                                                                     |                                                                          |                        |                                                                                       |                                        |
|                                                                                | REV         | 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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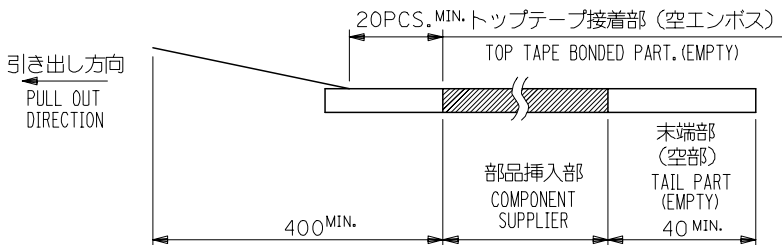
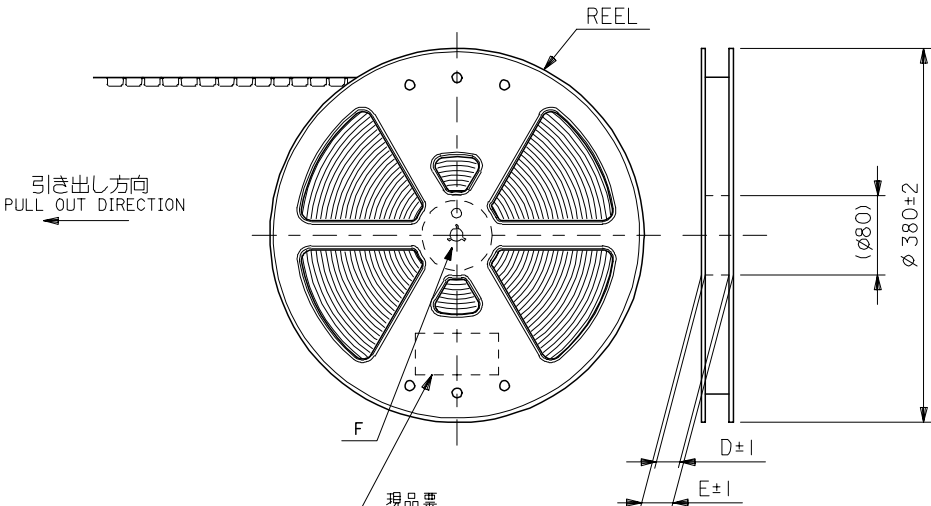
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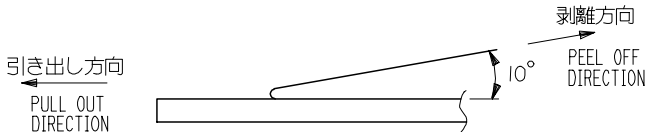
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NOTES

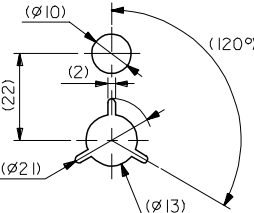
1. 製品詳細寸法については図面 SD-54548-039 を参照下さい。  
RE DETAILED DIMENSION, SEE SD-54548-039
2. 梱包数量：3000個/リール  
NUMBER OF CONNECTORS : 3000PCS/REEL
3. リードテープ長さ LEAD TAPE LENGTH



4. トップテープの剥離強度：0.1N ～ 1.3N(10gf ～ 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 : 0.1N ～ 1.3N(10gf ～ 130gf)  
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)  
THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT.  
PEEL OFF SHOULD NOT BE ALLOWED , DURING TRANSPORTATION.

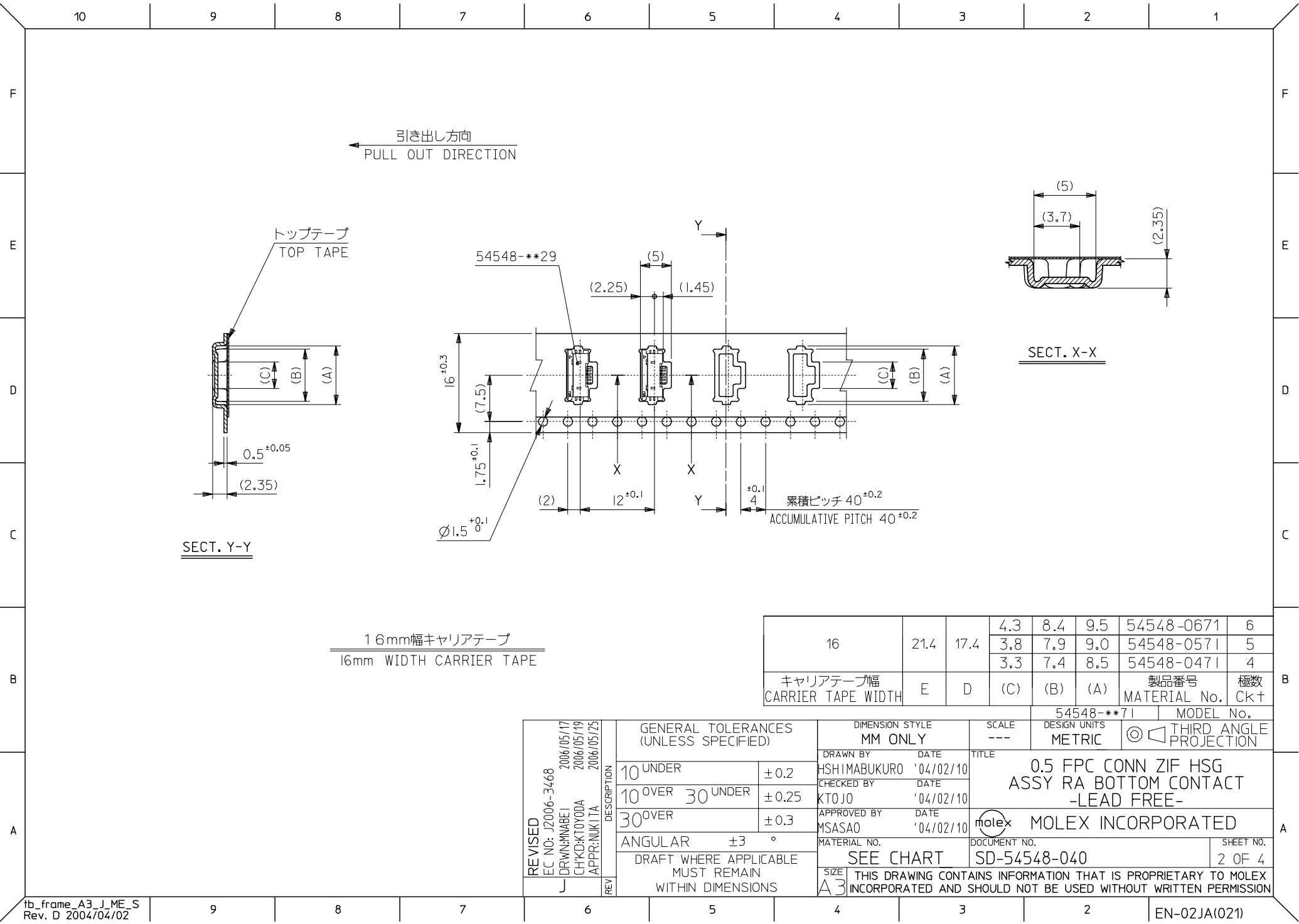


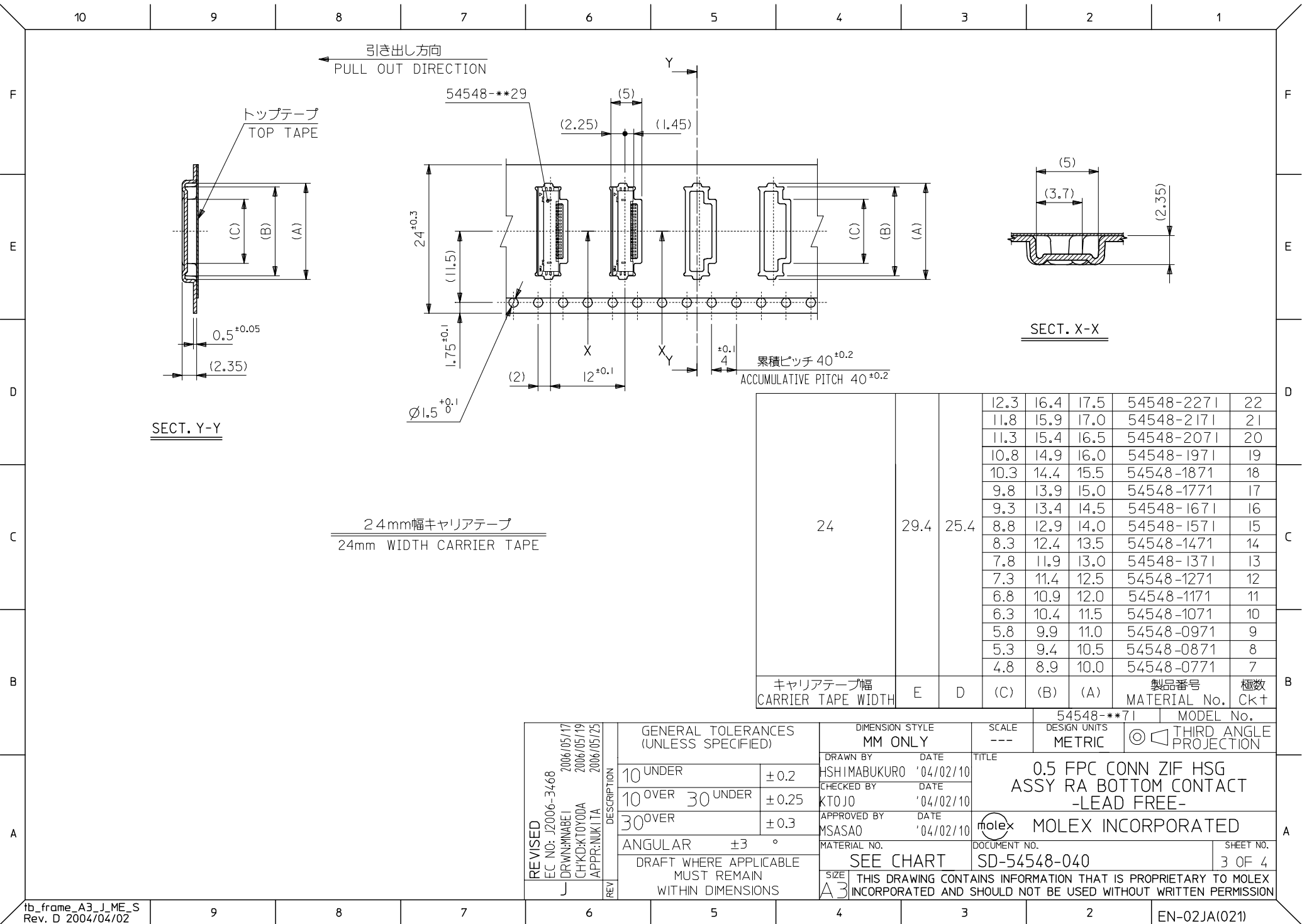
5. 材料(MATERIAL)  
キャリアテープ(CARRIER TAPE)：ポリプロピレン(POLYPROPYLENE)  
トップテープ(TOPTAPE)：PET , PE , PEF  
リール(REEL)：ポリスチレン (P S) <リサイクル材を含む>  
POLYSTYRENE(PS) <RECYCLE MATERIAL CONTAINED>
6. 本製品は 54548-\*\*-91 の鉛フリー(部分金メッキ)品である。  
THIS PRODUCT IS LEAD FREE OF 54548-\*\*-91 (SELECTIVE GOLD).

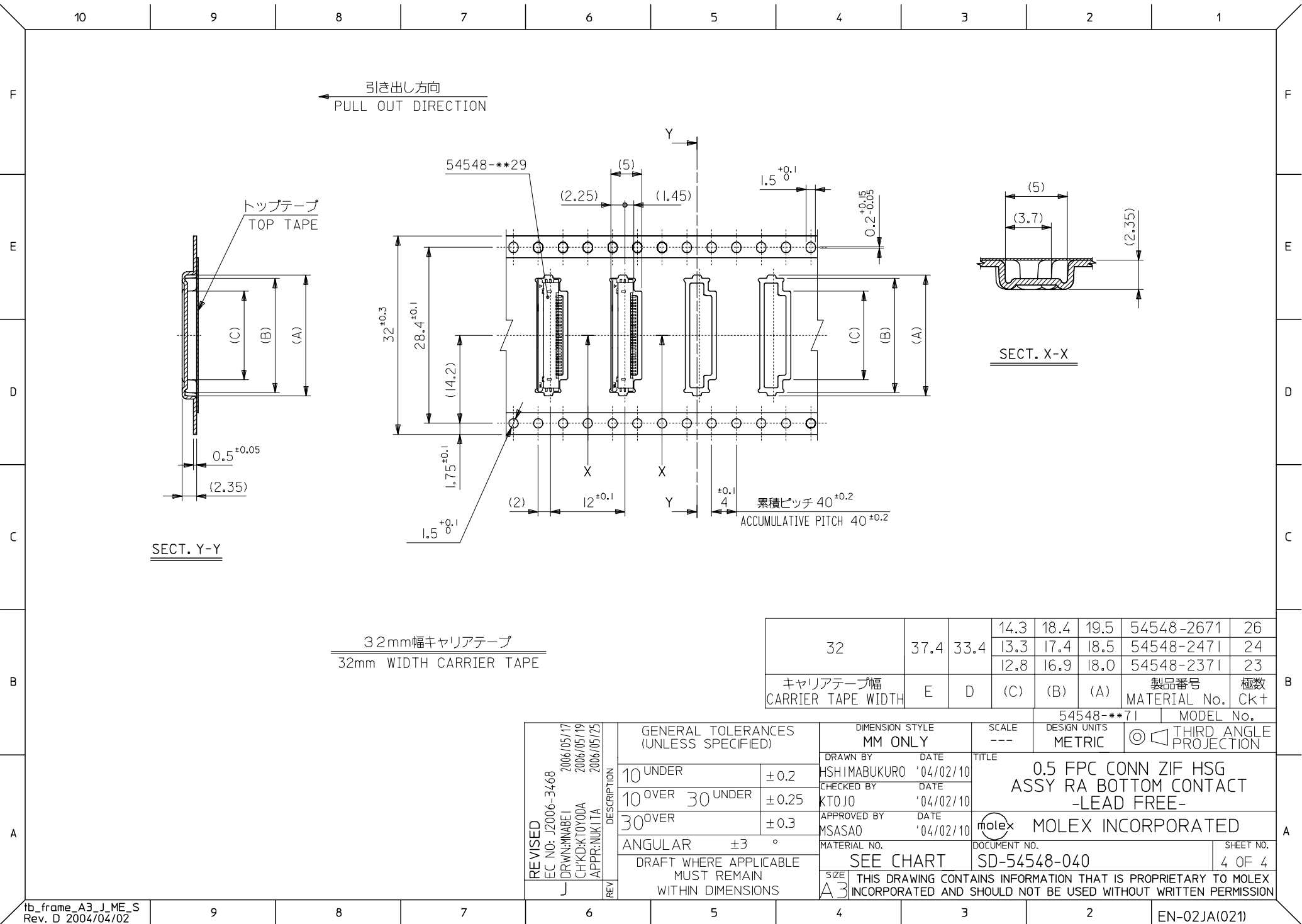


DETAIL F

|                                                                                                                                  |              |                                                            |              |                 |      |                                                                        |              |                           |           |        |  |
|----------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------------------------------------|--------------|-----------------|------|------------------------------------------------------------------------|--------------|---------------------------|-----------|--------|--|
| REVISED<br>EC NO: J2006-3468<br>DRAWN:MABEI 2006/05/17<br>CHKD:KTOYODA 2006/05/19<br>APPR:NUKITA 2006/05/25<br>J                 | DESCRIPTION  | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |              | DIMENSION STYLE |      | SCALE                                                                  | DESIGN UNITS |                           | MODEL No. |        |  |
|                                                                                                                                  |              |                                                            |              | MM ONLY         |      | ---                                                                    | METRIC       | THIRD ANGLE<br>PROJECTION |           |        |  |
|                                                                                                                                  |              | 10 UNDER                                                   | ±0.2         | DRAWN BY        | DATE | TITLE<br>0.5 FPC CONN ZIF HSG<br>ASSY RA BOTTOM CONTACT<br>-LEAD FREE- |              |                           |           |        |  |
|                                                                                                                                  |              | 10 OVER 30 UNDER                                           | ±0.25        | CHECKED BY      | DATE |                                                                        |              |                           |           |        |  |
|                                                                                                                                  |              | 30 OVER                                                    | ±0.3         | APPROVED BY     | DATE | MOLEX INCORPORATED                                                     |              |                           |           |        |  |
|                                                                                                                                  | ANGULAR ±3 ° | MATERIAL NO.                                               | DOCUMENT NO. | SHEET NO.       |      |                                                                        |              |                           |           |        |  |
|                                                                                                                                  | REV          | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |              | SEE CHART       |      | SD-54548-040                                                           |              |                           |           | 1 OF 4 |  |
| 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

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<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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