

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0522712379

Status:

Active

Overview:

Description:

1.00mm (.039") Pitch FFC/FPC Connector, Right Angle, SMT, ZIF, Bottom Contact Style, 23 Circuits, Lead-free, High Barrier Packaging

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

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

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)              | 23                    |
| 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-52271-066, 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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1:MM DIMENSIONS IN METRIC DO NOT SCALE DRAWING

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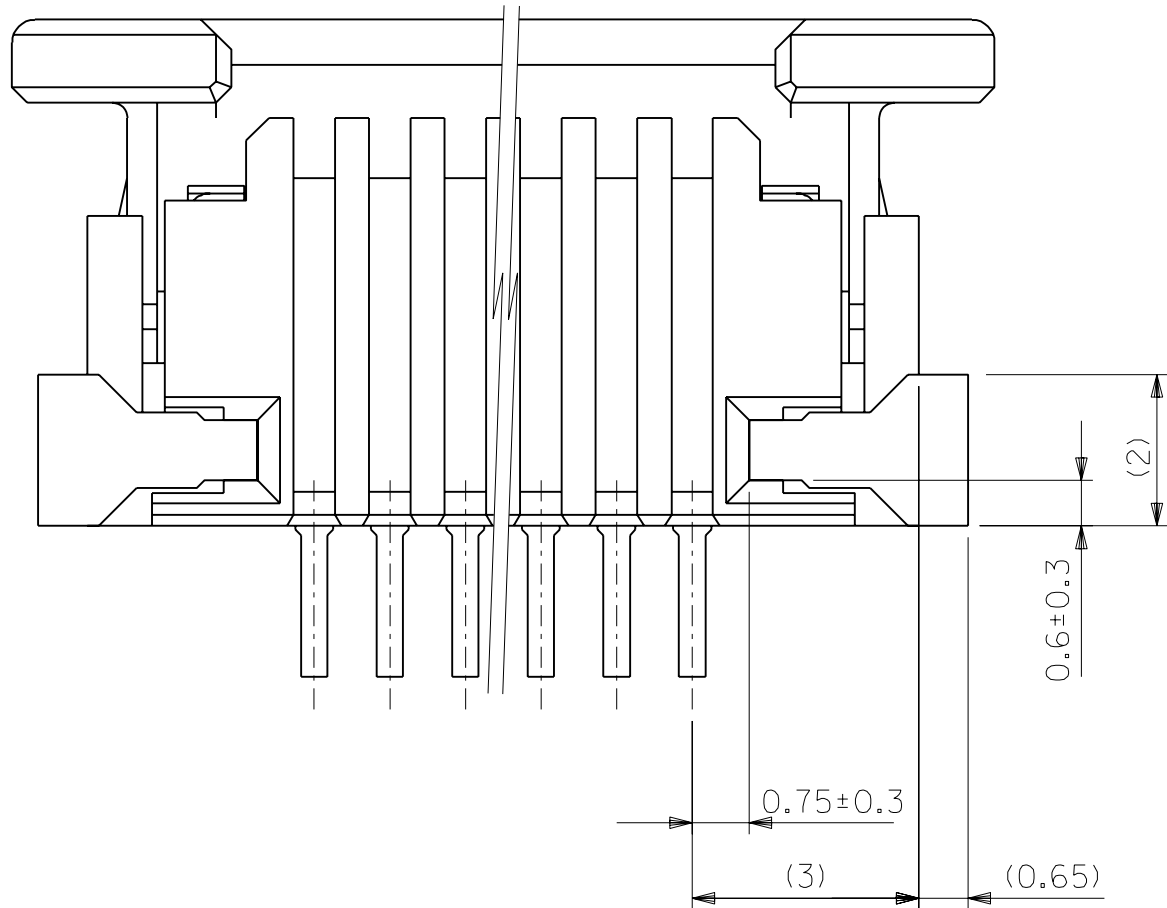
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注記 NOTES

- 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                          |  | 注記参照 SEE NOTES                                                 |  |
|  |  | 仕上げ FINISH                           |  | 注記参照 SEE NOTES                                                 |  |
|  |  | 適用電線範囲 WIRE RANGE                    |  | —//—                                                           |  |
|  |  | 被覆外径 INS. RANGE                      |  | —//—                                                           |  |
|  |  | 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 —//—                                                  |  |
|  |  | 材料 MATERIAL                          |  | MOLEX-JAPAN CO.,LTD. 日本モレックス株式会社                               |  |
|  |  | REVISE ONLY ON CAD SYSTEM            |  | TITLE 名称 I.O FPC CONN. Z.I.F. SMT (BOTTON CONTACT) -LEAD FREE- |  |
|  |  | DWG. NO. (SHEET 2 OF 2) SD-52271-036 |  | REV B                                                          |  |

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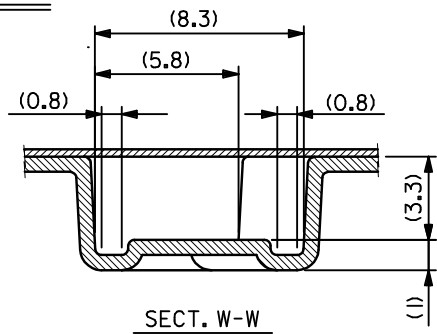
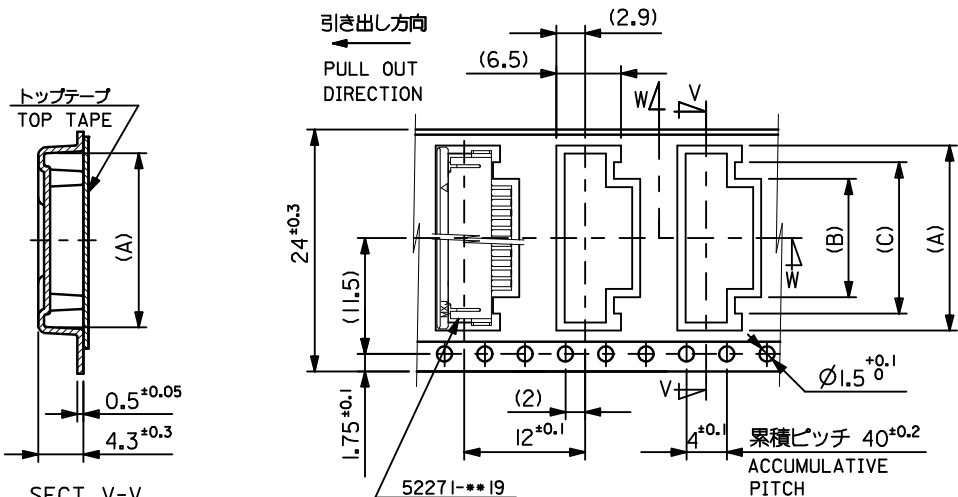
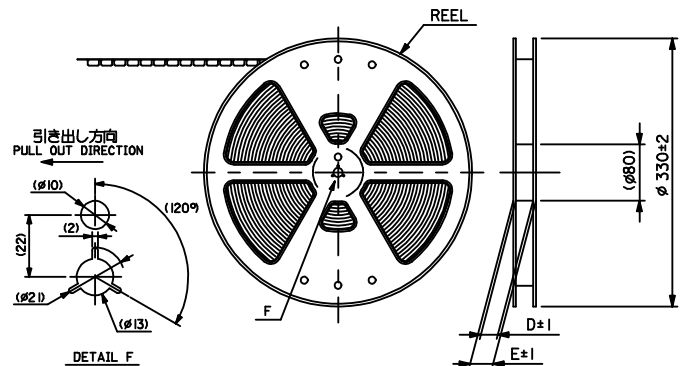
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## NOTES

- 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  
トップテープ 未接着部 TOP TAPE NON-BONDED PART  
175 ±25 25 ±5  
引き出し方向 PULL OUT DIRECTION
- 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  
引き出し方向 PULL OUT DIRECTION  
剥離方向 PEEL OFF DIRECTION  
10°
- 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.          | 24 | 29.4 | 25.4 | 15 | 11.4 | 18.3 | 52271-1179 | 11 |
|             | CARRIER TAPE WIDTH |    |      |      | 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                    |  | GENERAL TOLERANCES (UNLESS SPECIFIED) |  | DIMENSION STYLE     |  | SCALE        |  | DESIGN UNITS                                                                                                                  |  | THIRD ANGLE PROJECTION |  |
|----------------------------|--|---------------------------------------|--|---------------------|--|--------------|--|-------------------------------------------------------------------------------------------------------------------------------|--|------------------------|--|
| EC NO. J2009-2061          |  | 10 UNDER                              |  | MM ONLY             |  | ---          |  | METRIC                                                                                                                        |  | ◎ □                    |  |
| DRWN:TKN 2009/05/20        |  | 10 OVER 30 UNDER                      |  | DRAWN BY            |  | DATE         |  | TITLE                                                                                                                         |  | EMBOSSED TAPE PACKAGE  |  |
| CHKD:HMATSUMOTO 2009/05/21 |  | 30 OVER                               |  | CHECKED BY          |  | DATE         |  | H. KAWABATA 2004/03/12                                                                                                        |  | FOR 52271-**-19        |  |
| APPR:NUK ITA 2009/05/21    |  | ANGULAR                               |  | APPROVED BY         |  | DATE         |  | K. TOJO 2004/03/12                                                                                                            |  | -LEAD FREE-            |  |
| REV                        |  | DRAFT WHERE APPLICABLE                |  | M. SASAO 2004/03/12 |  | MATERIAL NO. |  | MOLEX INCORPORATED                                                                                                            |  | SD-52271-037           |  |
| A                          |  | MUST REMAIN WITHIN DIMENSIONS         |  | SIZE                |  | DOCUMENT NO. |  | SEE TABLE                                                                                                                     |  | SHEET NO.              |  |
|                            |  |                                       |  | A3                  |  |              |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  | 1 OF 3                 |  |

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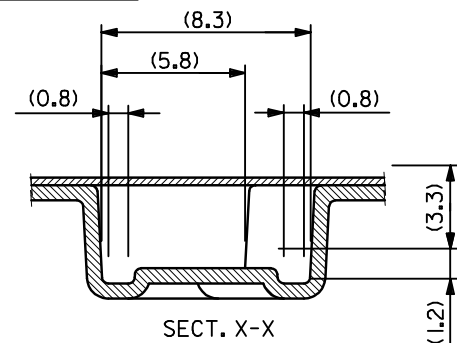
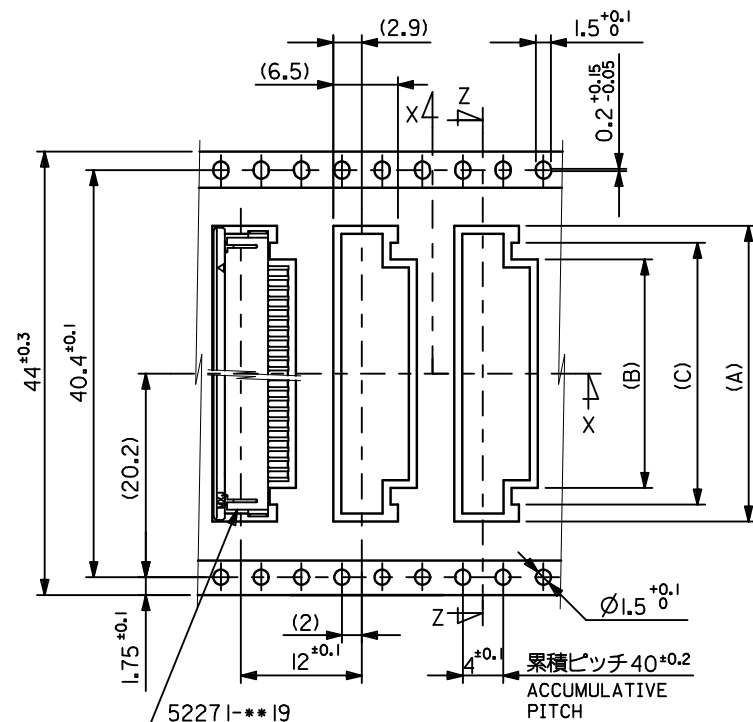
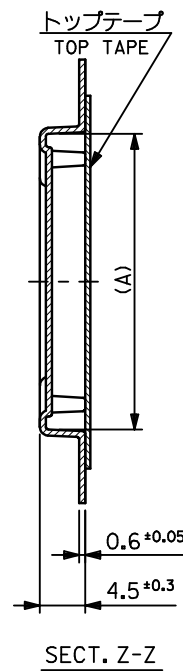
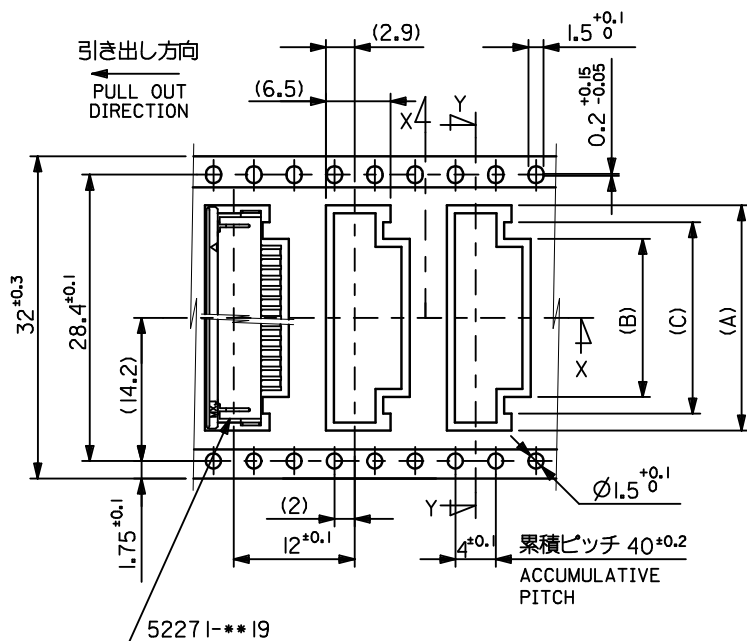
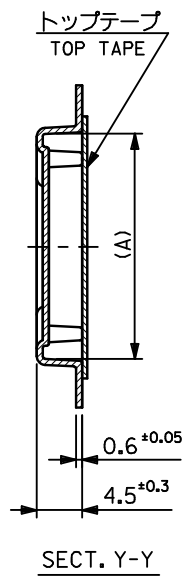
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|----|------|------|----|------|-------|------------|----|
| 44 | 49.4 | 45.4 | 31 | 27.4 | 34.35 | 52271-2779 | 27 |
|    |      |      | 30 | 26.4 | 33.35 | -2679      | 26 |
|    |      |      | 29 | 25.4 | 32.35 | -2579      | 25 |
|    |      |      | 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 |
| 32 | 37.4 | 33.4 | 20 | 16.4 | 23.35 | -1679      | 16 |
|    |      |      | 19 | 15.4 | 22.35 | -1579      | 15 |
|    |      |      | 18 | 14.4 | 21.35 | -1479      | 14 |
|    |      |      | 17 | 13.4 | 20.35 | -1379      | 13 |
|    |      |      | 16 | 12.4 | 19.35 | 52271-1279 | 12 |

Rev. E 2006/04/15

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|                                                                                                                      |                                                            |                                                                                                                                  |            |                            |                                     |                                                                 |                        |                           |  |           |
|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------|-------------------------------------|-----------------------------------------------------------------|------------------------|---------------------------|--|-----------|
| 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>EMBOSSED 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                  | MOLEX INCORPORATED                                              |                        |                           |  |           |
|                                                                                                                      |                                                            | ANGULAR ±3°                                                                                                                      |            | MATERIAL NO.               |                                     | DOCUMENT NO.                                                    |                        |                           |  | SHEET NO. |
|                                                                                                                      | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                                                                                                                  | SIZE<br>A3 |                            | SEE TABLE<br>SD-52271-037<br>2 OF 3 |                                                                 |                        |                           |  |           |
| A                                                                                                                    | REV                                                        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |            |                            |                                     |                                                                 |                        |                           |  |           |

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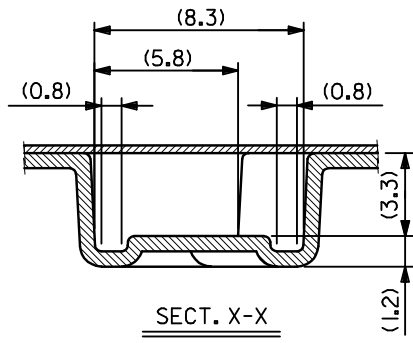
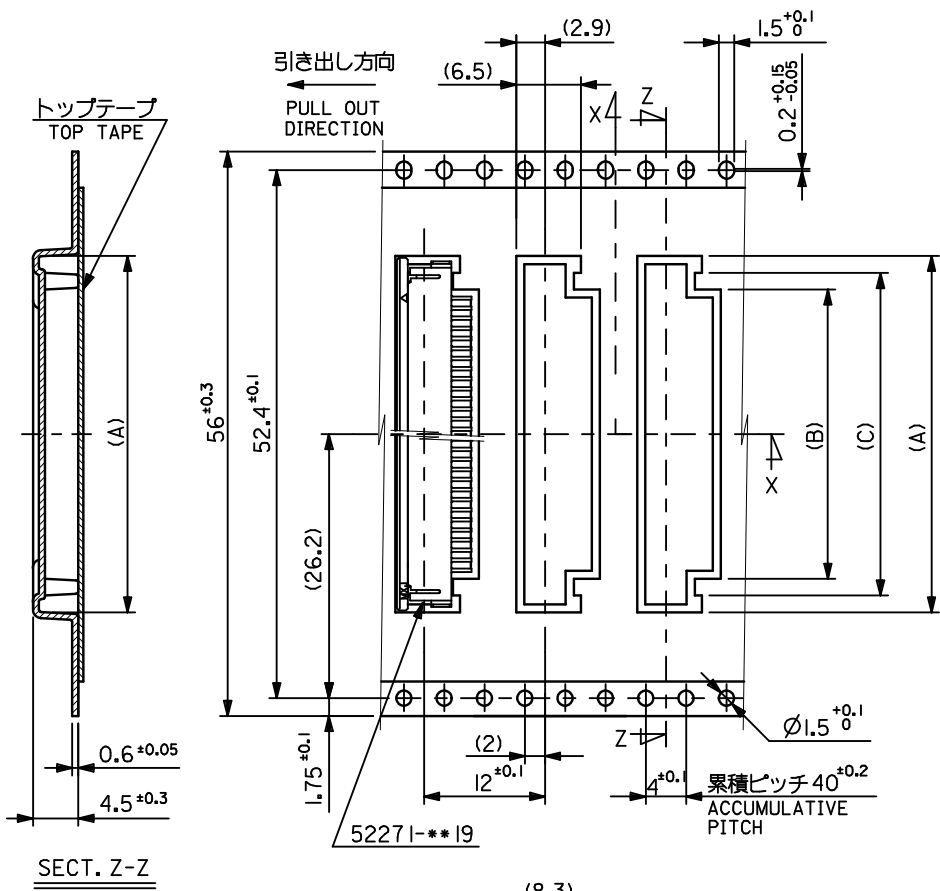
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|--------------------------------|------|------|-----|------|-------|--------------|-------------|
| 56                             | 61.4 | 57.4 | 34  | 30.4 | 37.35 | 52271-3079   | 30          |
|                                |      |      | 33  | 29.4 | 36.35 | 52271-2979   | 29          |
|                                |      |      | 32  | 28.4 | 35.35 | 52271-2879   | 28          |
| キャリアテープ幅<br>CARRIER TAPE WIDTH | E    | D    | (C) | (B)  | (A)   | MATERIAL NO. | 標 数<br>CKT. |

|                                                                                                                                     |                    |                                                                       |       |                            |                    |                                                                 |                        |                         |  |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------|-------|----------------------------|--------------------|-----------------------------------------------------------------|------------------------|-------------------------|--|
| REVISED<br>EC NO.: J2009-2061<br>2009/05/20<br>DRWN:TKN<br>2009/05/21<br>CHKD:HMATSUMOTO<br>2009/05/21<br>APPR:NUKITA<br>2009/05/21 | DESCRIPTION<br>REV | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                              |       | DIMENSION STYLE<br>MM ONLY |                    | SCALE<br>---                                                    | DESIGN UNITS<br>METRIC | MODEL NO.<br>52271-**79 |  |
|                                                                                                                                     |                    | 10 UNDER                                                              | ±0.2  | DRAWN BY<br>H.KAWABATA     | DATE<br>2004/03/12 | TITLE<br>EMBOSSSED TAPE PAKEGE<br>FOR 52271-**19<br>-LEAD FREE- |                        |                         |  |
|                                                                                                                                     |                    | 10 OVER 30 UNDER                                                      | ±0.25 | CHECKED BY<br>K.TOJO       | DATE<br>2004/03/12 | MATERIAL NO.<br>SD-52271-037                                    |                        |                         |  |
|                                                                                                                                     |                    | 30 OVER                                                               | ±0.3  | APPROVED BY<br>M.SASAO     | DATE<br>2004/03/12 | SHEET NO.<br>3 OF 3                                             |                        |                         |  |
|                                                                                                                                     |                    | ANGULAR<br>DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       | SEE TABLE                  |                    | INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION  |                        |                         |  |