

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0527460771

Status:

Active

Overview:

Description:

0.50mm (.020") Pitch FFC/FPC Connector, Right Angle, SMT, ZIF, Bottom Contact Style, 7 Circuits, Lead-free, Gold Contact Plating, High BarrierPackaging

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

52746Series

Agency Certification

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

General

|                |                    |
|----------------|--------------------|
| Product Family | FFC/FPC Connectors |
| Series         | 52746              |
| Overview       | ffc_fpc_smt        |
| Product Name   | N/A                |

Physical

|                                |                       |
|--------------------------------|-----------------------|
| Circuits (Loaded)              | 7                     |
| Contact Position               | Bottom                |
| Durability (mating cycles max) | 20                    |
| Entry Angle                    | 90° Angle             |
| Flammability                   | 94V-0                 |
| Mated Height (in)              | 0.079 In              |
| Mated Height (mm)              | 2.00 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  | -20°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-52746-001, SPK-52746-002                                                                                                                                       |
| Product Specification   | PS-52746-015, RPS-52746-017, RPS-52746-050, RPS-52746-051, RPS-52746-053, RPS-52746-054, RPS-52746-056, RPS-52746-057, RPS-52746-059, RPS-52746-060, RPS-52746-062 |
| Sales Drawing           | SD-52746-024, SD-52746-025                                                                                                                                         |

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



F

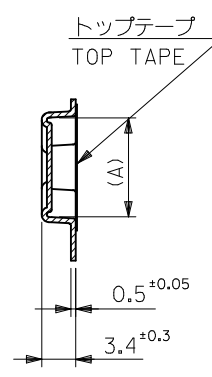
E

D

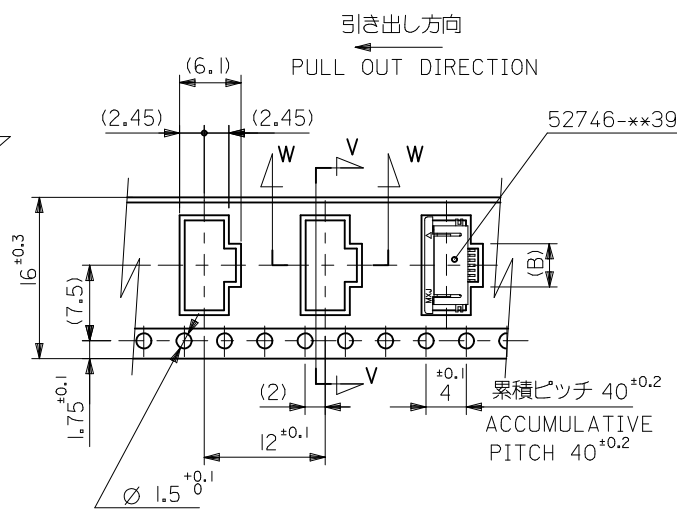
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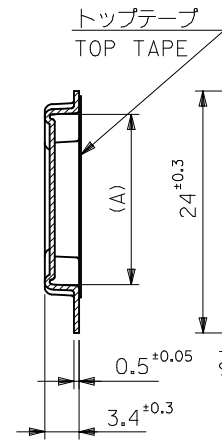
A



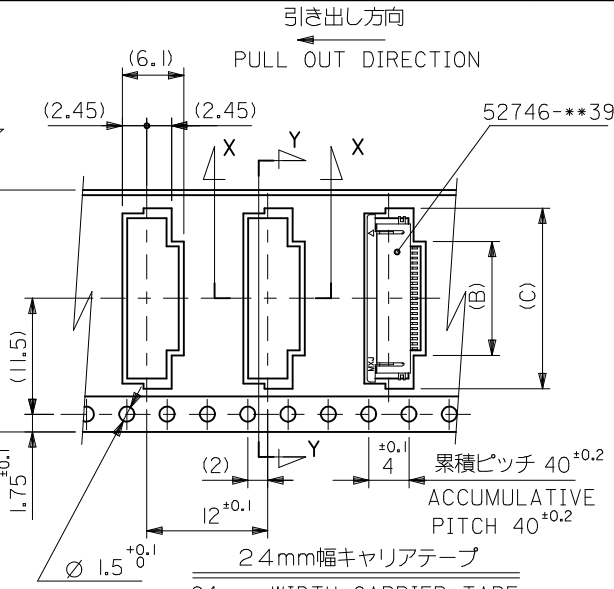
SECT.V-V



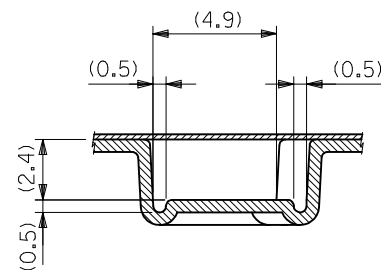
16mm幅キャリアテープ  
16mm WIDTH CARRIER TAPE



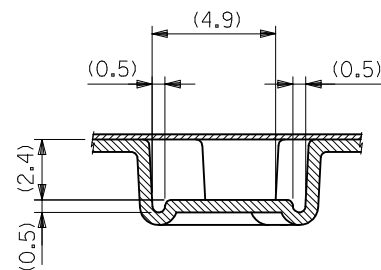
SECT.Y-Y



24mm幅キャリアテープ  
24mm WIDTH CARRIER TAPE



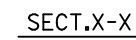
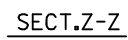
SECT. W-W



SECT.X-X

MODEL No.52746-\*\*\*71

|                                                                                                                      |             |                                                            |       |                            |                                                                                                                                  |                                                                                                |                        |                           |  |  |
|----------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------|-------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------|---------------------------|--|--|
| REVISED<br>EC NO: J2009-2061<br>2009/05/20<br>DRWN:TKN<br>CHKD:HMATSUMOTO<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>HSHIMABUKURO   | DATE<br>'04/01/30                                                                                                                | TITLE<br>0.5 FPC CONN ZIF SMT RA<br>B/CONT EMBSTP PKG<br>-LEAD FREE-<br><br>MOLEX INCORPORATED |                        |                           |  |  |
|                                                                                                                      |             | 10 OVER 30 UNDER                                           | ±0.25 | CHECKED BY<br>KTOJO        | DATE<br>'04/01/30                                                                                                                |                                                                                                |                        |                           |  |  |
|                                                                                                                      |             | 30 OVER                                                    | ±0.3  | APPROVED BY<br>MSASAO      | DATE<br>'04/01/30                                                                                                                |                                                                                                |                        |                           |  |  |
|                                                                                                                      |             | ANGULAR ±3 °                                               |       | MATERIAL NO.<br>SEE TABLE  |                                                                                                                                  | DOCUMENT NO.<br>SD-52746-024                                                                   |                        | SHEET NO.<br>2 OF 3       |  |  |
|                                                                                                                      | 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 |                                                                                                |                        |                           |  |  |



MODEL No.52746-\*\*71

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

F

E

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注記 NOTES

1. 使用材料 MATERIAL

ハウジング HOUSING : 46ナイロン、UL94V-0  
46NYLON

アクチュエータ ACTUATOR : PPS、UL94V-0

ターミナル TERMINAL : リン青銅 (≒0.2)、ニッケル下地 金メッキ  
PHOSPHOR BRONZE, GOLD OVER NICKEL PLATING

金具 FITTING NAIL : リン青銅 (≒0.2)、ニッケル下地 金メッキ  
PHOSPHOR BRONZE, TIN OVER NICKEL PLATING

2. エンボステープ組付け時は、アクチュエータがロックした状態とする。  
IN THE PACKAGE, ACTUATOR OF PART NO.52746-\*\*39 SHOULD BE LOCKED.

△ ソルダーテール半田付け面のズレ量、及び金具半田付け面のズレ量は、基準面 H に対し上下方向 0.1MAX、下方 0.15MAX、とする。  
MISALIGNMENT OF SOLDER TAILS AND FITTING NAILS FROM H  
UPPER DIRECTION: 0.1 MAX., LOWER DIRECTION: 0.15 MAX.

△ 偶数極に適用。  
APPLY FOR EVEN CIRCUIT.

△ パターンはくり止め用金具  
FITTING NAIL FOR PREVENTION OF PEELING  
OF P.C.B. PATTERN.

6. 本製品は 52746-\*\*38の鉛フリー品です。  
THIS PRODUCT IS LEAD FREE OF 52746-\*\*38

|      |      |       |      |                                    |              |                |
|------|------|-------|------|------------------------------------|--------------|----------------|
| 21.1 | 19.3 | 15.65 | 14.5 | 52746-3071                         | 52746-3039   | 30             |
| 20.6 | 18.8 | 15.15 | 14.0 | 52746-2971                         | 52746-2939   | 29             |
| 20.1 | 18.3 | 14.65 | 13.5 | 52746-2871                         | 52746-2839   | 28             |
| 19.6 | 17.8 | 14.15 | 13.0 | 52746-2771                         | 52746-2739   | 27             |
| 19.1 | 17.3 | 13.65 | 12.5 | 52746-2671                         | 52746-2639   | 26             |
| 18.6 | 16.8 | 13.15 | 12.0 | 52746-2571                         | 52746-2539   | 25             |
| 18.1 | 16.3 | 12.65 | 11.5 | 52746-2471                         | 52746-2439   | 24             |
| 17.6 | 15.8 | 12.15 | 11.0 | 52746-2371                         | 52746-2339   | 23             |
| 17.1 | 15.3 | 11.65 | 10.5 | 52746-2271                         | 52746-2239   | 22             |
| 16.6 | 14.8 | 11.15 | 10.0 | 52746-2171                         | 52746-2139   | 21             |
| 16.1 | 14.3 | 10.65 | 9.5  | 52746-2071                         | 52746-2039   | 20             |
| 15.6 | 13.8 | 10.15 | 9.0  | 52746-1971                         | 52746-1939   | 19             |
| 15.1 | 13.3 | 9.65  | 8.5  | 52746-1871                         | 52746-1839   | 18             |
| 14.6 | 12.8 | 9.15  | 8.0  | 52746-1771                         | 52746-1739   | 17             |
| 14.1 | 12.3 | 8.65  | 7.5  | 52746-1671                         | 52746-1639   | 16             |
| 13.6 | 11.8 | 8.15  | 7.0  | 52746-1571                         | 52746-1539   | 15             |
| 13.1 | 11.3 | 7.65  | 6.5  | 52746-1471                         | 52746-1439   | 14             |
| 12.6 | 10.8 | 7.15  | 6.0  | 52746-1371                         | 52746-1339   | 13             |
| 12.1 | 10.3 | 6.65  | 5.5  | 52746-1271                         | 52746-1239   | 12             |
| 11.6 | 9.8  | 6.15  | 5.0  | 52746-1171                         | 52746-1139   | 11             |
| 11.1 | 9.3  | 5.65  | 4.5  | 52746-1071                         | 52746-1039   | 10             |
| 10.6 | 8.8  | 5.15  | 4.0  | 52746-0971                         | 52746-0939   | 9              |
| 10.1 | 8.3  | 4.65  | 3.5  | 52746-0871                         | 52746-0839   | 8              |
| 9.6  | 7.8  | 4.15  | 3.0  | 52746-0771                         | 52746-0739   | 7              |
| 9.1  | 7.3  | 3.65  | 2.5  | 52746-0671                         | 52746-0639   | 6              |
| 8.1  | 6.3  | 2.65  | 1.5  | 52746-0471                         | 52746-0439   | 4              |
| D    | C    | B     | (A)  | EMBOSSSED TAPE<br>ORDER No. オーダー番号 | MATERIAL NO. | 極数<br>CIRCUITS |

52746-\*\*39 MODEL NO.

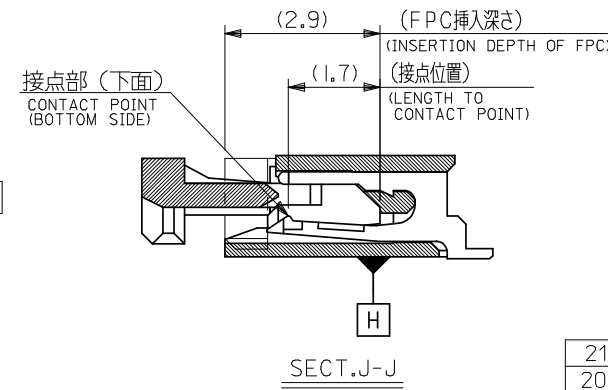
DESIGN UNITS METRIC THIRD ANGLE PROJECTION

0.5 FPC CONN ZIF FOR SMT  
R/A (BOTTOM CONTACT)  
-LEAD FREE-

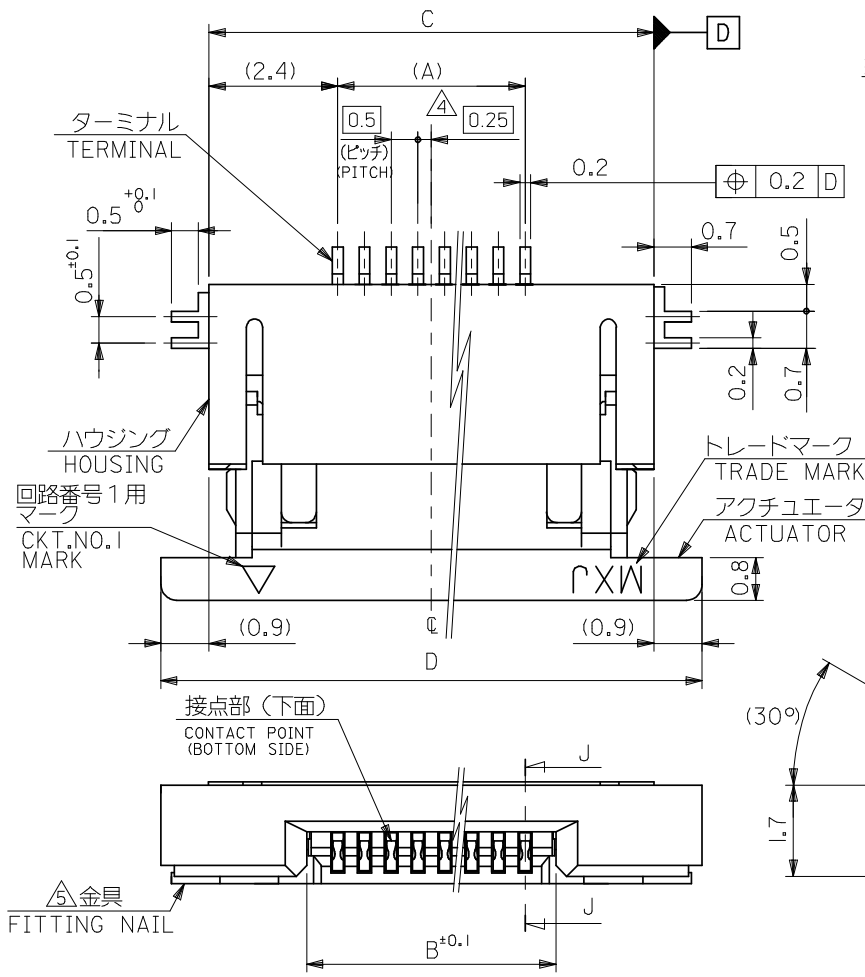
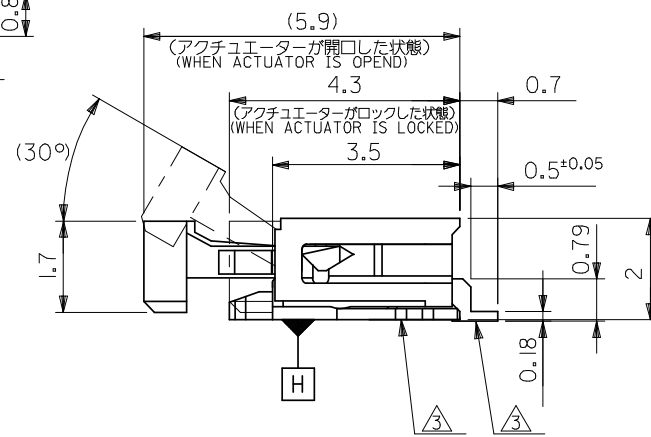
MOLEX INCORPORATED

SD-52746-025 SHEET NO. 1 OF 2

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



SECT. J-J



|         |                   |                                                            |            |            |             |                                          |        |
|---------|-------------------|------------------------------------------------------------|------------|------------|-------------|------------------------------------------|--------|
| REVISED | EC NO: J2008-4308 | 2008/06/27                                                 | 2008/06/30 | 2008/06/30 | DESCRIPTION | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |        |
|         |                   |                                                            |            |            |             | 10 UNDER                                 | ± 0.2  |
|         |                   |                                                            |            |            |             | 10 OVER 30 UNDER                         | ± 0.25 |
|         |                   |                                                            |            |            |             | 30 OVER                                  | ± 0.3  |
|         |                   |                                                            |            |            |             | ANGULAR ±3 °                             |        |
| I       | REV               | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |            |            |             |                                          |        |

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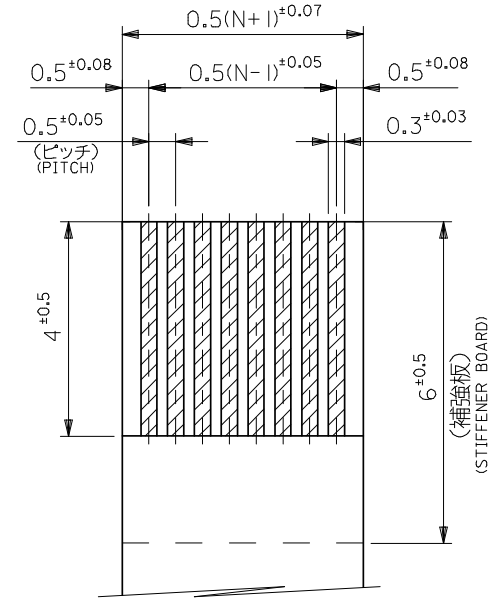
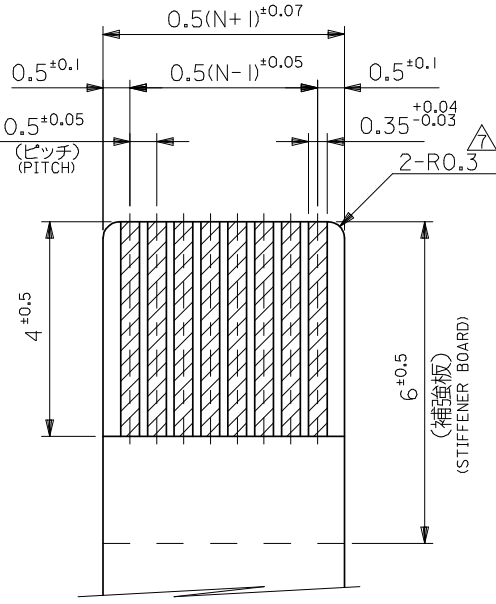
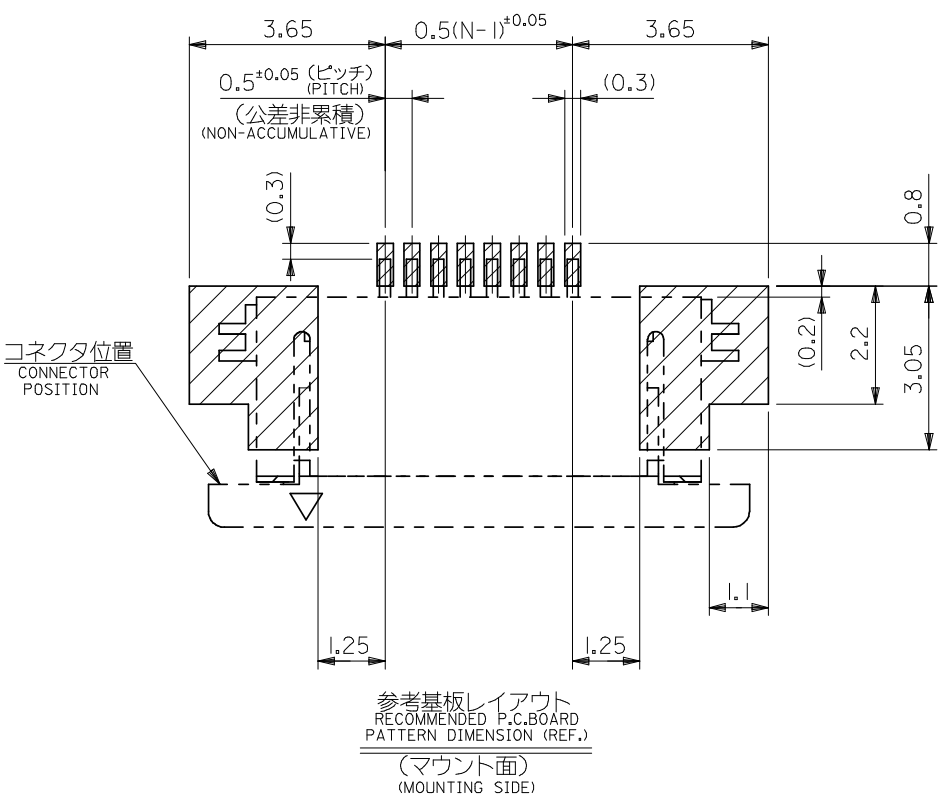
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適合FPC推奨寸法  
APPLICABLE FPC  
RECOMMENDED DIMENSION  
(仕上がり厚さ: 0.3±0.03)  
(THICKNESS: 0.3±0.03)

適合FFC推奨寸法  
APPLICABLE FFC  
RECOMMENDED DIMENSION  
(仕上がり厚さ: 0.3±0.03)  
(THICKNESS: 0.3±0.03)

FPCについて:  
打抜き方向は導体側から補強板を推奨致します。  
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

注記 NOTES

△ R0.3は、FPCの導体側にかからないこと。  
R0.3 MUST NOT BE OVERLAPPED TO PATTERN OF FPC.

|                                                                             |  |                                                                                                                                  |                                          |                          |                            |                                                                          |              |                        |                                                                                       |           |
|-----------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------|----------------------------|--------------------------------------------------------------------------|--------------|------------------------|---------------------------------------------------------------------------------------|-----------|
| REVISED<br>EC NO: J2008-4308<br>DRWN:WABEI<br>CHKD:THARUYAMA<br>APPR:NUKITA |  | DESCRIPTION<br>REV                                                                                                               | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |                          | DIMENSION STYLE<br>MM ONLY |                                                                          | SCALE<br>--- | DESIGN UNITS<br>METRIC |  | MODEL NO. |
|                                                                             |  |                                                                                                                                  | 10 UNDER ±0.2                            | DRAWN BY<br>HSHIMABUKURO | DATE<br>'04/01/30          | TITLE<br>0.5 FPC CONN ZIF FOR SMT<br>R/A (BOTTOM CONTACT)<br>-LEAD FREE- |              |                        |                                                                                       |           |
|                                                                             |  |                                                                                                                                  | 10 OVER 30 UNDER ±0.25                   | CHECKED BY<br>KTOJO      | DATE<br>'04/01/30          |                                                                          |              |                        |                                                                                       |           |
|                                                                             |  |                                                                                                                                  | 30 OVER ±0.3                             | APPROVED BY<br>MSASAO    | DATE<br>'04/01/30          |                                                                          |              |                        |                                                                                       |           |
|                                                                             |  |                                                                                                                                  | ANGULAR ±3 °                             |                          | MATERIAL NO.               |                                                                          | DOCUMENT NO. |                        | SHEET NO.                                                                             |           |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                  |  | SEE TABLE                                                                                                                        |                                          | SD-52746-025             |                            |                                                                          |              | 2 OF 2                 |                                                                                       |           |
| SIZE<br>A3                                                                  |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                          |                          |                            |                                                                          |              |                        |                                                                                       |           |