

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0522710879

Status:

Active

Overview:

Description:

1.00mm (.039") Pitch FFC/FPC Connector, Right Angle, SMT, ZIF, Bottom Contact Style, 8 Circuits, Lead-free, High Barrier Packaging

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Not Halogen-Free

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

52271Series

Agency Certification

|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E29179  |

General

|                |                    |
|----------------|--------------------|
| Product Family | FFC/FPC Connectors |
| Series         | 52271              |
| Overview       | ffc_fpc_smt        |
| Product Name   | N/A                |

Physical

|                                |                       |
|--------------------------------|-----------------------|
| Circuits (Loaded)              | 8                     |
| Color - Resin                  | Natural               |
| Contact Position               | Bottom                |
| Durability (mating cycles max) | 30                    |
| Entry Angle                    | 90° Angle             |
| Flammability                   | 94V-0                 |
| Mated Height (in)              | 0.118 In              |
| Mated Height (mm)              | 3.00 mm               |
| Material - Metal               | Phosphor Bronze       |
| Material - Plating Mating      | Tin-Bismuth           |
| Material - Plating Termination | Tin-Bismuth           |
| Material - Resin               | Nylon                 |
| Number of Rows                 | 1                     |
| Orientation                    | Right Angle           |
| PCB Locator                    | No                    |
| PCB Retention                  | Yes                   |
| Packaging Type                 | Embossed Tape on Reel |
| Pitch - Mating Interface (in)  | 0.039 In              |
| Pitch - Mating Interface (mm)  | 1.00 mm               |
| Polarized to PCB               | Yes                   |
| Stackable                      | No                    |
| 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 AC (RMS)/DC |

Material Info

Reference - Drawing Numbers

|                           |                                                                                                                                                                    |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Specification | AS-52271-001                                                                                                                                                       |
| Packaging Specification   | SPK-52271-001, SPK-52271-002                                                                                                                                       |
| Product Specification     | PS-52271-053, RPS-52271-067, RPS-52271-069, RPS-52271-070, RPS-52271-072, RPS-52271-073, RPS-52271-075, RPS-52271-080, RPS-52271-085, RPS-52271-087, RPS-52271-091 |
| Sales Drawing             | SD-52271-036, SD-52271-037                                                                                                                                         |

This document was generated on 06/04/2010

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DWG. NO. SD-52271-036

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±MM DIMENSIONS IN METRIC DO NOT SCALE DRAWING

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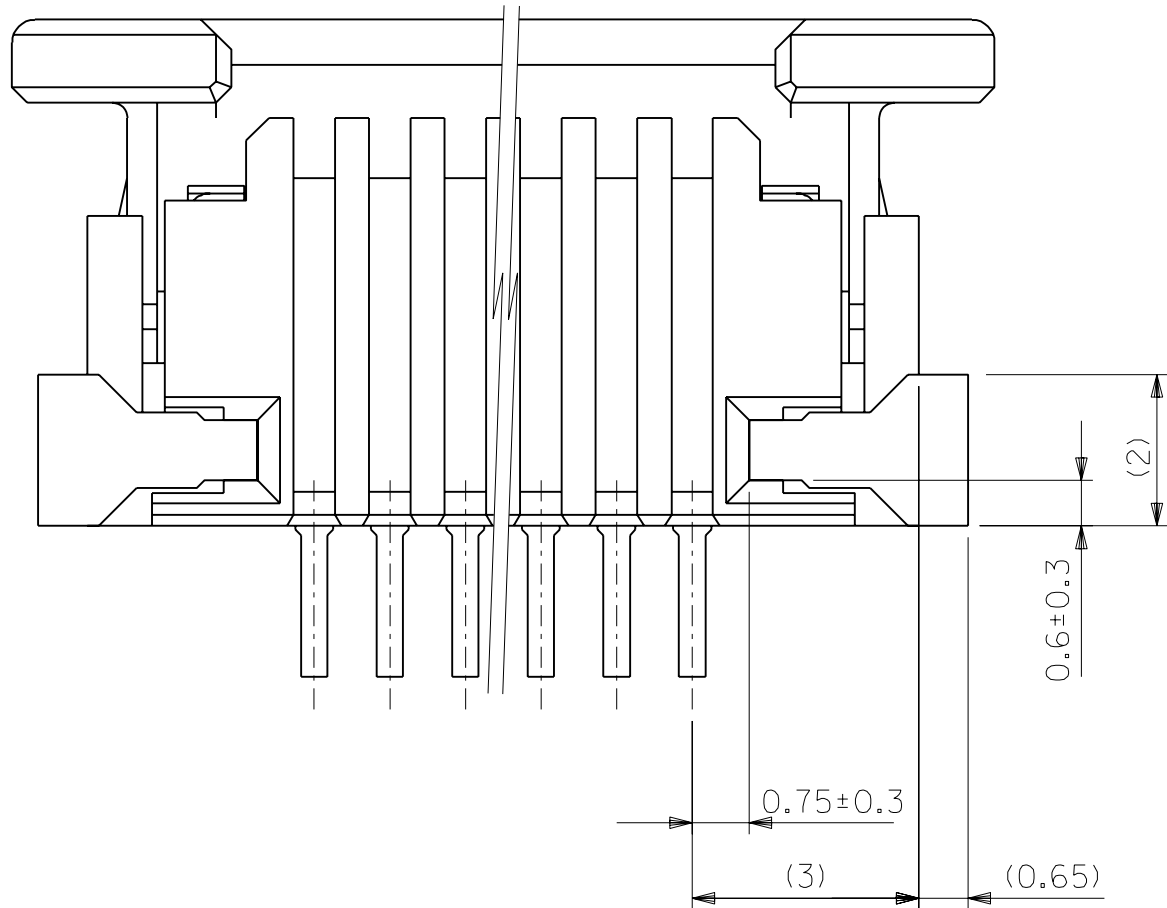
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下面図

注記 NOTES

- ① 接点部までの嵌合長さ。  
LENGTH TO CONTACT POINT.
2. 使用材料 MATERIAL  
ハウジング : 46ナイロン, UL94V-0  
HOUSING : 46NYLON, UL94V-0  
アクチュエータ : PPS, UL94V-0  
ACTUATOR : PPS, UL94V-0  
ターミナル : リン青銅 (t=0.25)  
TERMINAL : PHOS-BRO.(t=0.25)  
メッキ : 錫ビスマスメッキ 1.0マイクロメートル以上  
PLATING : TIN-BISMUTH 1.0 MICROMETER MINIMUM  
ニッケル下地 1.0マイクロメートル以上  
PLATING : NICKEL(UNDER PLATING)1.0 MICROMETER MINIMUM
- 金具 : 銅合金 (t=0.25)  
FITTING NAIL : COPPER ALLOY (t=0.25)  
メッキ : 錫メッキ 1.0マイクロメートル以上  
PLATING : TIN 1.0 MICROMETER MINIMUM  
ニッケル下地 1.0マイクロメートル以上  
PLATING : NICKEL(UNDER PLATING) 1.0 MICROMETER MINIMUM
- ③ パターンはくり止め用金具  
FITTING NAIL FOR PREVENTION OF PEELING OF P.C.B.PATTERN.
4. エンボステープ梱包時は、アクチュエータがロックした状態とする。  
WHEN CONNECTOR IS SHIPED, ACTUATOR SHOULD BE LOCKED.
- ⑤ FPC挿入深さ。  
INSERTION DEPTH OF FPC
- ⑥ パターン書き込み禁止エリア。  
NO FOOT PRINT AREA.
7. 本製品は52271-\*\*-17の鉛フリー品である。  
THIS PRODUCT IS LEAD FREE OF 52271-\*\*-17.

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

|  |  |                               |  |                                                                         |  |
|--|--|-------------------------------|--|-------------------------------------------------------------------------|--|
|  |  | MODEL NO.                     |  | 52271-**-19                                                             |  |
|  |  | 材料 MATERIAL                   |  | MOLEX-JAPAN CO.,LTD.<br>日本モレックス株式会社                                     |  |
|  |  | 仕上げ FINISH                    |  | REVISE ONLY ON CAD SYSTEM                                               |  |
|  |  | 適用電線範囲 WIRE RANGE             |  | TITLE 名称<br>1.0 FPC CONN. Z.I.F. SMT<br>(BOTTON CONTACT)<br>-LEAD FREE- |  |
|  |  | 被覆外径 INS. RANGE               |  | DWG. NO. (SHEET 2 OF 2) REV<br>SD-52271-036 B                           |  |
|  |  | DRAWN BY '04/03/12 H.KAWABATA |  | CHK'D BY '04/03/12 K.TOJO                                               |  |
|  |  | APP'D BY '04/03/12 M.SASAO    |  | 尺度 SCALE                                                                |  |
|  |  | 角度 ANGLE                      |  | ±3°                                                                     |  |
|  |  | 30 以上 OVER                    |  | ±0.3                                                                    |  |
|  |  | 10 以上 30 未満 OVER 30 UNDER     |  | ±0.25                                                                   |  |
|  |  | 10 未満 UNDER                   |  | ±0.2                                                                    |  |
|  |  | 一般公差 GENERAL TOLERANCES       |  | 記号 LTR                                                                  |  |
|  |  | 変更 REVISION                   |  | 変更内容 REVISION RECORD                                                    |  |
|  |  | DR. CHK.                      |  | 日付 DATE                                                                 |  |

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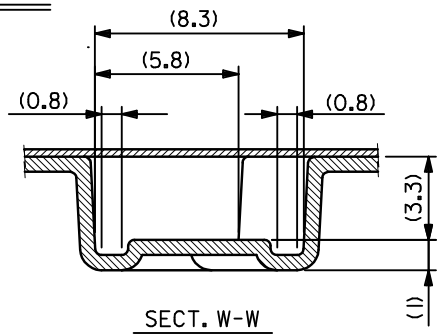
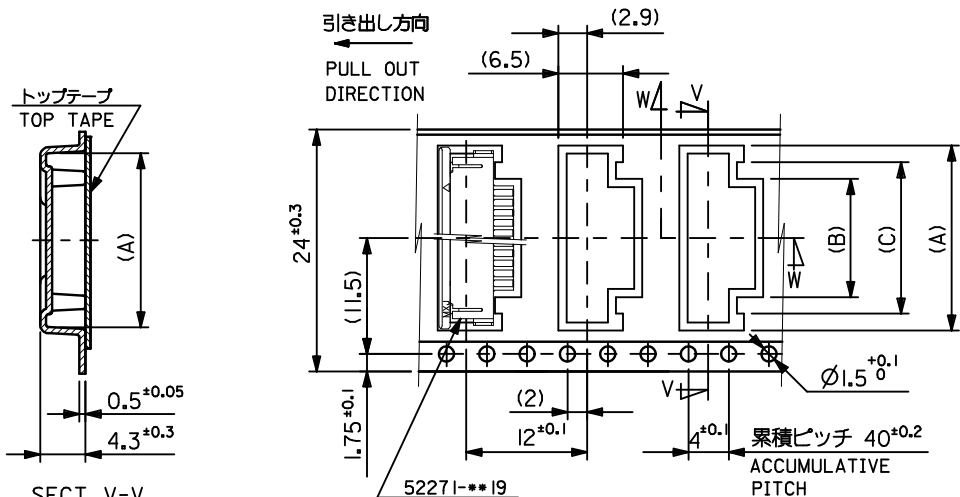
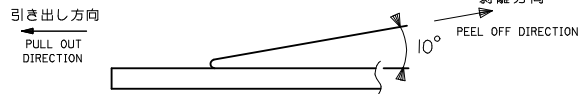
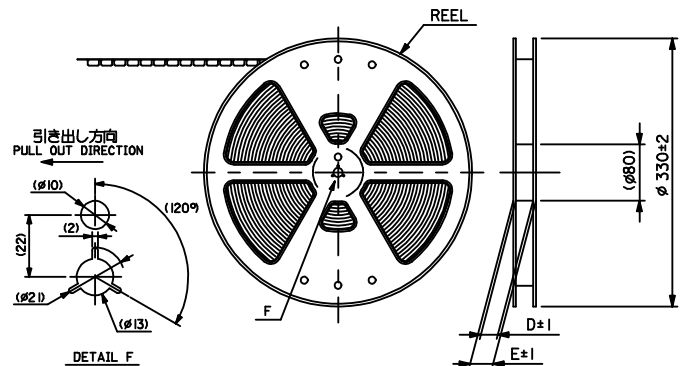
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## NOTES

- 製品番号 52271-\*\*-19 の梱包状態はアクチュエータがロックした状態とする。  
詳細寸法については 図面 SD-52271-036 を参照下さい。  
IN THE PACKAGE, ACTUATOR OF PART NO. 52271-\*\*-19 SHOULD BE LOCKED  
RE DETAILED DIMENSIONS, SEE SD-52271-036.
- 梱包数量: 1000個/リール  
NUMBER OF CONNECTORS: 1000 PCS/REEL
- リードテープ長さ LEAD TAPE LENGTH  
トップテープ リーダー部 TOP TAPE LEADER PART 175 ±25  
トップテープ 未接着部 TOP TAPE NON-BONDED PART 25 ±5
- トップテープの剥離強度: 0.1~1.3N {10~130gf} (剥離方向は下図参照)  
尚、本規格値は、出荷時に適用。(但し、輸送時に剥離が発生しない事。)  
PEELING OFF FORCE OF TOP TAPE: 0.1~1.3N {10~130gf}  
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)  
THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT  
PEEL OFF SHOULD NOT BE ALLOWED, DURING TRANSPORTATION
- 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 (TOP TAPE): 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>
- 本製品は52271-\*\*-19の鉛フリー品である。  
THIS PRODUCT IS LEAD FREE OF 52271-\*\*-90.
- 本製品は乾燥剤入り、ハイバリア梱包仕様である。  
THIS PRODUCT IS HIGH BARRIER PACKAGE WITH DESICCANT.



| 52271-**-19 | MODEL NO. | CARRIER TAPE WIDTH | E | D | 15 | 11.4 | 18.3 | 52271-1179 | 11 |
|-------------|-----------|--------------------|---|---|----|------|------|------------|----|
|             |           |                    |   |   | 14 | 10.4 | 17.3 | -1079      | 10 |
|             |           |                    |   |   | 13 | 9.4  | 16.3 | -0979      | 9  |
|             |           |                    |   |   | 12 | 8.4  | 15.3 | -0879      | 8  |
|             |           |                    |   |   | 11 | 7.4  | 14.3 | -0779      | 7  |
|             |           |                    |   |   | 10 | 6.4  | 13.3 | -0679      | 6  |
|             |           |                    |   |   | 9  | 5.4  | 12.3 | -0579      | 5  |
|             |           |                    |   |   | 8  | 4.4  | 11.3 | 52271-0479 | 4  |

|         |                   |          |                 |             |            |            |            |             |                                                            |  |                            |                         |              |                        |                                                                                                                                  |                              |                                                                      |  |  |                     |
|---------|-------------------|----------|-----------------|-------------|------------|------------|------------|-------------|------------------------------------------------------------|--|----------------------------|-------------------------|--------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------|--|--|---------------------|
| REVISED | EC NO. J2009-2061 | DRWN:TKN | CHKD:HMATSUMOTO | APPR:NUKITA | 2009/05/20 | 2009/05/21 | 2009/05/21 | DESCRIPTION | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |  | DIMENSION STYLE<br>MM ONLY |                         | SCALE<br>--- | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION                                                                                                        |                              | TITLE<br><br>EMBOSSED TAPE PACKAGE<br>FOR 52271-**-19<br>-LEAD FREE- |  |  |                     |
|         |                   |          |                 |             |            |            |            |             | 10 UNDER                                                   |  | ±0.2                       | DRAWN BY<br>H.KAWABATA  |              | DATE<br>2004/03/12     |                                                                                                                                  | MOLEX MOLEX INCORPORATED     |                                                                      |  |  |                     |
|         |                   |          |                 |             |            |            |            |             | 10 OVER 30 UNDER                                           |  | ±0.25                      | CHECKED BY<br>K. TOJO   |              | DATE<br>2004/03/12     |                                                                                                                                  |                              |                                                                      |  |  |                     |
|         |                   |          |                 |             |            |            |            |             | 30 OVER                                                    |  | ±0.3                       | APPROVED BY<br>M. SASAO |              | DATE<br>2004/03/12     |                                                                                                                                  | DOCUMENT NO.<br>SD-52271-037 |                                                                      |  |  |                     |
|         |                   |          |                 |             |            |            |            |             | ANGULAR                                                    |  | ±3°                        | MATERIAL NO.            |              | SEE TABLE              |                                                                                                                                  |                              |                                                                      |  |  | SHEET NO.<br>1 OF 3 |
|         |                   |          |                 |             |            |            |            |             | 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 |                              |                                                                      |  |  |                     |
|         |                   |          |                 |             |            |            |            |             | A                                                          |  | REV                        |                         |              |                        |                                                                                                                                  |                              |                                                                      |  |  |                     |

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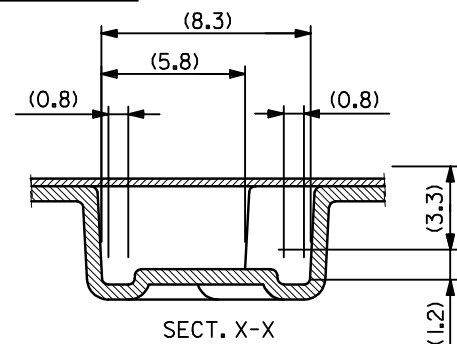
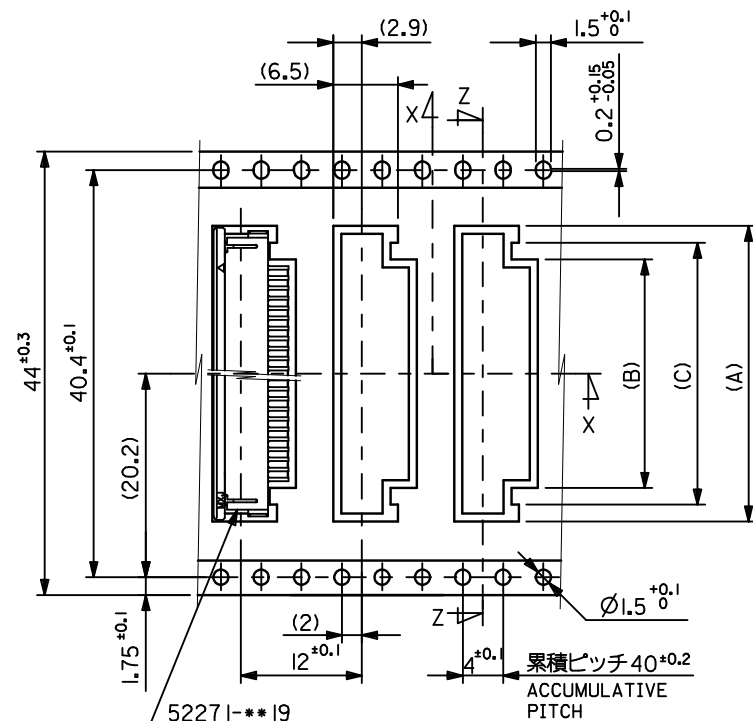
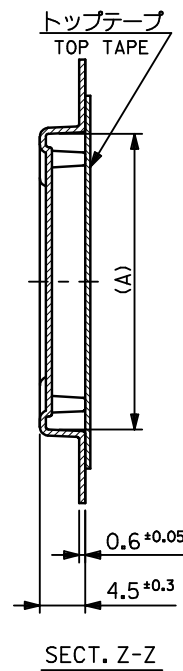
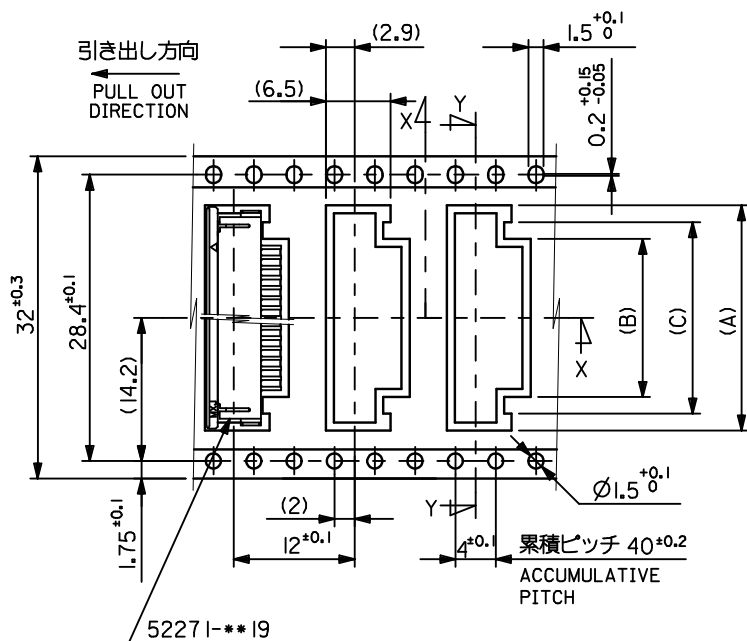
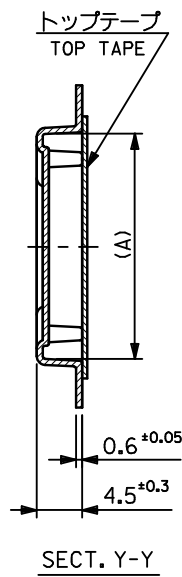
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|    |      |      |    |      |       |            |    |
|----|------|------|----|------|-------|------------|----|
| 44 | 49.4 | 45.4 | 31 | 27.4 | 34.35 | 52271-2779 | 27 |
|    |      |      | 30 | 26.4 | 33.35 | -2679      | 26 |
|    |      |      | 29 | 25.4 | 32.35 | -2579      | 25 |
|    |      |      | 28 | 24.4 | 31.35 | -2479      | 24 |
|    |      |      | 27 | 23.4 | 30.35 | -2379      | 23 |
|    |      |      | 26 | 22.4 | 29.35 | -2279      | 22 |
|    |      |      | 25 | 21.4 | 28.35 | -2179      | 21 |
|    |      |      | 24 | 20.4 | 27.35 | -2079      | 20 |
|    |      |      | 23 | 19.4 | 26.35 | -1979      | 19 |
|    |      |      | 22 | 18.4 | 25.35 | -1879      | 18 |
|    |      |      | 21 | 17.4 | 24.35 | -1779      | 17 |
|    |      |      | 20 | 16.4 | 23.35 | -1679      | 16 |
|    |      |      | 19 | 15.4 | 22.35 | -1579      | 15 |
|    |      |      | 18 | 14.4 | 21.35 | -1479      | 14 |

|    |      |      |     |      |       |              |    |
|----|------|------|-----|------|-------|--------------|----|
| 32 | 37.4 | 33.4 | 17  | 13.4 | 20.35 | -1379        | 13 |
|    |      |      | 16  | 12.4 | 19.35 | 52271-1279   | 12 |
|    |      |      | (C) | (B)  | (A)   | MATERIAL NO. |    |
|    |      |      | E   | D    |       | 電 装 部        |    |

キャリアテープ幅  
CARRIER TAPE WIDTH  
tb\_frame\_A3\_J\_ME\_S  
Rev. E 2006/04/15

|                                                                                                                      |             |                                                            |            |                                                                                                                                  |                    |                                                                 |                        |                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|
| REVISED<br>EC NO: J2009-2061<br>2009/05/20<br>DRWN:TKON<br>CHKD:MATSUMOTO<br>2009/05/21<br>APPR:NUKITA<br>2009/05/21 | 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>H.KAWABATA                                                                                                           | DATE<br>2004/03/12 | TITLE<br>EMBOSSD TAPE PACKAGE<br>FOR 52271-**-19<br>-LEAD FREE- |                        |                                                                                                                 |
|                                                                                                                      |             | 10 OVER 30 UNDER                                           | ±0.25      | CHECKED BY<br>K. TOJO                                                                                                            | DATE<br>2004/03/12 |                                                                 |                        |                                                                                                                 |
|                                                                                                                      |             | 30 OVER                                                    | ±0.3       | APPROVED BY<br>M. SASAO                                                                                                          | DATE<br>2004/03/12 |                                                                 |                        |                                                                                                                 |
|                                                                                                                      |             | ANGULAR                                                    | ±3°        | MATERIAL NO.                                                                                                                     |                    |                                                                 |                        |                                                                                                                 |
|                                                                                                                      | REV         | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |            | SEE TABLE                                                                                                                        |                    | SD-52271-037                                                    |                        | SHEET NO.<br>2 OF 3                                                                                             |
| A                                                                                                                    |             |                                                            | 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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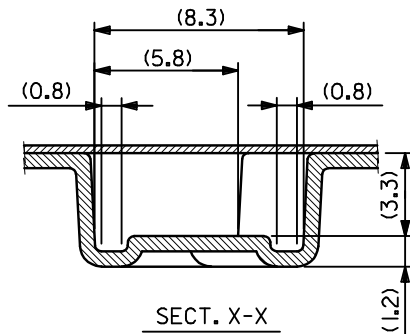
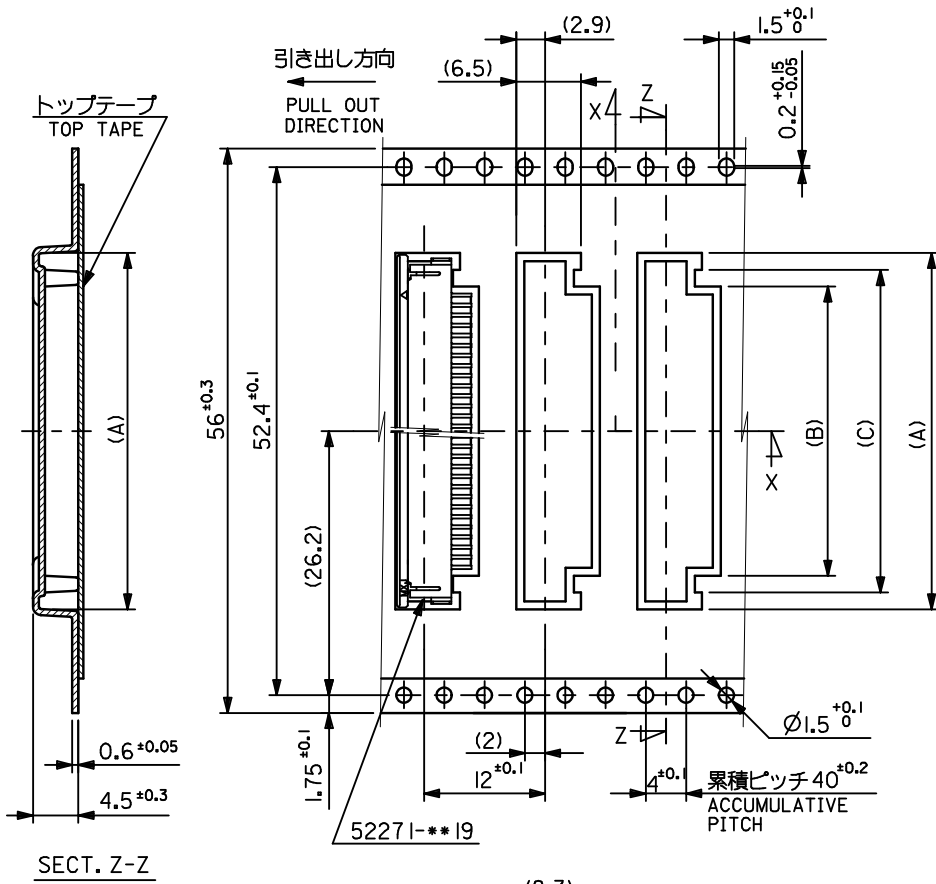
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|                                |      |      |     |      |       |              |             |
|--------------------------------|------|------|-----|------|-------|--------------|-------------|
| 56                             | 61.4 | 57.4 | 34  | 30.4 | 37.35 | 5227I-3079   | 30          |
|                                |      |      | 33  | 29.4 | 36.35 | 5227I-2979   | 29          |
|                                |      |      | 32  | 28.4 | 35.35 | 5227I-2879   | 28          |
| キャリアテープ幅<br>CARRIER TAPE WIDTH | E    | D    | (C) | (B)  | (A)   | MATERIAL NO. | 標 数<br>CKT. |

tb\_frame\_A3\_J\_ME\_S  
Rev. E 2006/04/15

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EN-02JA(021)

REVISED  
EC NO.: J2009-2061  
2009/05/20  
DRWN:TKN  
CHKD:HMATSUMOTO  
2009/05/21  
APPR:NUKITA  
2009/05/21

DESCRIPTION  
REV

GENERAL TOLERANCES  
(UNLESS SPECIFIED)

|                  |       |
|------------------|-------|
| 10 UNDER         | ±0.2  |
| 10 OVER 30 UNDER | ±0.25 |
| 30 OVER          | ±0.3  |

ANGULAR ±3°  
DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

DIMENSION STYLE  
MM ONLY

|             |            |
|-------------|------------|
| DRAWN BY    | DATE       |
| H.KAWABATA  | 2004/03/12 |
| CHECKED BY  | DATE       |
| K.TOJO      | 2004/03/12 |
| APPROVED BY | DATE       |
| M.SASAO     | 2004/03/12 |

MATERIAL NO.

SEE TABLE

SIZE  
A3

SCALE  
---

DESIGN UNITS  
METRIC

THIRD ANGLE  
PROJECTION

EMBOSSSED TAPE PAKEGE  
FOR 5227I-\*\*19  
-LEAD FREE-

MOLEX INCORPORATED

DOCUMENT NO.

SD-5227I-037

SHEET NO.

3 OF 3

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