

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

**Part Number:** [5010171008](#)  
**Status:** **Active**  
**Description:** 0.40mm (.016") Pitch Board-to-Board Receptacle, SMT, Dual Row, Vertical, 4.00mm (.157") Stacking Height, 100 Circuits

**Documents:**

[3D Model](#) [Product Specification PS-54684-008 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**General**

Product Family PCB Headers  
Series [501017](#)  
Application Board-to-Board  
Product Name N/A

**Physical**

Breakaway No  
Circuits (Loaded) 100  
Color - Resin Brown  
Durability (mating cycles max) 30  
First Mate / Last Break No  
Glow-Wire Compliant No  
Guide to Mating Part No  
Keying to Mating Part None  
Lock to Mating Part None  
Mated Height (in) 0.157 In  
Mated Height (mm) 4.00 mm  
Material - Metal Phosphor Bronze  
Material - Plating Mating Gold  
Material - Plating Termination Gold  
Number of Rows 2  
Orientation Vertical  
PCB Locator No  
PCB Retention None  
Packaging Type Embossed Tape on Reel  
Pitch - Mating Interface (in) 0.016 In  
Pitch - Mating Interface (mm) 0.40 mm  
Pitch - Term. Interface (in) 0.016 In  
Pitch - Term. Interface (mm) 0.40 mm  
Polarized to Mating Part No  
Polarized to PCB No  
Stackable No  
Temperature Range - Operating -25°C to +105°C  
Termination Interface: Style Surface Mount

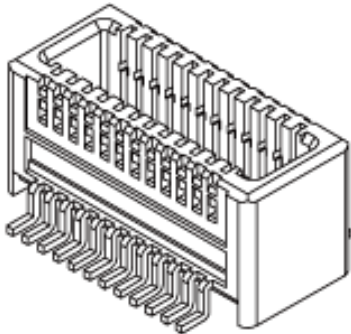
**Electrical**

Current - Maximum per Contact 0.3A  
Voltage - Maximum 30V AC (RMS)/DC

**Material Info**

**Reference - Drawing Numbers**

Packaging Specification SPK-501017-001  
Product Specification PS-54684-008, RPS-54684-017  
Sales Drawing SD-501017-001, SD-501017-002



Series  
image - Reference only

**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**  
[501017Series](#)

**Mates With**  
[54684 PCB Receptacle](#)

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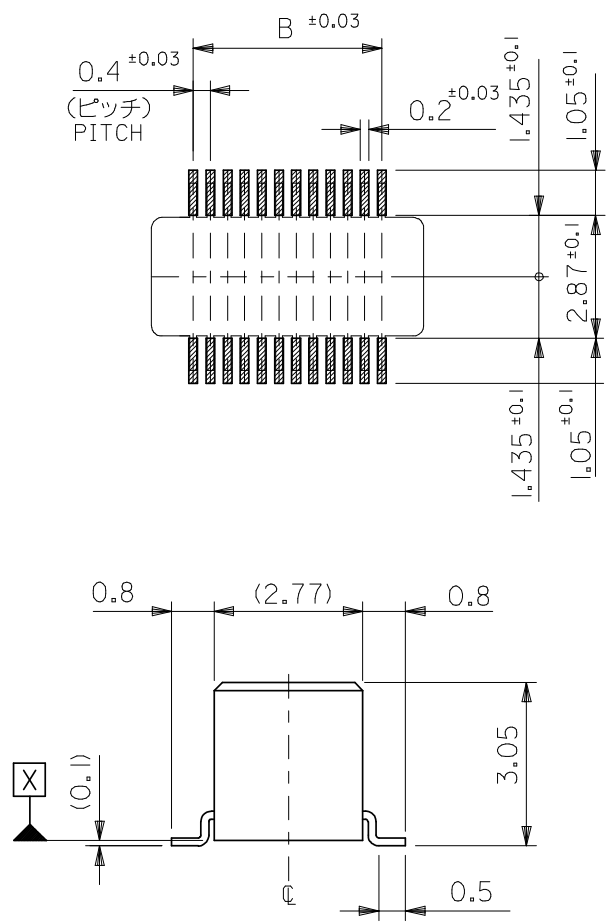
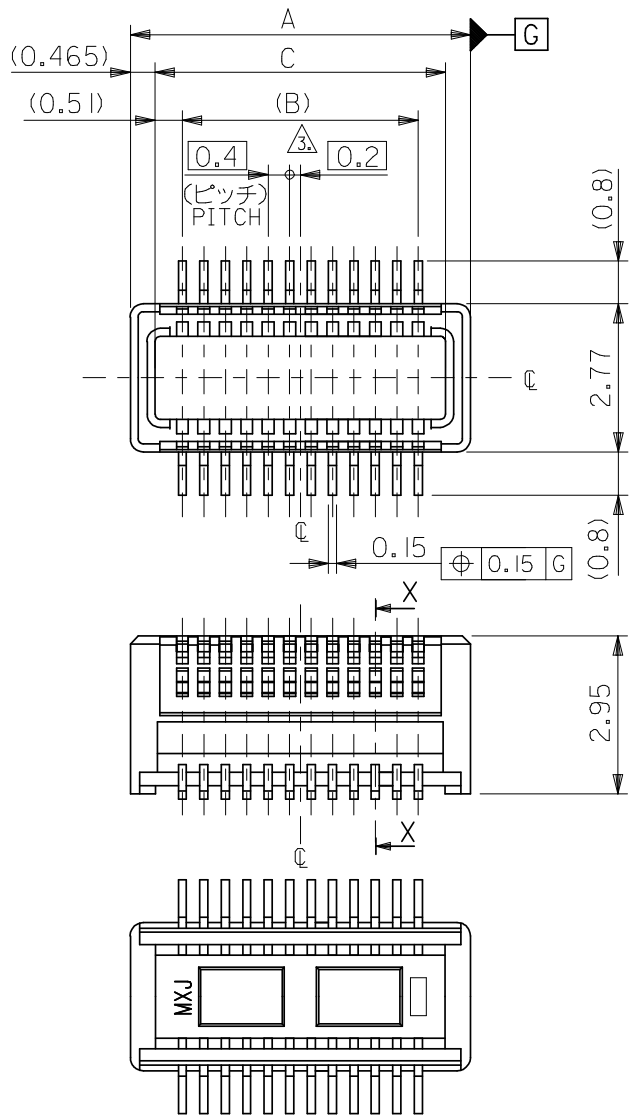
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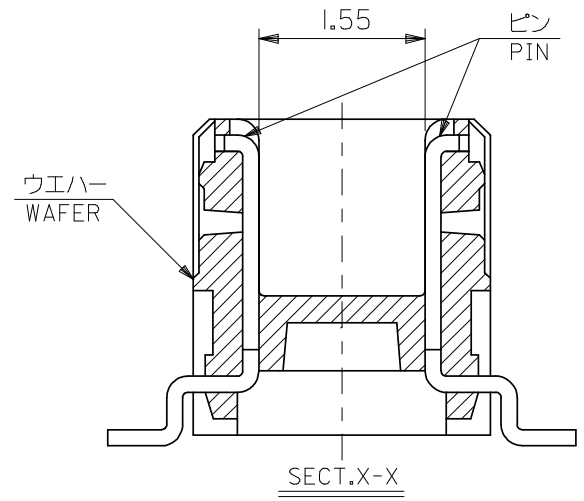
C

B

A



参考基板レイアウト (マウント面)  
RECOMMENDED P.C.BOARD  
PATTERN DIMENSION (REF.)  
(MOUNTING AREA)



|       |      |       |              |         |
|-------|------|-------|--------------|---------|
| 20.64 | 19.6 | 21.55 | 501017-1007  | 100     |
| 16.63 | 15.6 | 17.55 | 501017-0807  | 80      |
| 12.64 | 11.6 | 13.55 | 501017-0607  | 60      |
| 10.64 | 9.6  | 11.55 | 501017-0507  | 50      |
| 5.42  | 4.4  | 6.35  | 501017-0247  | 24      |
| C     | B    | A     | MATERIAL NO. | CIRCUIT |

MATERIAL  
材料

注記参照  
SEE NOTES

REVISED  
EC NO: J2008-2284  
DRWN:YMAEDA 2007/12/04  
CHKD:NUKITA 2007/12/06  
APPR:NUKITA 2007/12/06

DESCRIPTION

GENERAL TOLERANCES  
(UNLESS SPECIFIED)

10 UNDER ±0.2  
10 OVER 30 UNDER ±0.25  
30 OVER ±0.3  
ANGULAR ±--- °  
DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

DIMENSION STYLE  
MM ONLY

DRAWN BY DATE  
Y. NUKANO 2004/06/05  
CHECKED BY DATE  
T. HIRATA 2004/06/05  
APPROVED BY DATE  
M. SASAO 2004/06/05  
MATERIAL NO.  
SEE TABLE  
SIZE  
A3

SCALE  
---

DESIGN UNITS  
METRIC

THIRD ANGLE  
PROJECTION

0.4MM B-TO-B CONN  
NO BOSS PLUG ASSY  
(HGT=4MM)

MOLEX INCORPORATED

SD-501017-001

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

MODEL NO. 501017-\*\*\*\*7

1 OF 2

F

E

D

C

B

A

F

E

D

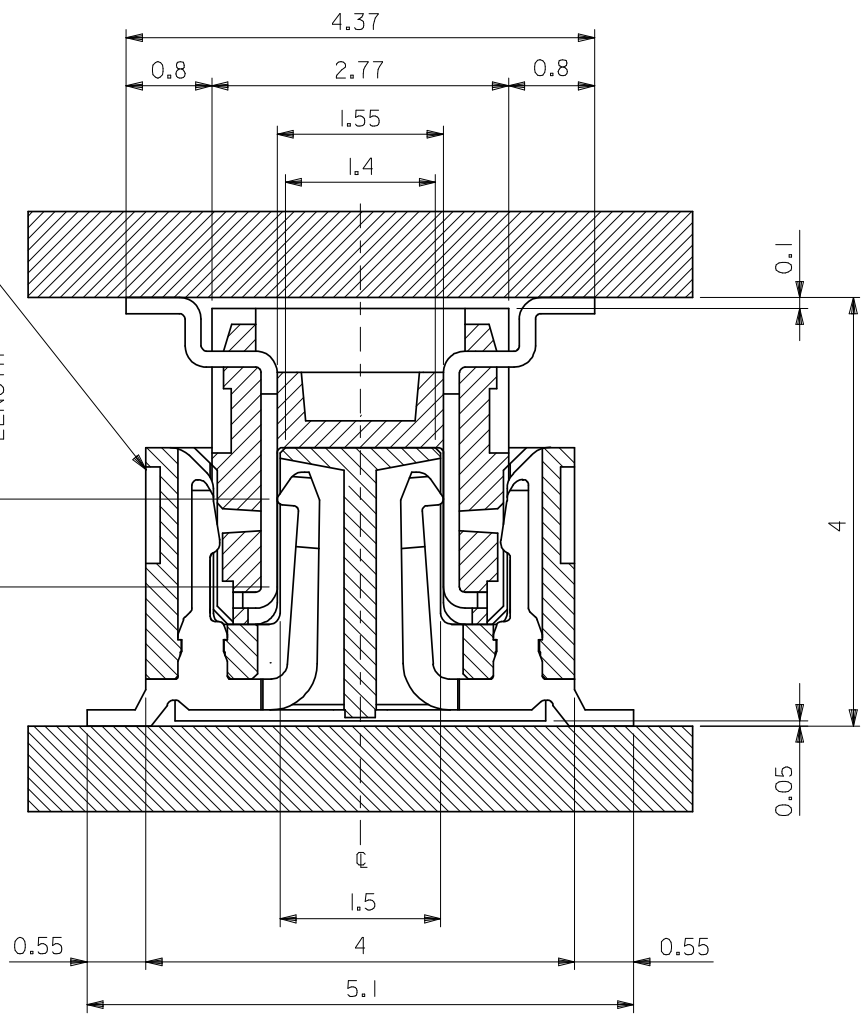
C

B

A

嵌合相手  
MATE WITH  
54684-\*\*\*7

有効嵌合長  
MATING  
LENGTH  
0.9



注記 NOTES:

1. 使用材料 MATERIAL  
ウエハー:液晶ポリマー ガラス充填 UL94V-0 茶色  
WAFER:LIQUID CRYSTAL POLYMER  
GLASS FILLED UL94V-0  
COLOR BROWN  
ピン:リン青銅 (t=0.15)  
PIN:PHOSPHOR BRONZE (t=0.15)
2. メッキ仕様 PLATING  
金メッキ 0.25 マイクロメートル以上 (コンタクト部)  
GOLD 0.25MICROMETER MINIMUM (CONTACT AREA)  
金メッキ 0.4 マイクロメートル以下 (テール部)  
GOLD 0.4MICROMETER MAXIMUM (TAIL AREA)  
下地メッキ:ニッケルメッキ 1.5 マイクロメートル以上  
UNDER PLATING: NICKEL 1.5MICROMETER MINIMUM
3. (全極数/2) = 偶数の場合に適用。  
APPLY FOR (CIRCUIT/2) = EVEN.
4. 嵌合相手: 54684 シリーズ  
MATE WITH: 54684 SERIES.
5. テール平坦度は、0.10 MAX.  
TAIL COPLANARITY TO BE 0.10 MAX.  
又、テール半田付け面の位置はウエハーの底面 ☒ に対し  
上方向に0、下方向に0.15 MAX. とする。  
MISALIGNMENT OF SOLDER TAILS FROM ☒  
: UPPER DIRECTION 0  
: LOWER DIRECTION 0.15 MAX.

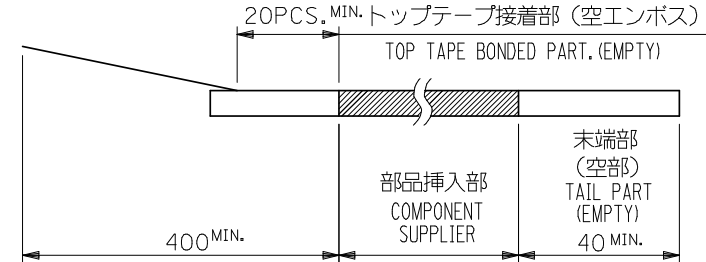
嵌合断面図 (参考)  
MATED DRAWING (REF.)

|                |                                          |  |                                                                              |                                        |                    |                                                            |        |                            |  |                                                                                                                                  |  |                                                              |  |                           |  |                     |  |  |  |
|----------------|------------------------------------------|--|------------------------------------------------------------------------------|----------------------------------------|--------------------|------------------------------------------------------------|--------|----------------------------|--|----------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------|--|---------------------------|--|---------------------|--|--|--|
| MATERIAL<br>材料 | SHEET 1 OF 2 参照<br>REFER TO SHEET 1 OF 2 |  | REVISED<br>EC NO: J2008-2284<br>DRWN: YMAEDA<br>CHKD: NUKITA<br>APPR: NUKITA | 2007/12/04<br>2007/12/06<br>2007/12/06 | 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>Y. NUKANO      |  | DATE<br>2004/06/05                                                                                                               |  | TITLE<br>0.4MM B-TO-B CONN<br>NO BOSS PLUG ASSY<br>(HGT=4MM) |  |                           |  |                     |  |  |  |
|                |                                          |  |                                                                              |                                        |                    | 10 OVER 30 UNDER                                           | ± 0.25 | CHECKED BY<br>T. HIRATA    |  | DATE<br>2004/06/05                                                                                                               |  |                                                              |  |                           |  |                     |  |  |  |
|                |                                          |  |                                                                              |                                        |                    | 30 OVER                                                    | ± 0.3  | APPROVED BY<br>M. SASAO    |  | DATE<br>2004/06/05                                                                                                               |  | MOLEX<br>MOLEX INCORPORATED                                  |  |                           |  |                     |  |  |  |
|                |                                          |  |                                                                              |                                        |                    | ANGULAR ± --- °                                            |        | MATERIAL NO.<br>SEE TABLE  |  | DOCUMENT NO.<br>SD-501017-001                                                                                                    |  |                                                              |  |                           |  | SHEET NO.<br>2 OF 2 |  |  |  |
|                |                                          |  |                                                                              |                                        |                    | 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 |  |                                                              |  |                           |  |                     |  |  |  |

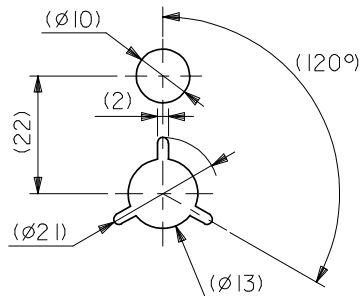
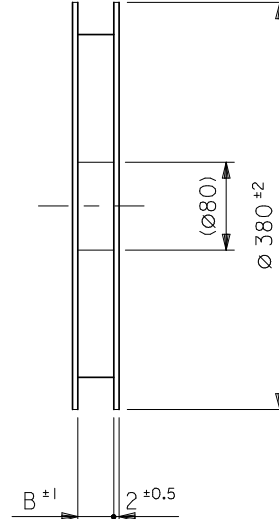
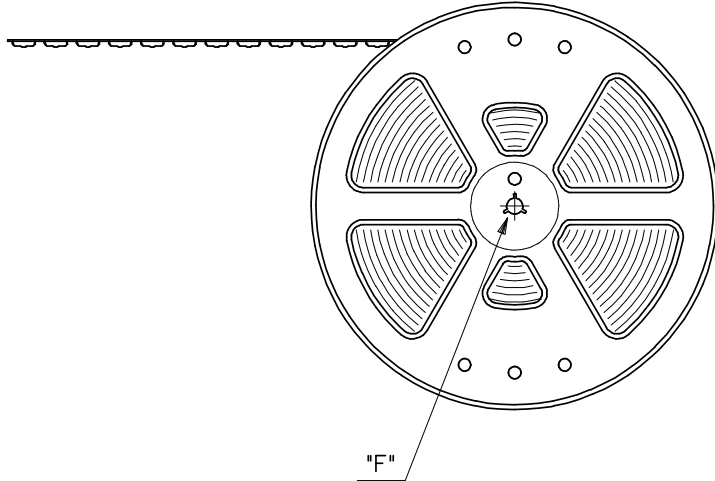
# NOTES

- 製品詳細寸法については図面 SD-501017-001 を参照下さい。  
RE DETAILED DIMENSION, SEE SD-501017-001
- 梱包数量：1500個/リール  
NUMBER OF CONNECTORS：1500PCS/REEL
- リードテープ長さ LEAD TAPE LENGTH  
20PCS. MIN. トップテープ接着部 (空エンボス)  
TOP TAPE BONDED PART. (EMPTY)
- トップテープの剥離強度：「JES-59」参照  
PEELING OFF FORCE OF TOPTAPE：SEE「JES-59」
- シール位置はトップテープ両端から0.5mm以上内側にて行い、  
且つエンボスポケット面にかからない位置とする。  
SEAL POSITION IS 0.5mm OR MORE INNER SIDE FROM TOP TAPE BOTH ENDS  
AND WHICH IS NOT TAKE ON THE EMBOSSED POKET SIDE.
- 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 (PS) <リサイクル材を含む>  
POLYSTYRENE (PS) <RECYCLE MATERIAL CONTAINED>

引き出し方向  
PULL OUT  
DIRECTION



引き出し方向  
PULL OUT  
DIRECTION



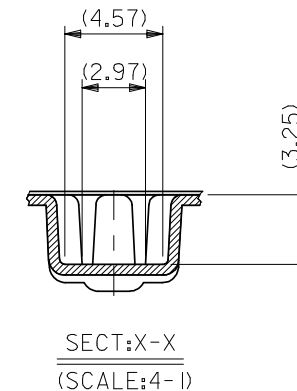
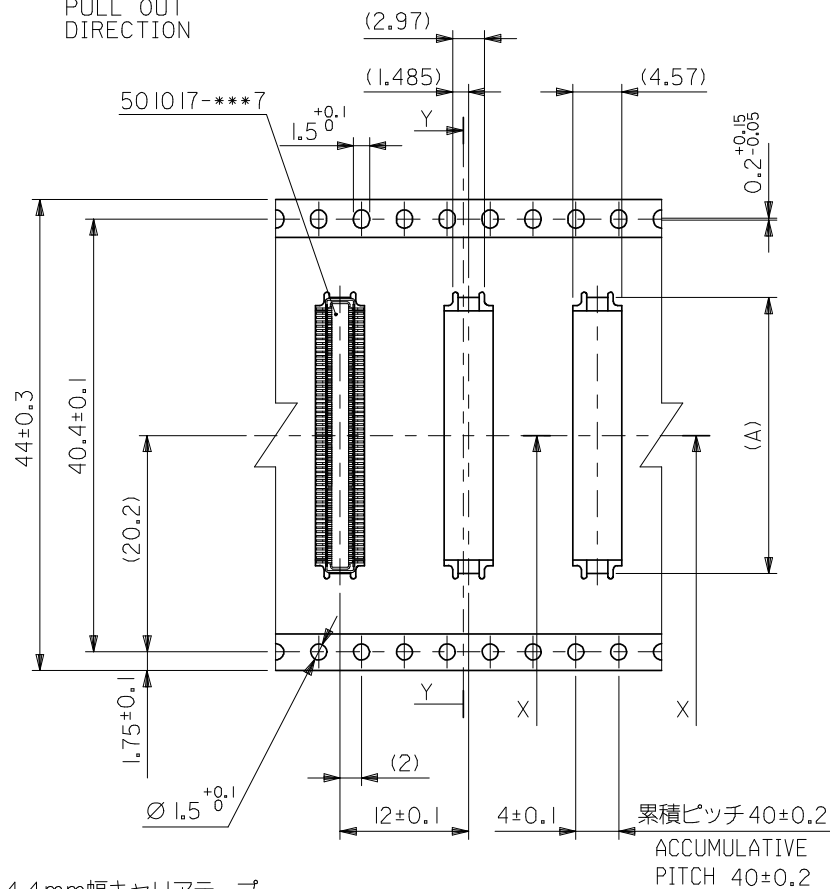
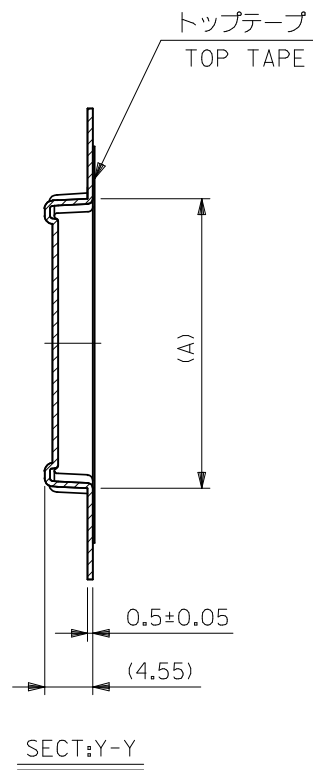
DETAIL "F"

MODEL NO. 501017-\*\*\*8

|                                                                                                            |             |                                                            |        |                                                                                                                                  |                    |                                                    |                        |                           |        |  |
|------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------------|------------------------|---------------------------|--------|--|
| REVISED<br>EC NO: J2008-2284<br>DRWN:YMAEDA 2007/12/04<br>CHKD:NUKITA 2007/12/06<br>APPR:NUKITA 2007/12/06 | 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>YNUKANOBU                                                                                                            | DATE<br>2004/06/05 | TITLE<br>EMBOSSSED TAPE PACKAGE<br>FOR 501017-***7 |                        |                           |        |  |
|                                                                                                            |             | 10 OVER 30 UNDER                                           | ± 0.25 | CHECKED BY<br>THIRATA                                                                                                            | DATE<br>2004/06/05 |                                                    |                        |                           |        |  |
|                                                                                                            |             | 30 OVER                                                    | ± 0.3  | APPROVED BY<br>MSASAO                                                                                                            | DATE<br>2004/06/05 | MOLEX INCORPORATED                                 |                        |                           |        |  |
|                                                                                                            |             | ANGULAR                                                    | ± 3 °  | MATERIAL NO.                                                                                                                     |                    |                                                    |                        |                           |        |  |
|                                                                                                            |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        | SEE TABLE                                                                                                                        |                    | SD-501017-002                                      |                        |                           | 1 OF 4 |  |
|                                                                                                            |             |                                                            |        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                    |                                                    |                        |                           |        |  |

10 9 8 7 6 5 4 3 2 1

引き出し方向  
PULL OUT  
DIRECTION



44mm幅キャリアテープ  
44mm WIDTH CARRIER TAPE

|                                |      |       |              |            |
|--------------------------------|------|-------|--------------|------------|
| 44                             | 45.5 | 21.75 | 501017-1008  | 100        |
| キャリアテープ幅<br>CARRIER TAPE WIDTH | B    | (A)   | MATERIAL NO. | 極数<br>CKT. |

MODEL NO. 501017-\*\*\*8

|                                                                                                                 |                                                            |                                          |           |                            |                    |                                                                                                                                  |                        |                           |  |  |
|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------|-----------|----------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------|--|--|
| REVISED<br>EC NO: J2008-2284<br>DRWN:YMAEDA 2007/12/04<br>CHKD:NUKITA 2007/12/06<br>APPR:NUKITA 2007/12/06<br>D | 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>YNUKANOBU      | DATE<br>2004/06/05 | TITLE<br>EMBOSSED TAPE PACKAGE<br>FOR 501017-***7                                                                                |                        |                           |  |  |
|                                                                                                                 |                                                            | 10 OVER 30 UNDER                         | ± 0.25    | CHECKED BY<br>THIRATA      | DATE<br>2004/06/05 |                                                                                                                                  |                        |                           |  |  |
|                                                                                                                 |                                                            | 30 OVER                                  | ± 0.3     | APPROVED BY<br>MSASAO      | DATE<br>2004/06/05 | molex MOLEX INCORPORATED                                                                                                         |                        |                           |  |  |
|                                                                                                                 |                                                            | ANGULAR ±3 °                             |           | MATERIAL NO.               |                    | DOCUMENT NO.                                                                                                                     |                        | SHEET NO.                 |  |  |
|                                                                                                                 | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                          | SEE TABLE |                            | SD-501017-002      |                                                                                                                                  | 2 OF 4                 |                           |  |  |
|                                                                                                                 | REV                                                        |                                          |           |                            | 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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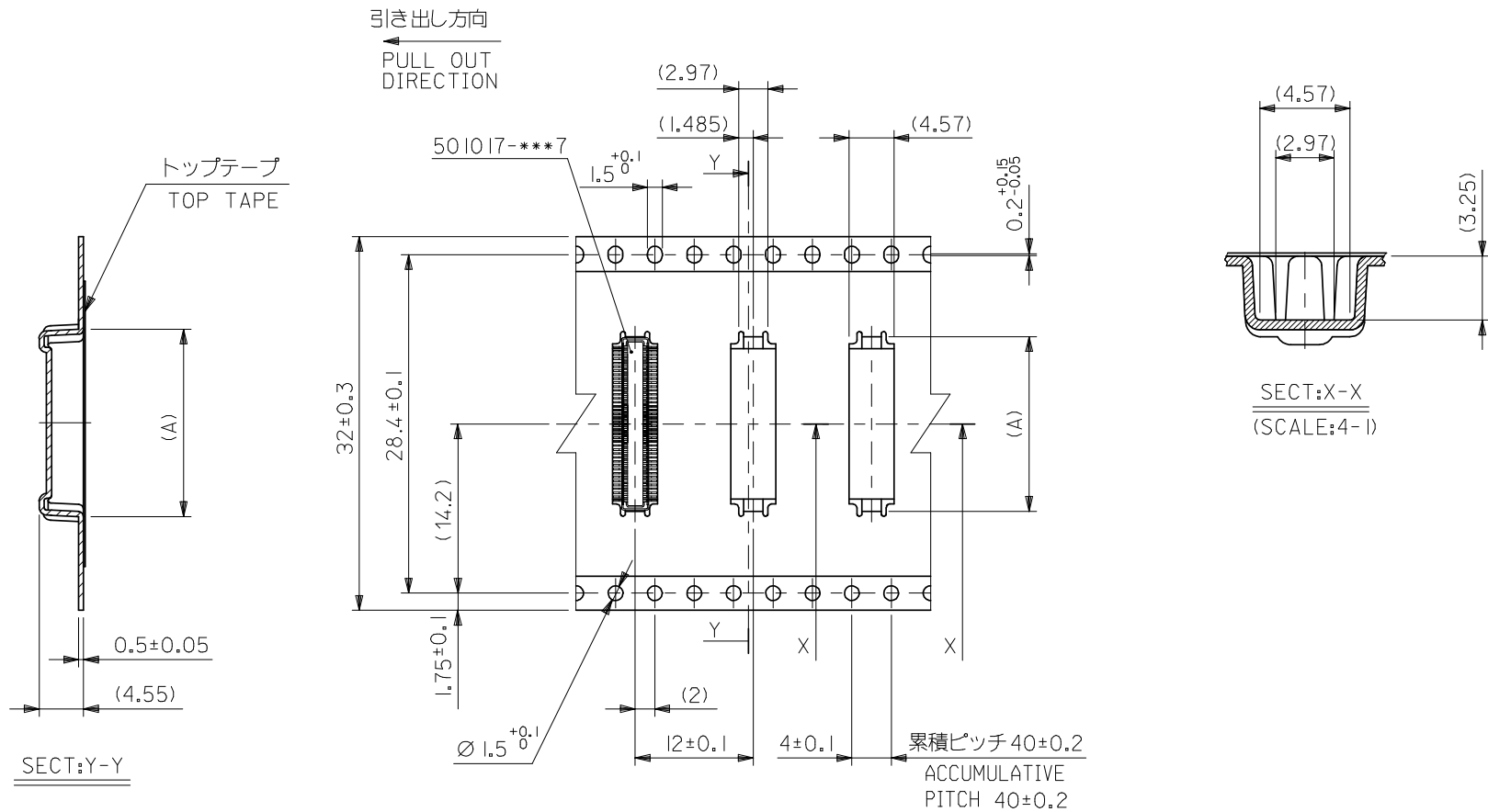
E

D

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B

A



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

|                                |      |       |              |            |
|--------------------------------|------|-------|--------------|------------|
| 32                             | 33.5 | 17.75 | 501017-0808  | 80         |
|                                |      | 13.75 | 501017-0608  | 60         |
|                                |      | 11.75 | 501017-0508  | 50         |
| キャリアテープ幅<br>CARRIER TAPE WIDTH | B    | (A)   | MATERIAL NO. | 極数<br>CKT. |

MODEL NO. 501017-\*\*\*8

|                                                                                                                  |             |                                                                                                                                  |        |                            |                    |                                                   |                        |                           |  |  |
|------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------|--------------------|---------------------------------------------------|------------------------|---------------------------|--|--|
| REVISED<br>EC NO: J2008-2284<br>DRWN:YMAEDA 2007/12/04<br>CHK'D:NUKITA 2007/12/06<br>APPR:NUKITA 2007/12/06<br>D | 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>YNUKANOB       | DATE<br>2004/06/05 | TITLE<br>EMBOSSED TAPE PACKAGE<br>FOR 501017-***7 |                        |                           |  |  |
|                                                                                                                  |             | 10 OVER 30 UNDER                                                                                                                 | ± 0.25 | CHECKED BY<br>THIRATA      | DATE<br>2004/06/05 |                                                   |                        |                           |  |  |
|                                                                                                                  |             | 30 OVER                                                                                                                          | ± 0.3  | APPROVED BY<br>MSASAO      | DATE<br>2004/06/05 | MOLEX INCORPORATED                                |                        |                           |  |  |
|                                                                                                                  |             | ANGULAR ±3 °                                                                                                                     |        | MATERIAL NO.               |                    |                                                   |                        |                           |  |  |
|                                                                                                                  |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                       |        | SEE TABLE                  |                    | SD-501017-002                                     |                        | 3 OF 4                    |  |  |
|                                                                                                                  |             | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |        |                            |                    |                                                   |                        |                           |  |  |

10 9 8 7 6 5 4 3 2 1

F

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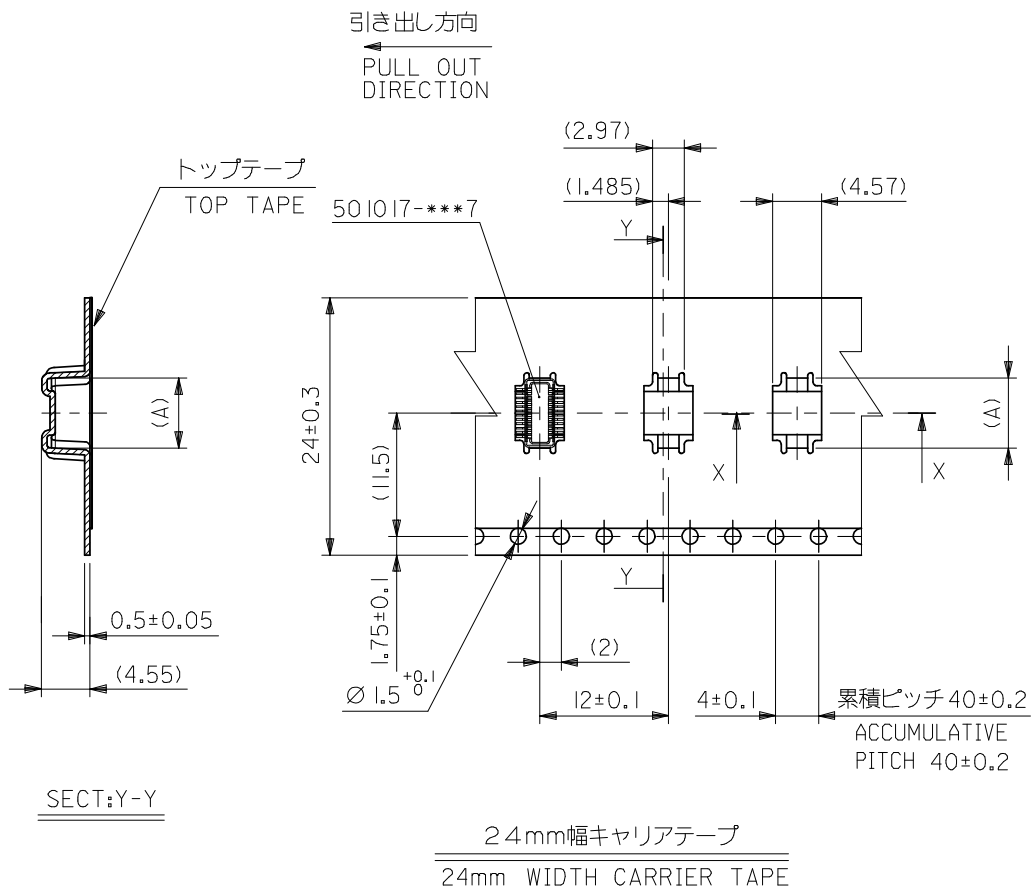
E

D

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B

A



|                                |      |      |              |            |
|--------------------------------|------|------|--------------|------------|
| 24                             | 25.5 | 6.55 | 501017-0248  | 24         |
| キャリアテープ幅<br>CARRIER TAPE WIDTH | B    | A    | MATERIAL NO. | 極数<br>CKT. |

MODEL NO. 501017-\*\*\*8

|                                                                                                                                  |                                                            |                                          |           |                            |               |                    |                                                   |                           |  |  |
|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------|-----------|----------------------------|---------------|--------------------|---------------------------------------------------|---------------------------|--|--|
| REVISED<br>EC NO: J2008-2284<br>DRWN:YMAEDA 2007/12/04<br>CHKD:NUKITA 2007/12/06<br>APPR:NUKITA 2007/12/06<br>REV D              | 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>YNUKANOB       |               | DATE<br>2004/06/05 | TITLE<br>EMBOSSED TAPE PACKAGE<br>FOR 501017-***7 |                           |  |  |
|                                                                                                                                  |                                                            | 10 OVER 30 UNDER                         | ± 0.25    | CHECKED BY<br>THIRATA      |               | DATE<br>2004/06/05 |                                                   |                           |  |  |
|                                                                                                                                  |                                                            | 30 OVER                                  | ± 0.3     | APPROVED BY<br>MSASAO      |               | DATE<br>2004/06/05 | molex MOLEX INCORPORATED                          |                           |  |  |
|                                                                                                                                  |                                                            | ANGULAR ±3 °                             |           | MATERIAL NO.               |               | DOCUMENT NO.       |                                                   | SHEET NO.                 |  |  |
|                                                                                                                                  | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                          | SEE TABLE |                            | SD-501017-002 |                    | 4 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

**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

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