

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

**Part Number:** [0529010974](#)  
**Status:** **Active**  
**Description:** 0.635mm (.025") Pitch SlimStack™ Receptacle, Surface Mount, Dual Row, Vertical Stacking, 11.00 to 16.00mm (.433 to .630") Stacking Heights, Embossed Tape with Cover Packaging, 90 Circuits, Lead-free

**Documents:**

|                               |                                                          |
|-------------------------------|----------------------------------------------------------|
| <a href="#">3D Model</a>      | <a href="#">Product Specification PS-52760-015 (PDF)</a> |
| <a href="#">Drawing (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a>     |

**Agency Certification**

|    |        |
|----|--------|
| UL | E29179 |
|----|--------|

**General**

|                |                       |
|----------------|-----------------------|
| Product Family | PCB Receptacles       |
| Series         | <a href="#">52901</a> |
| Application    | Board-to-Board        |
| Product Name   | SlimStack™            |

**Physical**

|                                |                                        |
|--------------------------------|----------------------------------------|
| Circuits (Loaded)              | 90                                     |
| Color - Resin                  | White                                  |
| Durability (mating cycles max) | 50                                     |
| Flammability                   | 94V-0                                  |
| Glow-Wire Compliant            | No                                     |
| Lock to Mating Part            | None                                   |
| Mated Height (mm)              | 11.00 mm, 12.00 mm, 13.00 mm, 16.00 mm |
| Material - Metal               | Phosphor Bronze                        |
| Material - Plating Mating      | Gold                                   |
| Material - Plating Termination | Tin                                    |
| Number of Rows                 | 2                                      |
| Orientation                    | Vertical                               |
| PCB Locator                    | Yes                                    |
| PCB Retention                  | Yes                                    |
| Packaging Type                 | Embossed Tape on Reel                  |
| Pitch - Mating Interface (in)  | 0.025 In                               |
| Pitch - Mating Interface (mm)  | 0.64 mm                                |
| Polarized to PCB               | Yes                                    |
| Robotic Placement              | Pick and Place Cap                     |
| Temperature Range - Operating  | -55°C to +85°C                         |
| Termination Interface: Style   | Surface Mount                          |

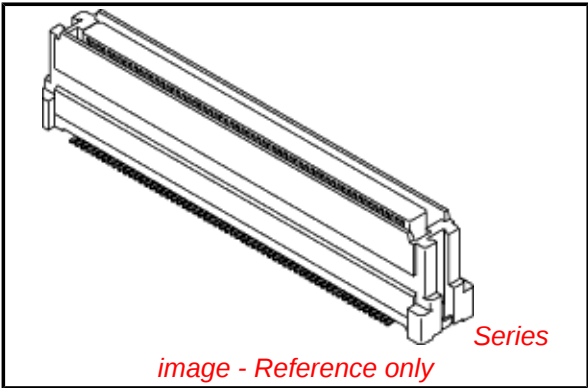
**Electrical**

|                               |      |
|-------------------------------|------|
| Current - Maximum per Contact | 0.5A |
| Voltage - Maximum             | 100V |

**Material Info**

**Reference - Drawing Numbers**

|                       |                                                                                                                       |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------|
| Product Specification | PS-52760-015, RPS-52760-017, RPS-52760-018, RPS-52760-020, RPS-52760-021, RPS-52760-028, RPS-52760-029, RPS-52901-012 |
| Sales Drawing         | SD-52901-008, SD-52901-009, SD-52901-015                                                                              |



**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.

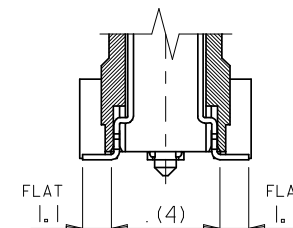
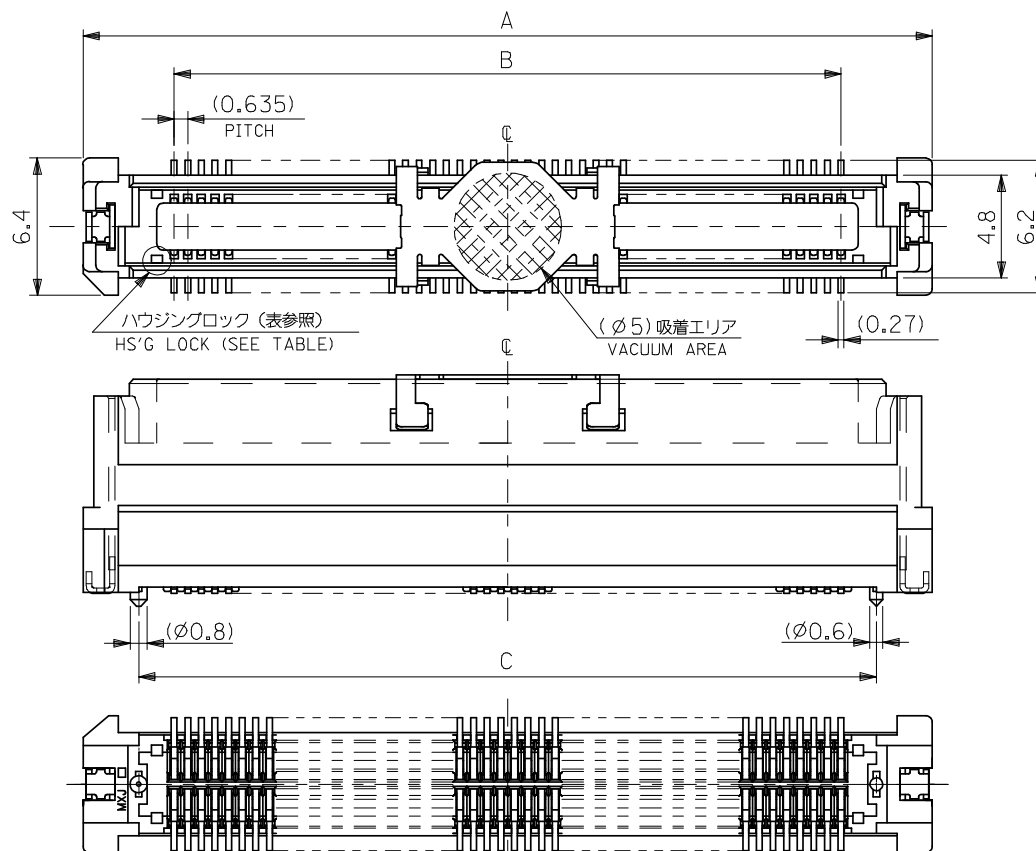
**Search Parts in this Series**

[52901Series](#)

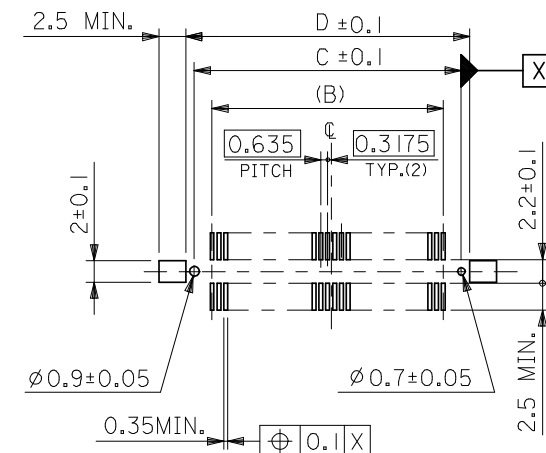
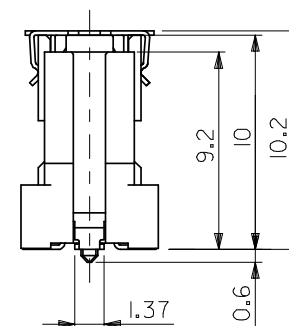
**Mates With**

[53475](#) , [53643](#) , [55091](#) , [53481](#) , [53625](#) ,,  
[53551](#) , [53647](#) , [53552](#) , [53649](#) , [53553](#) ,  
[53627](#)

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半田付け部詳細図  
DETAIL FOR SOLDERING AREA



RECOMMENDED PCB PATTERN LAYOUT

注)  
NOTES

## 1. 材質

ハウジング: ガラス入り LCP、白色、UL94V-0  
HOUSING: G E LCP WHITE UL94V-0

HOUSING:G.F.LCP,WHITE,UL94V-0

ターミナル: 銅合金 (t = 0.2)

TERMINAL: COPPER ALLOY

吸着カバー：ステンレス (t = 0.2)

VACUUM COVER:STAINLESS STEEL

補強金具 鋼合金 (t=0.35)

補強金具 : 銅合金 (  $t=0.25$  )

FITTING NAIL: COPPER ALLOY

## 2. メッキ仕様 PLATING

ターミナル： 接点部      : 金メッキ      0.25  $\mu$ mMIN.

TERMINAL : CONTACT AREA:GOLD 0.25  $\mu$ mM | N.

半田付け部：錫メッキ 1  $\mu$ mMIN.

SOLDER TAIL AREA: TIN 1.000000

SOLDER TAIL AREA: TIN 1  $\mu$ mMIN.  
下地メッキ・ニッケルメッキ 2  $\mu$ mMIN.

下地メッキ：ニッケルメッキ 2  $\mu$ mMIN.  
UNDER PLATING-NICKEL 2  $\mu$ mMIN.

UNDER-PLATING:NICKEL 2  $\mu$ m IN.

補助金具： 錫メッキ 10マイクロメートル以上

FITTING NAIL : OVER PLATING TIN 10 MICROMETER MINIMUM

FITTING NAIL : OVER PLATING TIN 1.0 MICROMETER MINIMUM  
下地メッキ : ニッケルメッキ 10ミクロン以上

下地メッキ ニッケルメッキ 1.0マイクロメ  
UNDER PLATING NICKEL 1.0 MICROMETER A

UNDER PLATING NICKEL 1.0 MICROMETER M

テールのパラッキ寸法

TAIL COPLANARITY

TAIL COPLANARITY  
ニ、非平面度は 0.1 MAY とする

テール平坦度は、0.1 MAX.とする。

TAILS COPLANARITY TO BE 0.IMAX.

エンボス対応済みの極数については、SD-52901-001

FOR THE EMBOSSED PACKAGE PRODUCTS,SEE SD-52901-0

FOR THE EMBOSSED PACKAGE PRODUCTS, SEE SD-52901-0  
木製品付 52901-\*\*\*3 の鉛フリス品である

本製品は 52901-\*\*\*2 の鉛フリー品です

THIS PRODUCT IS LEAD FREE OF 52901-\*\*\*2.

THIS PRODUCT IS LEAD FREE OF 32501 \*\*\*2.

|  |  |  |
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|  |  |  |
|--|--|--|

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|---|---|--|
| 9 | 8 |  |
|---|---|--|

|                        |       |       |        |       |                              |                            |                      |                |                 |
|------------------------|-------|-------|--------|-------|------------------------------|----------------------------|----------------------|----------------|-----------------|
| 無し<br>NO               | 48.72 | 47.12 | 43.815 | 52.32 | 5290-1474                    | 5290-1475                  | 5290-1472            | 140            | ○               |
|                        | 42.37 | 40.77 | 37.465 | 45.97 | ▲ -1274                      | ▲ -1275                    | ▲ -1272              | 120            | ○               |
|                        | 36.02 | 34.42 | 31.115 | 39.62 | ▲ -1074                      | ▲ -1075                    | ▲ -1072              | 100            | ○               |
|                        | 32.85 | 31.25 | 27.94  | 36.45 | -0974                        | -0975                      | -0972                | 90             | ○               |
|                        | 29.67 | 28.07 | 24.765 | 33.27 | -0874                        | -0875                      | -0872                | 80             | ○               |
| 有り<br>YES              | 26.5  | 24.9  | 21.59  | 30.1  | -0774                        | -0775                      | -0772                | 70             | ○               |
|                        | 23.32 | 21.72 | 18.415 | 26.92 | -0674                        | -0675                      | -0672                | 60             | ○               |
|                        | 16.97 | 15.37 | 12.065 | 20.57 | -0474                        | -0475                      | -0472                | 40             | ○               |
|                        | 13.8  | 12.2  | 8.89   | 17.4  | ▼ -0374                      | ▼ -0375                    | ▼ -0372              | 30             | ○               |
|                        | 10.62 | 9.02  | 5.715  | 14.22 | 5290-1274                    | 5290-1275                  | 5290-1272            | 20             | ○               |
| ハウジングロック<br>H'S'G LOCK | D     | C     | B      | A     | エンボス梱包<br>EMBOSSED PACKAGING | スティック梱包<br>STICK PACKAGING | 製品番号<br>MATERIAL NO. | 極数<br>CKT. NO. | 量対応<br>AVAILABL |
|                        |       |       |        |       | ORDER No.                    | オーダー番号                     |                      |                |                 |

|                                                                                  |                                                            |                                                                                                                                  |        |                            |                   |                                                                           |                        |                           |  |  |
|----------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------|-------------------|---------------------------------------------------------------------------|------------------------|---------------------------|--|--|
| REVISED<br>EC NO.: J2008-4316<br>DRAWN: MWBEI<br>CHKD: THARUYAMA<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. NINOMIYA    | DATE<br>'04/03/04 | TITLE<br>0.635 PITCH B-TO-B CONN.<br>REC. HS'G COVER ASS'Y<br>-LEAD FREE- |                        |                           |  |  |
|                                                                                  |                                                            | 10 OVER 30 UNDER                                                                                                                 | ± 0.25 | CHECKED BY<br>K. TOJO      | DATE<br>'04/03/04 |                                                                           |                        |                           |  |  |
|                                                                                  |                                                            | 30 OVER                                                                                                                          | ± 0.3  | APPROVED BY<br>M. SASAO    | DATE<br>'04/03/04 |                                                                           |                        |                           |  |  |
|                                                                                  |                                                            | ANGULAR ±3 °                                                                                                                     |        | MATERIAL NO.               |                   | DOCUMENT NO.                                                              |                        | SHEET NO.                 |  |  |
| REV                                                                              | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS | SEE TABLE                                                                                                                        |        | SD-52901-008               |                   | 1 OF 1                                                                    |                        |                           |  |  |
|                                                                                  |                                                            | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |        |                            |                   |                                                                           |                        |                           |  |  |

F

E

D

C

B

A

F

E

D

C

B

A

注)  
NOTES

1. 製品番号 52901-\*\*\*72 の詳細寸法については、SD-52901-008 を参照下さい。  
IN THE PACKAGE , PART NO.52901-\*\*\*72 DETAILED DIMENSIONS , SEE SD-52901-008

2. 梱包数量 : 440 個/リール  
NUMBER OF CONNECTORS : 440 PCS/REEL

3. リードテープ長さ  
LEAD TAPE LENGTH

トップテープ接着部  
TOP TAPE BONDED PART  
(空エンボス)  
(EMPTY)  
MIN.  
20PCS

引き出し方向  
PULL OUT DIRECTION

トップテープリーダー部  
TOP TAPE LEADER PART

部品挿入部  
COMPONENT  
SUPPLIER

末端部(空部)  
TAIL PART(EMPTY)

400MIN.

40 MIN.

4. トップテープの剥離強度 (剥離方向は下図参照)

PEELING OFF FORCE OF TOP TAPE (PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)

0. 1N~1. 3N {10gf~130gf} : キャリアテープ幅24mm~72mm  
CARRIER TAPE WIDTH 24mm~72mm

尚、本規格値は、出荷時に適用。

THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT

(但し、輸送時に剥離が発生しない事。)

(PEEL OFF SHOULD NOT BE ALLOWED,DURING TRANSPORTATION)

剥離方向  
PEEL OFF DIRECTION

引き出し方向  
PULL OUT DIRECTION

5. 材料

MATERIAL

キャリアテープ : ポリプロピレン (PP)

CARRIER TAPE : POLYPROPYLENE (PP)

トップテープ : PET, PE, PEF

TOP TAPE : PET , PE , PEF

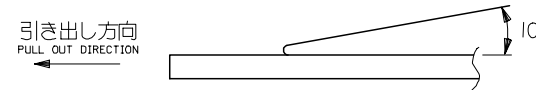
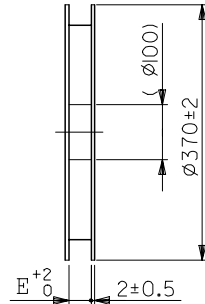
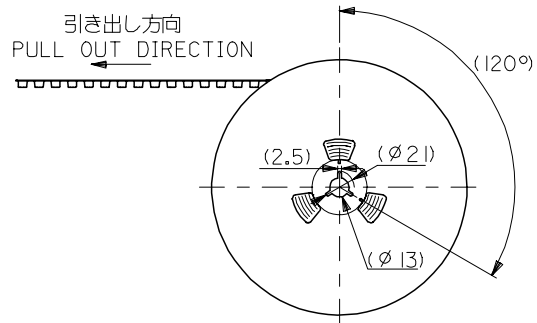
リール : 紙

REEL : CARD BOARD

6. 本製品は 52901-\*\*\*4 の鉛フリー品である。

THIS PRODUCT IS LEAD FREE OF 52901-\*\*\*4.

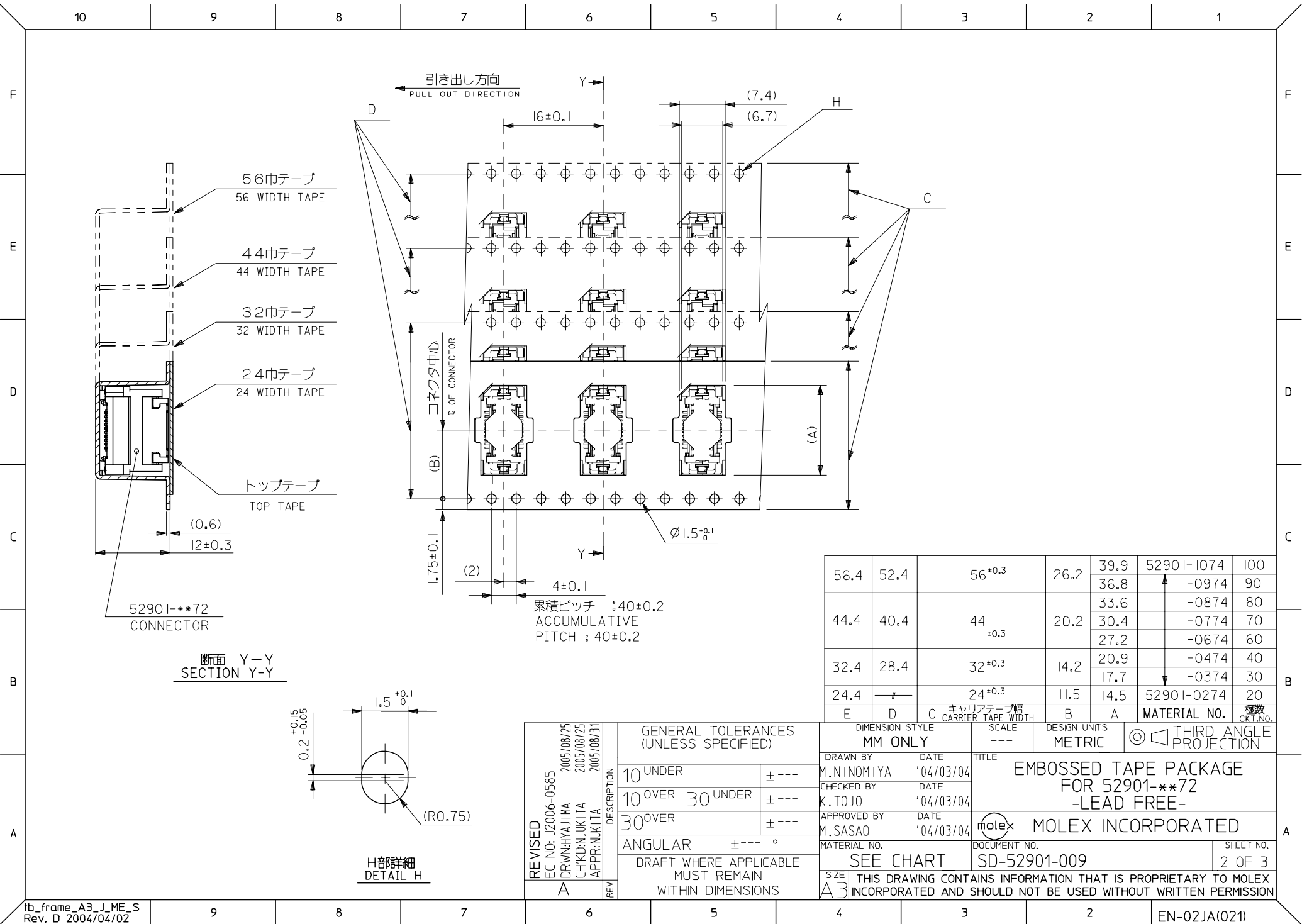
引き出し方向  
PULL OUT DIRECTION

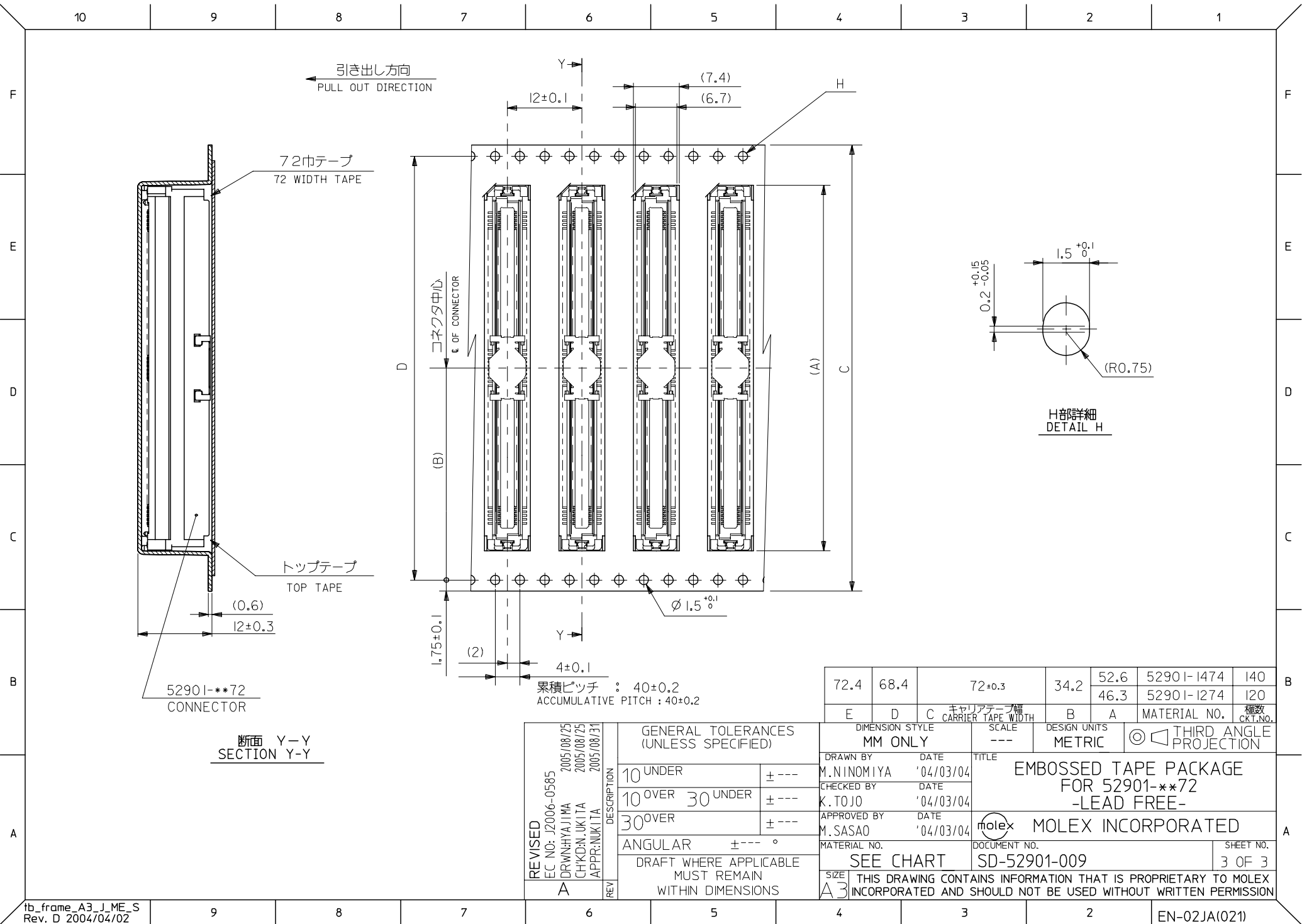


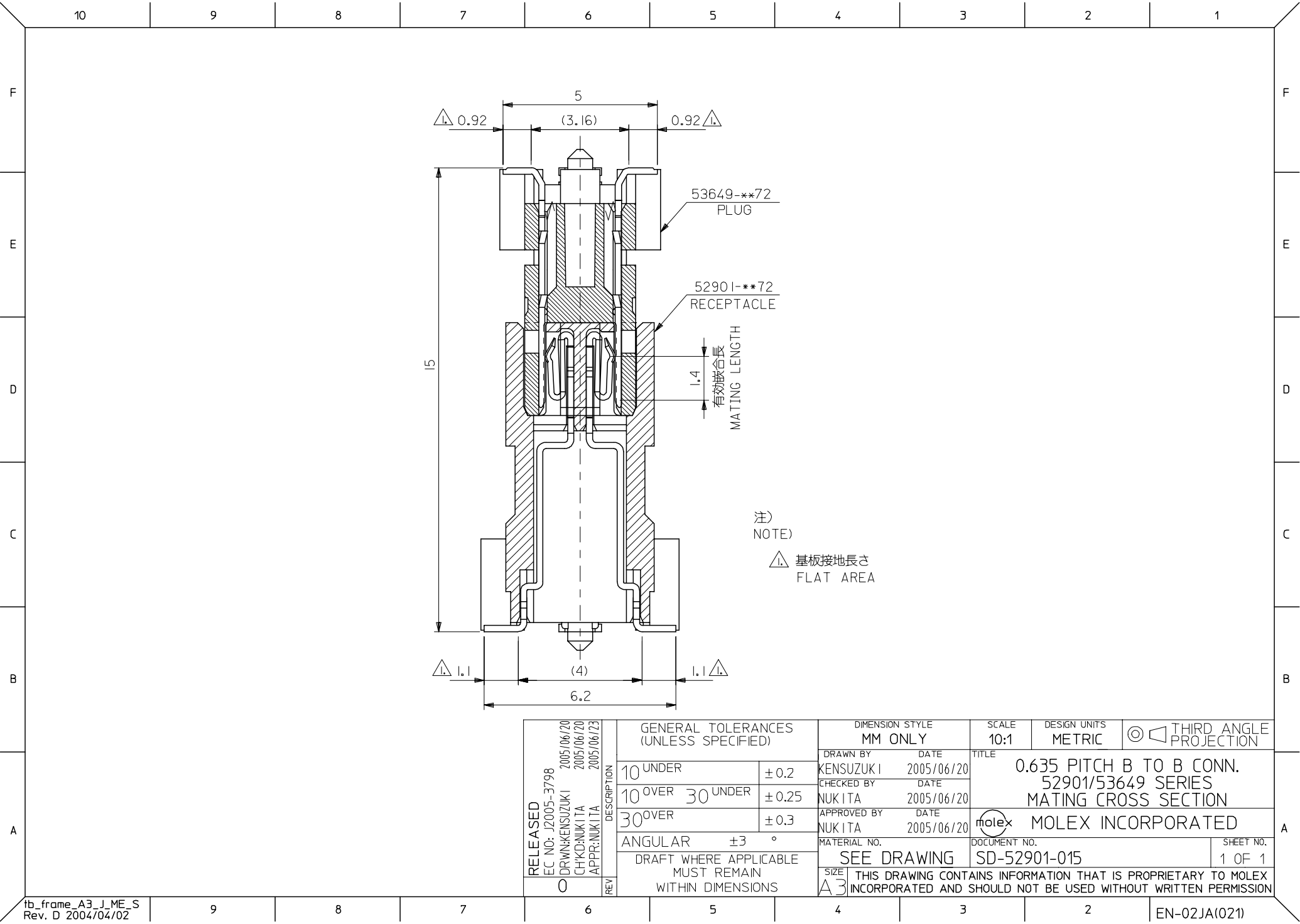
52901-\*\*\*74

MODEL NO.

|                                                                               |                                                            |                                          |           |                            |                                                                                                                                  |                                                                  |                        |                           |  |  |
|-------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------|-----------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------|---------------------------|--|--|
| REVISED<br>EC NO: J2006-0585<br>DRW:HYAJI MA<br>CHKDN: UKI TA<br>APPR:NUKI TA | DESCRIPTION                                                | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |           | DIMENSION STYLE<br>MM ONLY |                                                                                                                                  | SCALE<br>---                                                     | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |  |  |
|                                                                               |                                                            | 10 UNDER                                 | ± ---     | DRAWN BY<br>M.NINOMIYA     | DATE<br>'04/03/04                                                                                                                | TITLE<br>EMBOSSSED TAPE PACKAGE<br>FOR 52901-**72<br>-LEAD FREE- |                        |                           |  |  |
|                                                                               |                                                            | 10 OVER 30 UNDER                         | ± ---     | CHECKED BY<br>K.TOJO       | DATE<br>'04/03/04                                                                                                                |                                                                  |                        |                           |  |  |
|                                                                               |                                                            | 30 OVER                                  | ± ---     | APPROVED BY<br>M.SASAO     | DATE<br>'04/03/04                                                                                                                | MOLEX INCORPORATED                                               |                        |                           |  |  |
|                                                                               |                                                            | ANGULAR ± --- °                          |           | MATERIAL NO.               |                                                                                                                                  | DOCUMENT NO.                                                     |                        | SHEET NO.                 |  |  |
|                                                                               | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                          | SEE CHART |                            | SD-52901-009                                                                                                                     |                                                                  | 1 OF 3                 |                           |  |  |
| A                                                                             | REV                                                        |                                          |           | SIZE<br>A3                 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                  |                        |                           |  |  |







注)  
NOTE)  
△ 基板接地長さ  
FLAT AREA

|                                                                                       |                                        |                    |                                                            |        |                             |                    |                                                                                                                                  |                        |                                                                                                                 |
|---------------------------------------------------------------------------------------|----------------------------------------|--------------------|------------------------------------------------------------|--------|-----------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|
| RELEASED<br>EC NO: J2005-3798<br>O<br>DRWN: KENSUZUKI<br>CHKD: NUKITA<br>APPR: NUKITA | 2005/06/20<br>2005/06/20<br>2005/06/23 | DESCRIPTION<br>REV | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |        | DIMENSION STYLE<br>MM ONLY  |                    | SCALE<br>10:1                                                                                                                    | DESIGN UNITS<br>METRIC |  THIRD ANGLE<br>PROJECTION |
|                                                                                       |                                        |                    | 10 UNDER                                                   | ± 0.2  | DRAWN BY<br>KENSUZUKI       | DATE<br>2005/06/20 | TITLE<br>0.635 PITCH B TO B CONN.<br>52901/53649 SERIES<br>MATING CROSS SECTION<br>MOLEX INCORPORATED                            |                        |                                                                                                                 |
|                                                                                       |                                        |                    | 10 OVER 30 UNDER                                           | ± 0.25 | CHECKED BY<br>NUKITA        | DATE<br>2005/06/20 |                                                                                                                                  |                        |                                                                                                                 |
|                                                                                       |                                        |                    | 30 OVER                                                    | ± 0.3  | APPROVED BY<br>NUKITA       | DATE<br>2005/06/20 |                                                                                                                                  |                        |                                                                                                                 |
|                                                                                       |                                        |                    | ANGULAR ±3 °                                               |        | MATERIAL NO.<br>SEE DRAWING |                    |                                                                                                                                  |                        |                                                                                                                 |
|                                                                                       |                                        |                    | 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 |                        |                                                                                                                 |

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

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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:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

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