

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0524372871

Status:

Active

Overview:

Description:

0.50mm (.020") Pitch FFC/FPC Connector, Right Angle, SMT, ZIF, Bottom Contact Style, 28 Circuits, Gold Contact Plating

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

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

52437Series

Agency Certification

UL

E29179

General

Product Family

FFC/FPC Connectors

Series

52437

Overview

ffc\_fpc\_smt

Product Name

N/A

Physical

Circuits (Loaded)

28

Color - Resin

Natural

Contact Position

Bottom

Durability (mating cycles max)

20

Entry Angle

90° Angle

Flammability

94V-0

Material - Metal

Phosphor Bronze

Material - Plating Mating

Gold

Material - Plating Termination

Gold

Material - Resin

High Temperature Thermoplastic

Number of Rows

1

Orientation

Right Angle

PCB Locator

No

PCB Retention

None

Packaging Type

Embossed Tape on Reel

Pitch - Mating Interface (in)

0.020 In

Pitch - Mating Interface (mm)

0.50 mm

Plating min: Mating (µin)

4

Plating min: Mating (µm)

0.1

Plating min: Termination (µin)

2

Plating min: Termination (µm)

0.05

Polarized to PCB

Yes

Stackable

No

Surface Mount Compatible (SMC)

N/A

Temperature Range - Operating

-40°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-52437-001

Product Specification

PS-52437-027, RPS-52437-040, RPS-52437-041, RPS-52437-042, RPS-52437-043, RPS-52437-045, RPS-52437-046

Sales Drawing

SD-52437-019, SD-52437-020

This document was generated on 06/04/2010

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



F

E

D

C

B

A

F

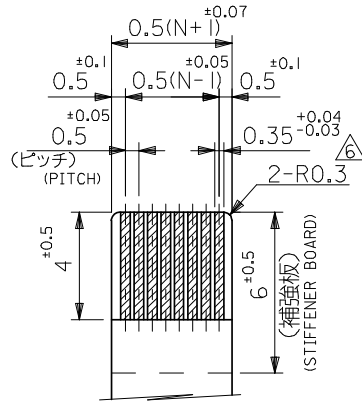
E

D

C

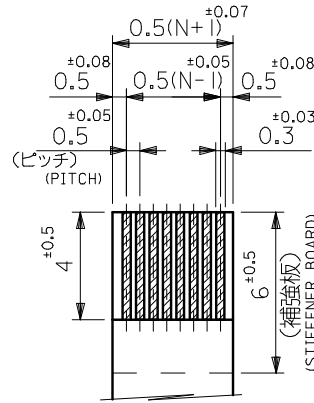
B

A



適合FPC推奨寸法  
APPLICABLE FPC  
RECOMMENDED DIMENSION.

(仕上がり厚さ: 0.3<sup>+0.05</sup>)  
(THICKNESS: 0.3<sup>+0.05</sup>)



適合FFC推奨寸法  
APPLICABLE FFC  
RECOMMENDED DIMENSION.

(仕上がり厚さ: 0.3<sup>+0.05</sup>)  
(THICKNESS: 0.3<sup>+0.05</sup>)

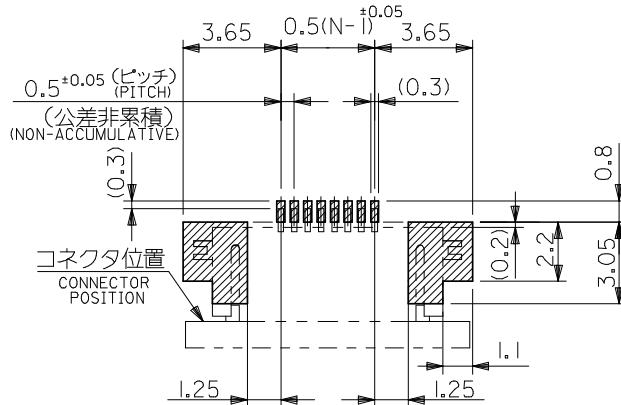
FPCについて:

打抜き方向は導体側から補強板側を推奨致します。  
補強フィルム材質はポリイミドを推奨致します。  
接着剤は熱硬化接着剤を推奨致します。

ABOUT FPC:

RECOMMENDED PUNCHER DIRECTION :  
FROM CONDUCTOR SIDE TO STIFFENER BOARD SIDE.

RECOMMENDED MATERIAL:  
STIFFENER FILM : POLYIMIDE  
BONDING AGENT : THERMOSETTING BONDING AGENT



参考基板レイアウト  
(マウント面)

RECOMMENDED P.C.B.O.A.R.D.  
P.A.T.T.E.R.N. D.I.M.E.N.S.I.O.N. (R.E.F.)  
(M.O.U.N.T.I.N.G. S.I.D.E.)

|      |      |       |      |                  |                       |      |
|------|------|-------|------|------------------|-----------------------|------|
| 21.6 | 19.6 | 15.65 | 14.5 | 52437-3071       | 52437-3029            | 30   |
| 21.1 | 19.1 | 15.15 | 14.0 | 52437-2971       | 52437-2929            | 29   |
| 20.6 | 18.6 | 14.65 | 13.5 | 52437-2871       | 52437-2829            | 28   |
| 20.1 | 18.1 | 14.15 | 13.0 | 52437-2771       | 52437-2729            | 27   |
| 19.6 | 17.6 | 13.65 | 12.5 | 52437-2671       | 52437-2629            | 26   |
| 19.1 | 17.1 | 13.15 | 12.0 | 52437-2571       | 52437-2529            | 25   |
| 18.6 | 16.6 | 12.65 | 11.5 | 52437-2471       | 52437-2429            | 24   |
| 18.1 | 16.1 | 12.15 | 11.0 | 52437-2371       | 52437-2329            | 23   |
| 17.6 | 15.6 | 11.65 | 10.5 | 52437-2271       | 52437-2229            | 22   |
| 17.1 | 15.1 | 11.15 | 10.0 | 52437-2171       | 52437-2129            | 21   |
| 16.6 | 14.6 | 10.65 | 9.5  | 52437-2071       | 52437-2029            | 20   |
| 13.6 | 11.6 | 7.65  | 6.5  | 52437-1471       | 52437-1429            | 14   |
| 12.6 | 10.6 | 6.65  | 5.5  | 52437-1271       | 52437-1229            | 12   |
| D    | C    | B     | (A)  | EMBOSSED TAPE    | MATERIAL NO.          | 極数   |
|      |      |       |      | ORDER No. オーダー番号 | MODEL NO. 52437-**-29 | CKT. |

|                                                                              |             |                                          |                                                            |                            |                                                                                                                                  |                                                                         |                        |                           |  |  |
|------------------------------------------------------------------------------|-------------|------------------------------------------|------------------------------------------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------|---------------------------|--|--|
| REVISED<br>EC NO: J2008-4048<br>DRWN:WABEI<br>CHK'D: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.UMEDA        | DATE<br>2004/12/08                                                                                                               | TITLE<br>0.5 FPC CONN.ZIF FOR<br>SMT.RA (BOTTOM CONTACT)<br>-LEAD FREE- |                        |                           |  |  |
|                                                                              |             | 10 OVER 30 UNDER                         | ±0.25                                                      | CHECKED BY<br>K.TOYOTA     | DATE<br>2004/12/08                                                                                                               |                                                                         |                        |                           |  |  |
|                                                                              |             | 30 OVER                                  | ±0.3                                                       | APPROVED BY<br>N.UKITA     | DATE<br>2004/12/08                                                                                                               | MOLEX MOLEX INCORPORATED                                                |                        |                           |  |  |
|                                                                              |             | ANGULAR ±3 °                             |                                                            | MATERIAL NO.               |                                                                                                                                  | DOCUMENT NO.                                                            |                        | SHEET NO.                 |  |  |
|                                                                              |             |                                          |                                                            | SEE TABLE                  |                                                                                                                                  | SD-52437-019                                                            |                        | 2 OF 2                    |  |  |
|                                                                              | REV         |                                          | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                            | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                         |                        |                           |  |  |

F

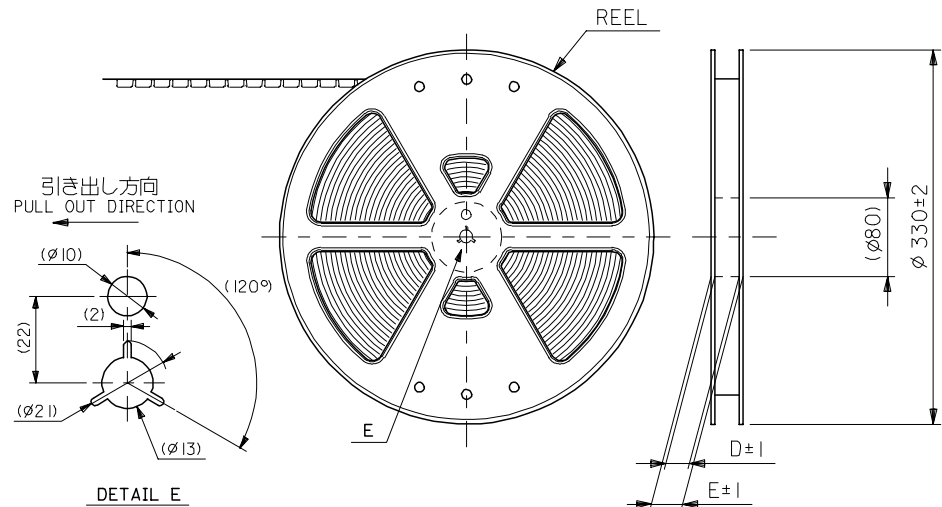
E

D

C

B

A



5. 材料 (MATERIAL)

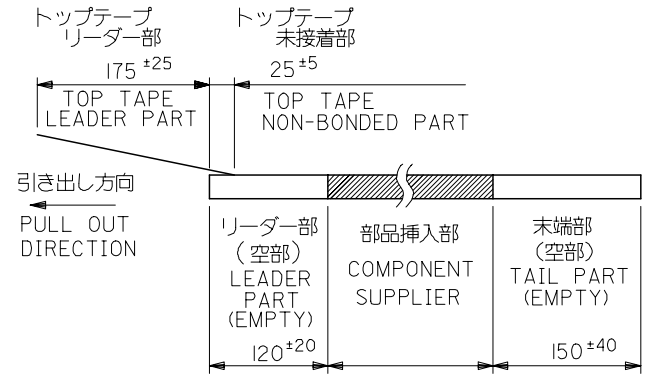
キャリアテープ (CARRIER TAPE) : ポリプロピレン (POLYPROPYLENE)  
トップテープ (TOPTAPE) : PET, PE, PEF  
リール (REEL) : ポリスチレン (PS) <リサイクル材を含む>  
POLYSTYREN (PS) <RECYCLE MATERIAL CONTAINED>

6. 本製品は 52437-\*\*\*9I の鉛フリー品である。

THIS PRODUCT IS LEAD FREE OF 52437-\*\*\*9I.

注記 NOTES

- 製品番号52437-\*\*\*29の梱包状態はアクチュエータがロックした状態とする。  
製品の詳細寸法については図面SD-52437-019を参照下さい。  
IN THE PACKAGE, ACTUATOR OF PART NO. 52437-\*\*\*29 SHOULD BE LOCKED  
RE DETAILED DIMENSIONS, SEE SD-52437-019.
- 梱包数量 : 1000個/リール  
NUMBER OF CONNECTORS: 1000PCS/REEL
- リードテープ長さ LEAD TAPE LENGTH



4. トップテープの剥離強度 : (剥離方向は下図参照)

0. 1N~1.3N {10gf~130gf} 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事。)

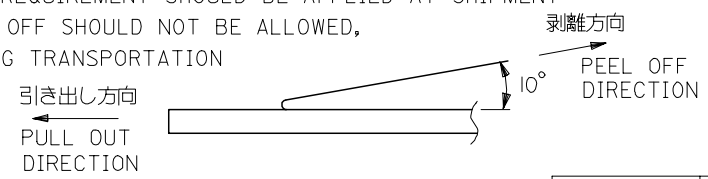
PEELING OFF FORCE OF TOP TAPE

0. IN ~1.3N {10gf ~130gf} (PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)

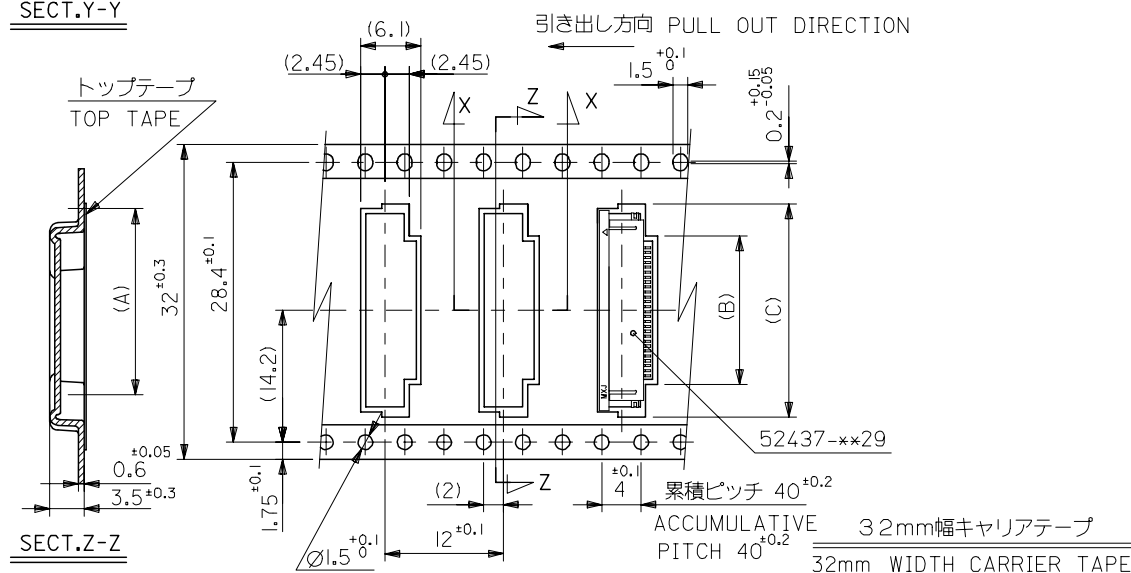
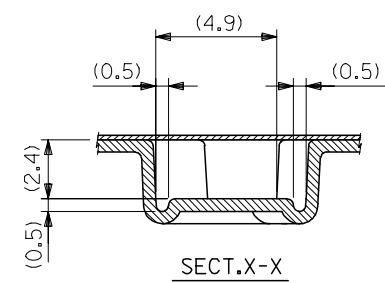
THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT

PEEL OFF SHOULD NOT BE ALLOWED,

DURING TRANSPORTATION

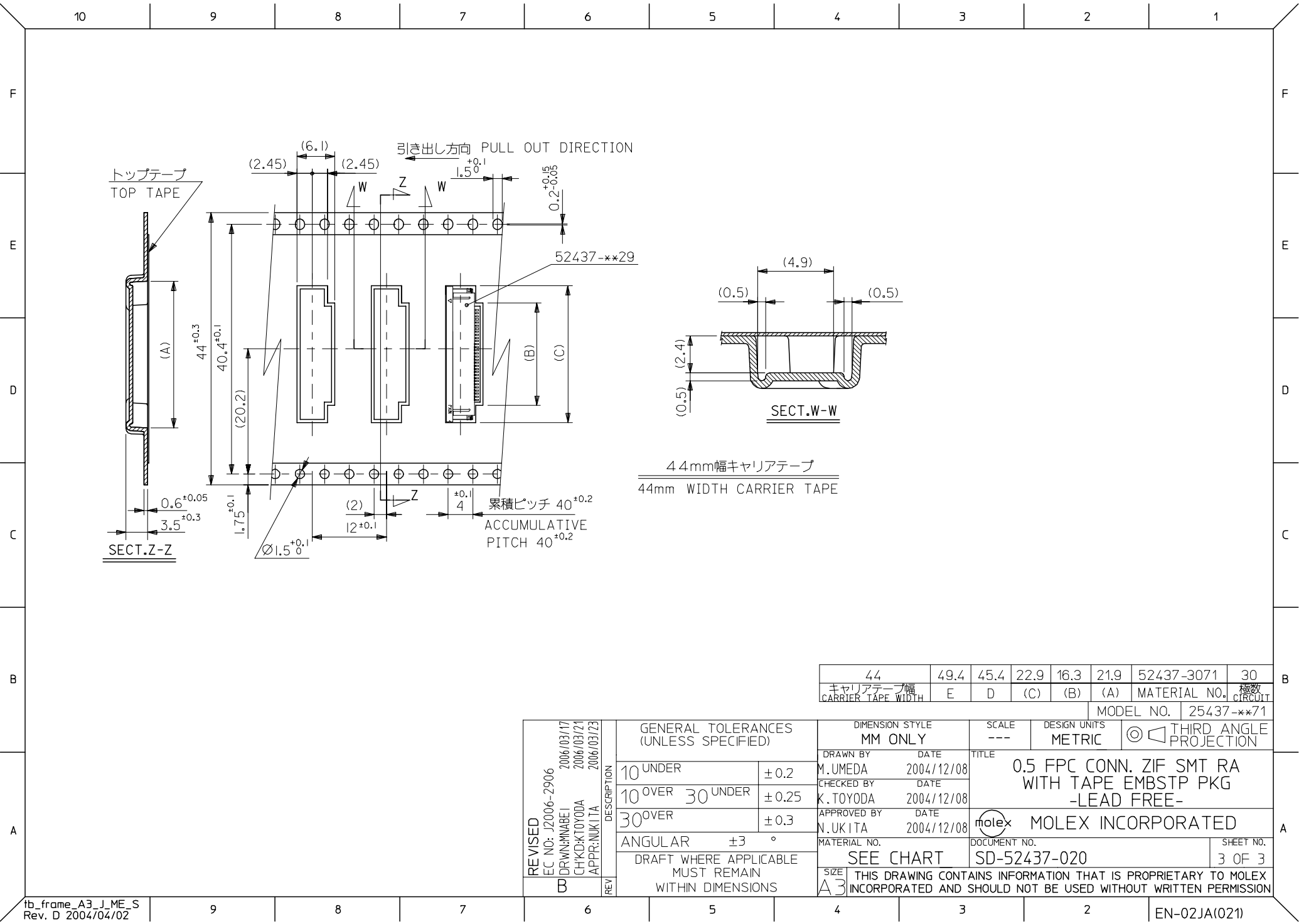


|                                                                           |                                                       |                                                            |       |                            |                                                                                                                                  |                                                                          |                        |                                                  |  |        |
|---------------------------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------------|-------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|------------------------|--------------------------------------------------|--|--------|
| REVISED<br>EC NO: J2006-2906<br>DRWN:MABE1<br>CHKD:KTOYODA<br>APPR:NUKITA | DESCRIPTION<br>2006/03/17<br>2006/03/21<br>2006/03/23 | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |       | DIMENSION STYLE<br>MM ONLY |                                                                                                                                  | SCALE<br>---                                                             | DESIGN UNITS<br>METRIC | MODEL NO. 52437-020<br>THIRD ANGLE<br>PROJECTION |  |        |
|                                                                           |                                                       | 10 UNDER                                                   | ±0.2  | DRAWN BY<br>M.UMEDA        | DATE<br>2004-12/08                                                                                                               | TITLE<br>0.5 FPC CONN. ZIF SMT RA<br>WITH TAPE EMBSTP PKG<br>-LEAD FREE- |                        |                                                  |  |        |
|                                                                           |                                                       | 10 OVER 30 UNDER                                           | ±0.25 | CHECKED BY<br>K.TOYODA     | DATE<br>2004-12/08                                                                                                               |                                                                          |                        |                                                  |  |        |
|                                                                           |                                                       | 30 OVER                                                    | ±0.3  | APPROVED BY<br>N.UKITA     | DATE<br>2004-12/08                                                                                                               | MOLEX INCORPORATED                                                       |                        |                                                  |  |        |
|                                                                           |                                                       | ANGULAR                                                    | ±3 °  | MATERIAL NO.               |                                                                                                                                  |                                                                          |                        |                                                  |  |        |
|                                                                           |                                                       | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       | SEE CHART                  |                                                                                                                                  | SD-52437-020                                                             |                        |                                                  |  | 1 OF 3 |
|                                                                           |                                                       |                                                            |       | SIZE<br>A3                 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                          |                        |                                                  |  |        |



|                                |      |      |      |      |      |              |               |
|--------------------------------|------|------|------|------|------|--------------|---------------|
| 32                             | 37.4 | 33.4 | 22.4 | 15.8 | 21.4 | 52437-2971   | 29            |
|                                |      |      | 21.9 | 15.3 | 20.9 | 52437-2871   | 28            |
|                                |      |      | 21.4 | 14.8 | 20.4 | 52437-2771   | 27            |
|                                |      |      | 20.9 | 14.3 | 19.9 | 52437-2671   | 26            |
|                                |      |      | 20.4 | 13.8 | 19.4 | 52437-2571   | 25            |
|                                |      |      | 19.9 | 13.3 | 18.9 | 52437-2471   | 24            |
|                                |      |      | 19.4 | 12.8 | 18.4 | 52437-2371   | 23            |
|                                |      |      | 18.9 | 12.3 | 17.9 | 52437-2271   | 22            |
| 24                             | 29.4 | 25.4 | 18.4 | 11.8 | 17.4 | 52437-2171   | 21            |
|                                |      |      | 17.9 | 11.3 | 16.9 | 52437-2071   | 20            |
|                                |      |      | 14.9 | 8.3  | 13.9 | 52437-1471   | 14            |
|                                |      |      | 13.9 | 7.3  | 12.9 | 52437-1271   | 12            |
|                                |      |      |      |      |      |              |               |
| キャリアテープ幅<br>CARRIER TAPE WIDTH | E    | D    | (C)  | (B)  | (A)  | MATERIAL NO. | 極数<br>CIRCUIT |

|         |                                                                      |                                        |             |                                                            |        |                            |                    |                                                                                                                                  |                        |                           |                           |
|---------|----------------------------------------------------------------------|----------------------------------------|-------------|------------------------------------------------------------|--------|----------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------|---------------------------|
| REVISED | EC NO: J2006-2906<br>DRAWN: NABEI<br>CHKD: K. TOYODA<br>APPR: NUKITA | 2006/03/17<br>2006/03/21<br>2006/03/21 | DESCRIPTION | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |        | DIMENSION STYLE<br>MM ONLY |                    | SCALE<br>---                                                                                                                     | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION | MODEL NO.<br>SD-52437-020 |
|         |                                                                      |                                        |             | 10 UNDER                                                   | ± 0.2  | DRAWN BY<br>M.UMEDA        | DATE<br>2004/12/08 | TITLE<br>0.5 FPC CONN. ZIF SMT RA<br>WITH TAPE EMBSTP PKG<br>-LEAD FREE-                                                         |                        |                           |                           |
|         |                                                                      |                                        |             | 10 OVER 30 UNDER                                           | ± 0.25 | CHECKED BY<br>K. TOYODA    | DATE<br>2004/12/08 |                                                                                                                                  |                        |                           |                           |
|         |                                                                      |                                        |             | 30 OVER                                                    | ± 0.3  | APPROVED BY<br>N. NUKITA   | DATE<br>2004/12/08 | MOLEX INCORPORATED<br>DOCUMENT NO. SD-52437-020<br>SHEET NO. 2 OF 3                                                              |                        |                           |                           |
|         |                                                                      |                                        |             | ANGULAR ± 3 °                                              |        | MATERIAL NO.<br>SEE CHART  |                    |                                                                                                                                  |                        |                           |                           |
| 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 |                        |                           |                           |



|                                |      |      |      |      |      |              |               |
|--------------------------------|------|------|------|------|------|--------------|---------------|
| 44                             | 49.4 | 45.4 | 22.9 | 16.3 | 21.9 | 52437-3071   | 30            |
| キャリアテープ幅<br>CARRIER TAPE WIDTH | E    | D    | (C)  | (B)  | (A)  | MATERIAL NO. | 極数<br>CIRCUIT |
| MODEL NO.                      |      |      |      |      |      | 25437-**-71  |               |

|                                                                                                                        |                    |                                                            |            |                                                                                                                                  |                    |                                                                          |                        |                           |  |  |
|------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------|------------------------|---------------------------|--|--|
| REVISED<br>EC NO: J2006-2906<br>DRWN: NABEJ 2006/03/17<br>CHKD: KTOYODA 2006/03/21<br>APPR: NUKITA 2006/03/23<br><br>B | 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>M.UMEDA                                                                                                              | DATE<br>2004/12/08 | TITLE<br>0.5 FPC CONN. ZIF SMT RA<br>WITH TAPE EMBSTP PKG<br>-LEAD FREE- |                        |                           |  |  |
|                                                                                                                        |                    | 10 OVER 30 UNDER                                           | ± 0.25     | CHECKED BY<br>K. TOYODA                                                                                                          | DATE<br>2004/12/08 |                                                                          |                        |                           |  |  |
|                                                                                                                        |                    | 30 OVER                                                    | ± 0.3      | APPROVED BY<br>N. UKITA                                                                                                          | DATE<br>2004/12/08 | MOLEX INCORPORATED                                                       |                        |                           |  |  |
|                                                                                                                        |                    | ANGULAR ±3 °                                               |            | MATERIAL NO.                                                                                                                     |                    | DOCUMENT NO.                                                             |                        | SHEET NO.                 |  |  |
|                                                                                                                        |                    | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |            | SEE CHART                                                                                                                        |                    | SD-52437-020                                                             |                        | 3 OF 3                    |  |  |
|                                                                                                                        |                    |                                                            | 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.**

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

### Офис по работе с юридическими лицами:

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

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9