

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

**Part Number:** [5022442430](#)  
**Status:** **Active**  
**Description:** 0.50mm (.020") Pitch Easy-On™ Type FFC/FPC Connector, For LVDS, 2.33mm (.092") Height, Right Angle, SMT, ZIF, Bottom Contact Style, 24 Circuits, Lead-free

**Documents:**

[3D Model](#) [Product Specification PS-502244-001 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**General**

Product Family FFC/FPC Connectors  
Series [502244](#)  
Product Name Easy-On™

**Physical**

Circuits (Loaded) 24  
Color - Resin Black, Natural  
Contact Position Bottom  
Durability (mating cycles max) 20  
Entry Angle 90° Angle  
Mated Height (in) 0.092 In  
Mated Height (mm) 2.33 mm  
Material - Metal Phosphor Bronze  
Material - Plating Mating Gold  
Material - Plating Termination Gold  
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 -25°C to +85°C  
Termination Interface: Style Surface Mount  
Wire/Cable Type FFC only

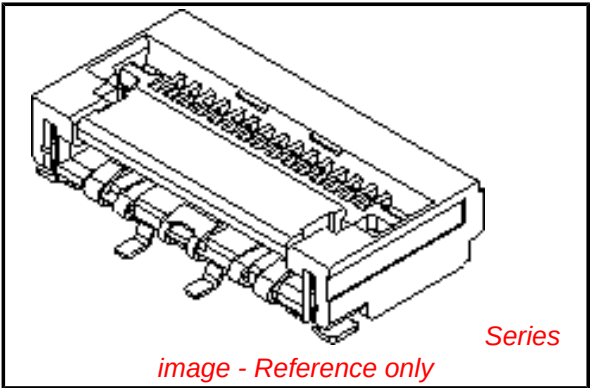
**Electrical**

Current - Maximum per Contact 0.4A  
Voltage - Maximum 50V AC (RMS)/DC

**Material Info**

**Reference - Drawing Numbers**

Product Specification PS-502244-001, RPS-502244-001, RPS-502244-002, RPS-502244-003  
Sales Drawing SD-502244-001, SD-502244-002



**EU RoHS**

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

**China RoHS**

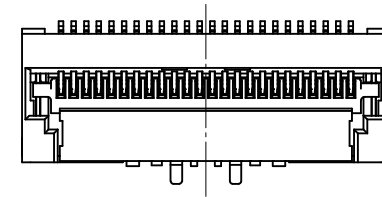
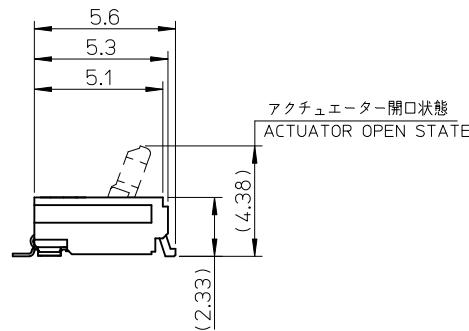
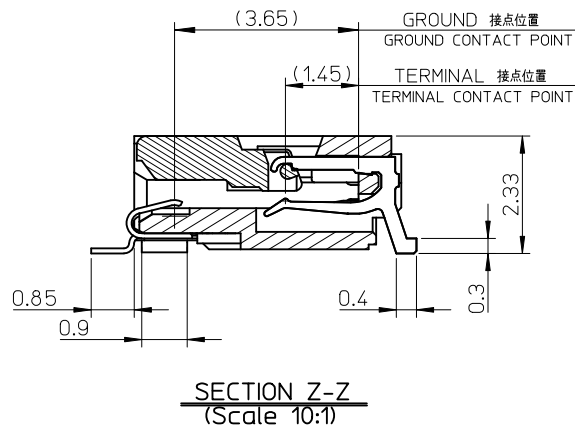
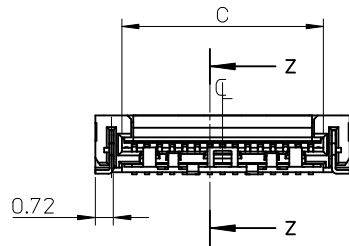
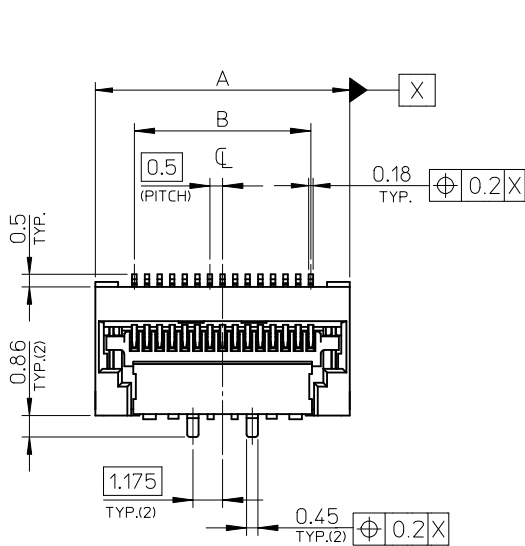


**Need more information on product  
environmental compliance?**

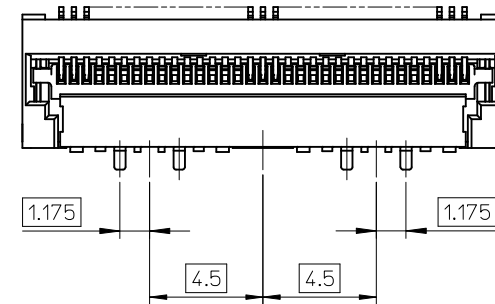
Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
For a multiple part number RoHS Certificate of Compliance, [click here](#)

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

**Search Parts in this Series**  
[502244Series](#)



24極品形状



33極品形状

|                                 |      |      |               |         |
|---------------------------------|------|------|---------------|---------|
| 17                              | 16   | 19.1 | 502244-3330   | 33      |
| 12.5                            | 11.5 | 14.6 | 502244-2430   | 24      |
| 8                               | 7    | 10.1 | 502244-1530   | 15      |
| C                               | B    | A    | EMBOSSED TAPE | CIRCUIT |
|                                 |      |      | ORDER No.     |         |
| CONNECTOR SERIES No.502244-**39 |      |      |               |         |

| REVISED | EC NO. | J2010-1947 | DRWN:NIISHI | 2010/03/18 | CHKD:WATSUURA | 2010/03/18 | APPR:KMORIKAWA | 2010/03/29 | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |        | DIMENSION STYLE<br>MM ONLY |      | SCALE<br>5:1 | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |  | TITLE |  |
|---------|--------|------------|-------------|------------|---------------|------------|----------------|------------|------------------------------------------------------------|--------|----------------------------|------|--------------|------------------------|---------------------------|--|-------|--|
|         |        |            |             |            |               |            |                |            | 10 UNDER                                                   | ± 0.2  | DRAWN BY                   | DATE |              |                        |                           |  |       |  |
| C       |        |            |             |            |               |            |                |            | 10 OVER 30 UNDER                                           | ± 0.25 | CHECKED BY                 | DATE |              |                        |                           |  |       |  |
|         |        |            |             |            |               |            |                |            | 30 OVER                                                    | ± 0.3  | APPROVED BY                | DATE |              |                        |                           |  |       |  |
| REV     |        |            |             |            |               |            |                |            | ANGULAR ± 3 °                                              |        | MATERIAL NO.               |      |              |                        |                           |  |       |  |
|         |        |            |             |            |               |            |                |            | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        | SEE TABLE                  |      |              |                        |                           |  |       |  |
| C       |        |            |             |            |               |            |                |            |                                                            |        | SIZE<br>A3                 |      |              |                        |                           |  |       |  |
|         |        |            |             |            |               |            |                |            |                                                            |        |                            |      |              |                        |                           |  |       |  |

0.5 FFC CONN. FOR LVDS  
HOUSING ASSY  
(BOTTOM CONTACT)

MOLEX INCORPORATED

DOCUMENT NO. SD-502244-001 SHEET NO. 1 OF 3

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

# 注記 NOTES

## 1.使用材料 MATERIAL

ハウジング:液晶ポリマー (LCP), ガラス充填, UL94V-0, ナチュラル (白)  
HOUSING: LIQUID CRYSTAL POLYMER (LCP),  
GLASS FILLED, UL94V-0, NATURAL (WHITE)

## アクチュエーター ACTUATOR

(15, 33極): ポリアミド (PA), ガラス充填, UL94V-0, 黒  
(24極): ポリフェニレンスルファイド (PPS), ガラス充填, UL94V-0, 黒  
(15, 33CKT): POLYAMIDE (PA), GLASS FILLED, UL94V-0, BLACK  
(24CKT): POLYPHENYLENESULFIDE (PPS), GLASS FILLED,  
UL94V-0, BLACK

ターミナル: 焼青銅

TERMINAL: PHOSPHOR BRONZE

ネイル: 焼青銅

NAIL: PHOSPHOR BRONZE

グラウンド: 焼青銅

GROUND: PHOSPHOR BRONZE

## 2.メッキ仕様

## PLATING SPECIFICATION

ターミナルコンタクト部: 部分金メッキ (0.1μm以上)

TERMINAL CONTACT: SEPARATED GOLD PLATING (0.1μmMIN.)

ターミナルテール部: 部分金メッキ (0.05μm以上)

TERMINAL TAIL: SEPARATED GOLD PLATING (0.05μmMIN.)

ターミナル下地: ニッケルメッキ (1.0μm以上)

TERMINAL UNDERPLATE: NICKEL PLATING (1.0μmMIN.)

ネイル: 銅メッキ (1.0μm以上)

NAIL: TIN PLATING (1.0μmMIN.)

ネイル下地: ニッケルメッキ (1.0μm以上)

NAIL UNDERPLATE: NICKEL PLATING (1.0μmMIN.)

グラウンド: 銅メッキ (1.0μm以上)

GROUND: TIN PLATING (1.0μmMIN.)

グラウンド下地: ニッケルメッキ (1.0μm以上)

GROUND UNDERPLATE: NICKEL PLATING (1.0μmMIN.)

## 3.エンボステープ梱包時は、アクチュエーターが閉じた状態とする。

IN THE PACKAGE, ACTUATOR SHOULD BE CLOSED.

△使用するFFCはターミナル用パターン導体部とグラウンドターミナル用パターン導体部が重ならないこと。

FFC IS NOT OVER LAP PATTERN OF TERMINAL

AND GROUND TERMINAL.

5.FFCの挿入はアクチュエーターが完全に開いた状態でを行い、挿入口より真っ直ぐ

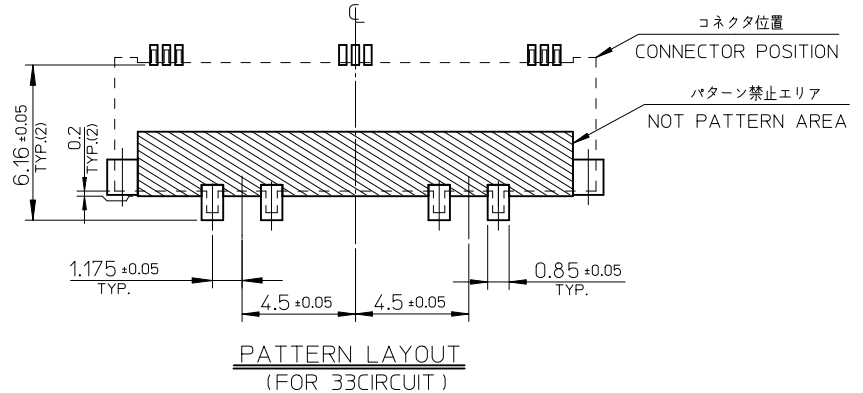
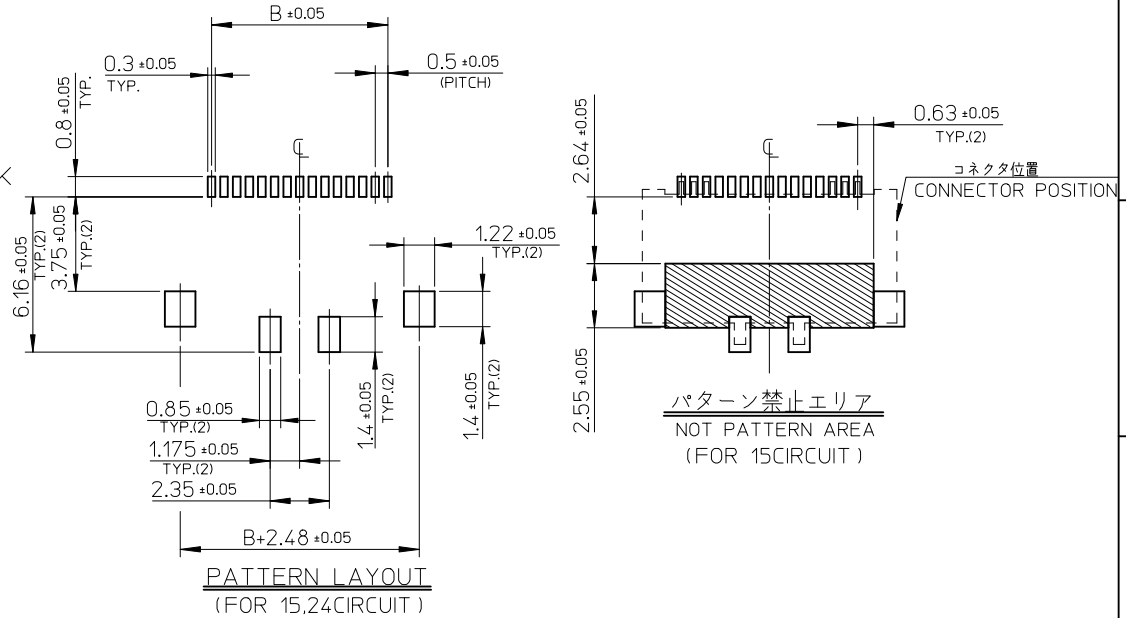
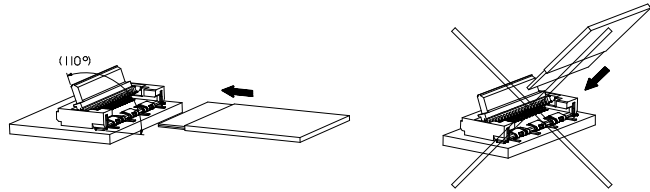
ハウジングに突き当たるまで挿入してください。

DO WITH THE ACTUATOR OPENED COMPLETELY

AND INSERT IT IN THE INTERIOR OF THE INSERTION

ENTRANCE SURELY WHEN YOU INSERT FFC.

6.ELV AND RoSH COMPLIANT.



| REVISED |            | DESCRIPTION |        | GENERAL TOLERANCES (UNLESS SPECIFIED) |  | DIMENSION STYLE MM ONLY                                                                                                       |           | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION |  |
|---------|------------|-------------|--------|---------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------|-----------|-------|--------------|------------------------|--|
| EC NO.  | J2010-1947 | DRWN        | NIISHI | 2010/03/18                            |  | DRAWN BY                                                                                                                      | DATE      | TITLE |              |                        |  |
| CH'KD   | WATSUURA   | 2010/03/18  |        |                                       |  | CHECKED BY                                                                                                                    | DATE      |       |              |                        |  |
| APPR    | KMORIKAWA  | 2010/03/29  |        |                                       |  | APPROVED BY                                                                                                                   | DATE      |       |              |                        |  |
| REV     |            |             |        |                                       |  | SICHIKAWA                                                                                                                     | '06/03/10 |       |              |                        |  |
|         |            |             |        |                                       |  | MATERIAL NO.                                                                                                                  |           |       |              |                        |  |
|         |            |             |        |                                       |  | SEE SHEET 1                                                                                                                   |           |       |              |                        |  |
|         |            |             |        |                                       |  | SIZE                                                                                                                          |           |       |              |                        |  |
|         |            |             |        |                                       |  | A3                                                                                                                            |           |       |              |                        |  |
|         |            |             |        |                                       |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |           |       |              |                        |  |

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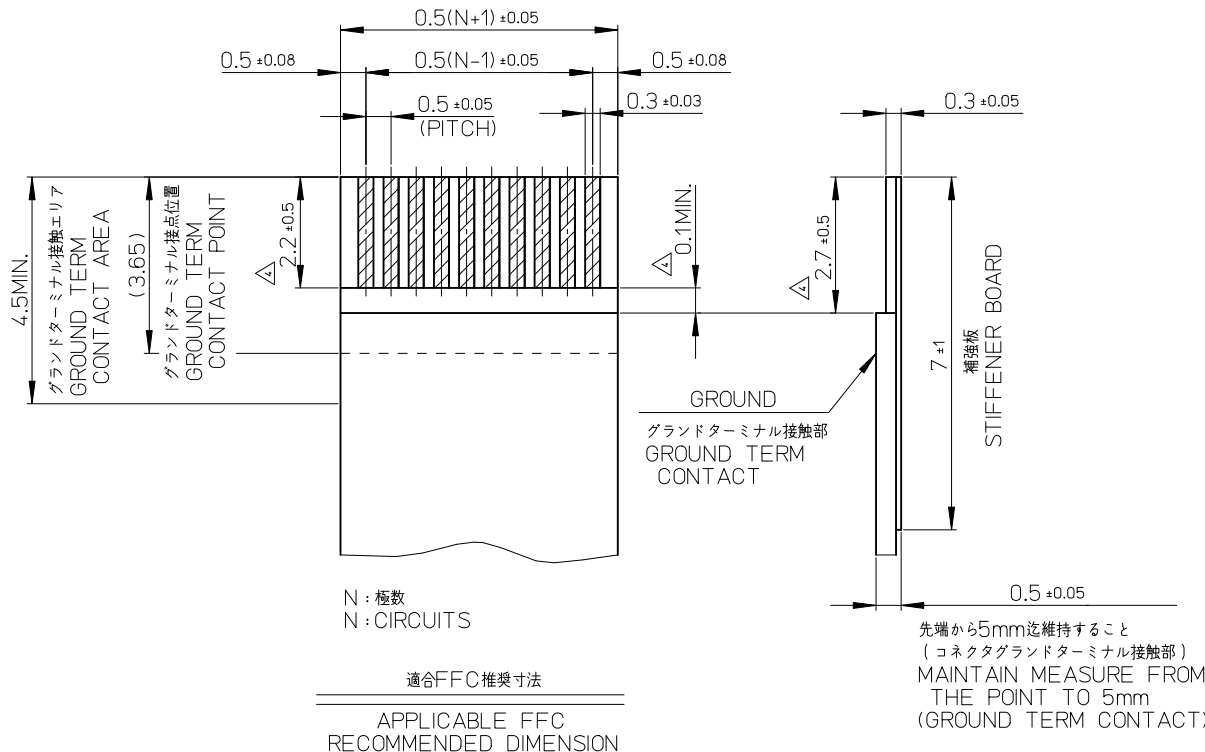
E

D

C

B

A



FFCについて:  
抜き方向は導体側から補強板側を推奨致します。  
導体部については、軟銅箔:35マイクロメートル又は50マイクロメートル  
金めっきを推奨致します。

ABOUT FFC:  
RECOMMENDED PUNCHER DIRECTION :  
FROM CONDUCTOR SIDE TO STIFFENER FILM SIDE  
RECOMMENDED CONDUCTOR SPEC :  
THICKNESS OF SOFT COPPER : 35 MICROMETER OR 50 MICROMETER  
GOLD PLATING

|                                                                                                                           |             |                                                            |        |                            |                   |                                                                                                                                  |                        |                           |  |           |
|---------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------|--------|----------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------|--|-----------|
| REVISED<br>EC NO.: J2010-1947<br>DRWN: NISHI 2010/03/18<br>CHKD: MATSUURA 2010/03/18<br>APPR: KIMORI KAWA 2010/03/29<br>C | DESCRIPTION | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |        | DIMENSION STYLE<br>MM ONLY |                   | SCALE<br>5:1                                                                                                                     | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |  |           |
|                                                                                                                           |             | 10 UNDER                                                   | ± 0.2  | DRAWN BY<br>THANYU         | DATE<br>'06/03/10 | TITLE<br>0.5 FFC CONN. FOR LVDS<br>HOUSING ASSY<br>(BOTTOM CONTACT)                                                              |                        |                           |  |           |
|                                                                                                                           |             | 10 OVER 30 UNDER                                           | ± 0.25 | CHECKED BY<br>SMARUYAMA    | DATE<br>'06/03/10 |                                                                                                                                  |                        |                           |  |           |
|                                                                                                                           |             | 30 OVER                                                    | ± 0.3  | APPROVED BY<br>SICHIKAWA   | DATE<br>'06/03/10 | MOLEX MOLEX INCORPORATED                                                                                                         |                        |                           |  |           |
|                                                                                                                           |             | ANGULAR ± 3 °                                              |        | MATERIAL NO.               |                   |                                                                                                                                  | DOCUMENT NO.           |                           |  | SHEET NO. |
|                                                                                                                           |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        | SEE SHEET 1                |                   |                                                                                                                                  | SD-502244-001          |                           |  | 3 OF 3    |
|                                                                                                                           | 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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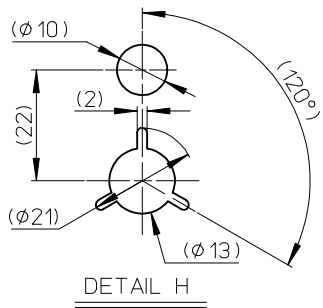
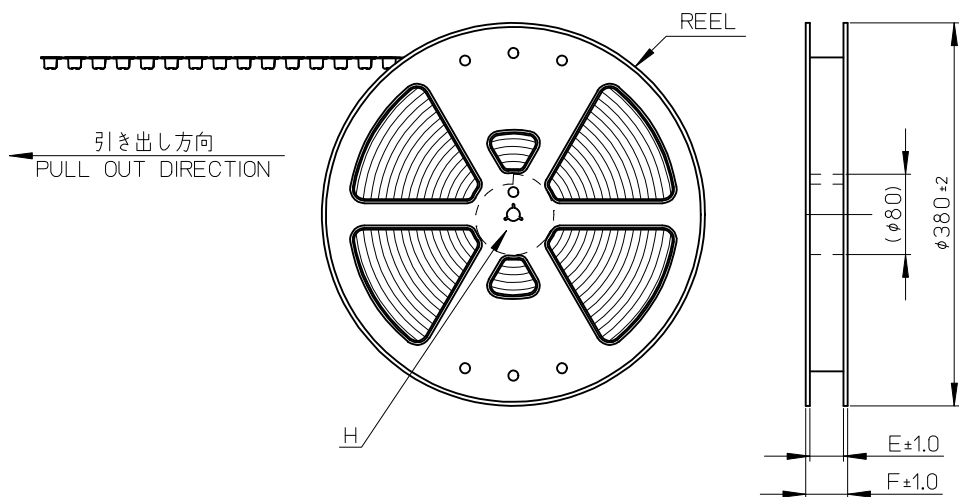
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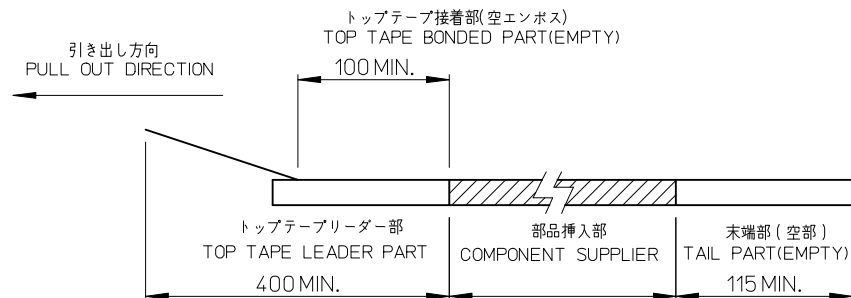
2

1



## NOTES

- 製品詳細寸法につきましては、製品単体図面を参照して下さい。  
FOR DETAIL OF CONNECTOR DIMENSIONS.  
PLEASE SEE THE DRAWING OF CONNECTOR ITSELF (NOT PACKAGED).
- 梱包数量: 2500個/リール  
NUMBER OF CONNECTORS: 2500PCS/REEL
- リードテープの長さ  
LEAD TAPE LENGTH



- 材料  
MATERIAL  
キャリアテープ: ポリスチレン (PS)  
CARRIER TAPE: POLYSTYRENE (PS)  
トップテープ: PET, OTHER  
TOP TAPE: PET, OTHER  
リール: ポリスチレン (リサイクル材を含む)  
REEL: POLYSTYRENE (RECYCLE MATERIAL CONTAINED)

5.ELV AND RoHS COMPLIANT

|                                                                                                                 |                                                            |                                                                                                                                  |             |                            |                  |                                                           |                        |                           |  |  |
|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------|------------------|-----------------------------------------------------------|------------------------|---------------------------|--|--|
| REVISED<br>EC NO: J2009-1513<br>DRWN:MTAKASAKI 2008/12/11<br>CHKD:MHAYASHI 2008/12/12<br>APPR:NUKITA 2008/12/12 | 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>NNISHI         | DATE<br>'06/5/22 | TITLE<br>0.5 FFC CONN.FOR LVDS<br>HOUSING ASSY EMBSTP PKG |                        |                           |  |  |
|                                                                                                                 |                                                            | 10 OVER 30 UNDER                                                                                                                 | ± 0.25      | CHECKED BY<br>SMARUYAMA    | DATE<br>'06/5/22 |                                                           |                        |                           |  |  |
|                                                                                                                 |                                                            | 30 OVER                                                                                                                          | ± 0.3       | APPROVED BY<br>SICHIKAWA   | DATE<br>'06/5/22 | MOLEX INCORPORATED                                        |                        |                           |  |  |
|                                                                                                                 |                                                            | ANGULAR ±1 °                                                                                                                     |             | MATERIAL NO.               |                  | DOCUMENT NO.                                              |                        | SHEET NO.                 |  |  |
|                                                                                                                 | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                                                                                                                  | SEE SHEET 2 |                            | SD-502244-002    |                                                           | 1 OF 3                 |                           |  |  |
| B                                                                                                               | REV                                                        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |             |                            |                  |                                                           |                        |                           |  |  |

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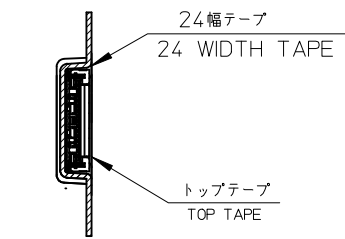
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C

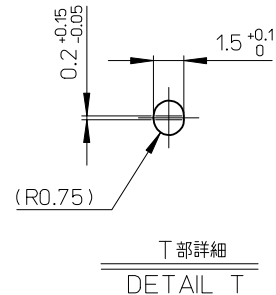
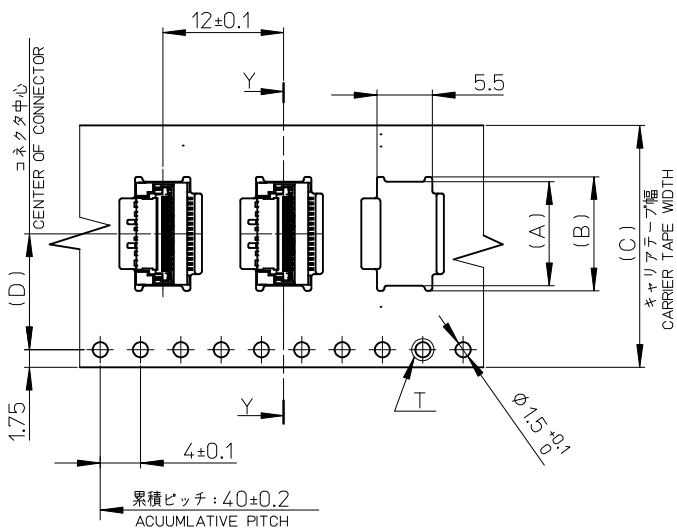
B

A

引き出し方向  
PULL OUT DIRECTION



断面Y-Y  
SECTION Y-Y



|      |      |      |     |      |      |                   |                      |                |
|------|------|------|-----|------|------|-------------------|----------------------|----------------|
| 29.4 | 25.4 | 11.5 | 24  | 15.8 | 14.8 | 502244-2439       | 502244-2430          | 24             |
|      |      |      |     | 11.3 | 10.3 | 502244-1539       | 502244-1530          | 15             |
| F    | E    | (D)  | (C) | (B)  | (A)  | 製品単体<br>CONNECTOR | 製品番号<br>MATERIAL NO. | 極数<br>CIRCUITS |

|                                                                                |                                                            |                                          |           |                            |                  |                                                                                                                                  |                        |                           |        |           |
|--------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------|-----------|----------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------|--------|-----------|
| REVISED<br>EC NO: J2009-1513<br>DRWN:MTAKASAKI<br>CHKD:MHAYASHI<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>NNISHI         | DATE<br>'06/5/22 | TITLE<br>0.5 FFC CONN.FOR LVDS<br>HOUSING ASSY EMBSTP PKG                                                                        |                        |                           |        |           |
|                                                                                |                                                            | 10 OVER 30 UNDER                         | ±0.25     | CHECKED BY<br>SMARUYAMA    | DATE<br>'06/5/22 |                                                                                                                                  |                        |                           |        |           |
|                                                                                |                                                            | 30 OVER                                  | ±0.3      | APPROVED BY<br>SICHIKAWA   | DATE<br>'06/5/22 | MOLEX MOLEX INCORPORATED                                                                                                         |                        |                           |        |           |
|                                                                                |                                                            | ANGULAR ±1 °                             |           | MATERIAL NO.               |                  | DOCUMENT NO.                                                                                                                     |                        |                           |        | SHEET NO. |
|                                                                                | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                          | SEE TABLE |                            | SD-502244-002    |                                                                                                                                  |                        |                           | 2 OF 3 |           |
|                                                                                | REV                                                        |                                          |           |                            | SIZE<br>A3       | 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 F

E E

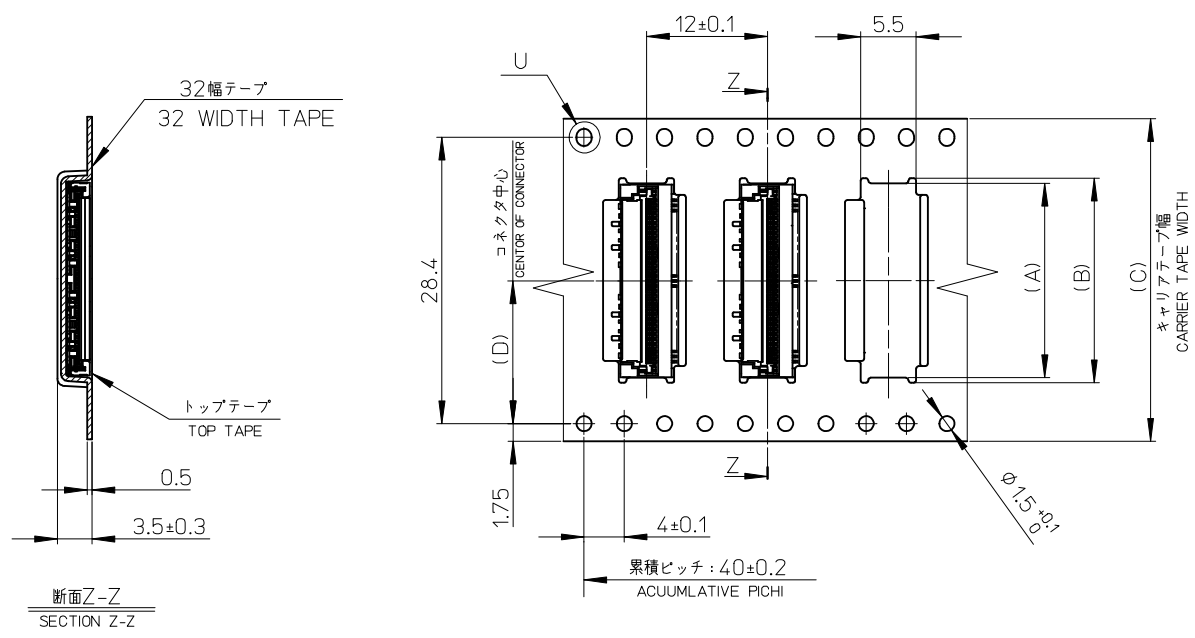
D D

C C

B B

A A

引き出し方向  
PULL OUT DIRECTION



|      |      |       |     |      |      |                   |                      |                |
|------|------|-------|-----|------|------|-------------------|----------------------|----------------|
| 37.4 | 33.4 | 14.15 | 32  | 20.3 | 19.3 | 502244-3339       | 502244-3330          | 33             |
| F    | E    | (D)   | (C) | (B)  | (A)  | 製品単体<br>CONNECTOR | 製品番号<br>MATERIAL NO. | 極数<br>CIRCUITS |

|                                                                                |             |                                                            |       |                            |                                                                                                                                  |                                                           |                        |                           |  |        |
|--------------------------------------------------------------------------------|-------------|------------------------------------------------------------|-------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|------------------------|---------------------------|--|--------|
| REVISED<br>EC NO: J2009-1513<br>DRWN:MTAKASAKI<br>CHKD:MHAYASHI<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>NNISHI         | DATE<br>'06/5/22                                                                                                                 | TITLE<br>0.5 FFC CONN.FOR LVDS<br>HOUSING ASSY EMBSTP PKG |                        |                           |  |        |
|                                                                                |             | 10 OVER 30 UNDER                                           | ±0.25 | CHECKED BY<br>SMARUYAMA    | DATE<br>'06/5/22                                                                                                                 |                                                           |                        |                           |  |        |
|                                                                                |             | 30 OVER                                                    | ±0.3  | APPROVED BY<br>SICHIKAWA   | DATE<br>'06/5/22                                                                                                                 | MOLEX MOLEX INCORPORATED                                  |                        |                           |  |        |
|                                                                                |             | ANGULAR                                                    | ±1 °  | MATERIAL NO.               |                                                                                                                                  |                                                           |                        |                           |  |        |
|                                                                                |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       | SEE TABLE                  |                                                                                                                                  | SD-502244-002                                             |                        |                           |  | 3 OF 3 |
|                                                                                | REV         |                                                            |       | SIZE<br>A3                 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                           |                        |                           |  |        |



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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