

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

**Part Number:** [0528521870](#)  
**Status:** **Active**  
**Overview:**  
**Description:** 1.00mm (.039") Pitch FFC/FPC Connector, SMT, Right Angle, Non-ZIF, Bottom Contact Style Receptacle, 18 Circuits, Lead-free

**Agency Certification**

CSA LR19980  
UL E29179

**General**

Product Family FFC/FPC Connectors  
Series 52852  
Overview ffc\_fpc\_smt  
Product Name N/A

**Physical**

Circuits (Loaded) 18  
Circuits (maximum) 18  
Contact Position Bottom  
Durability (mating cycles max) 10  
Entry Angle 90° Angle  
Flammability 94V-0  
Mated Height (in) 0.122 In  
Mated Height (mm) 3.10 mm  
Material - Metal Phosphor Bronze  
Material - Plating Mating Tin-Bismuth  
Material - Plating Termination Tin-Bismuth  
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  
Pitch - Term. Interface (in) 0.039 In  
Pitch - Term. Interface (mm) 1.00 mm  
Plating min: Mating (µin) 40  
Plating min: Mating (µm) 1  
Plating min: Termination (µin) 40  
Plating min: Termination (µm) 1  
Polarized to PCB No  
Stackable No  
Surface Mount Compatible (SMC) Yes  
Temperature Range - Operating -20°C to +80°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**

Packaging Specification SPK-52852-001

**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**  
[52852Series](#)

Product Specification

Sales Drawing

PS-52852-014, RPS-52852-017, RPS-52852-018,  
RPS-52852-019, RPS-52852-022, RPS-52852-023,  
RPS-52852-025  
SD-52852-010, SD-52852-011

This document was generated on 06/05/2010

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10 9 8 7 6 5 4 3 2 1

注記 NOTES:

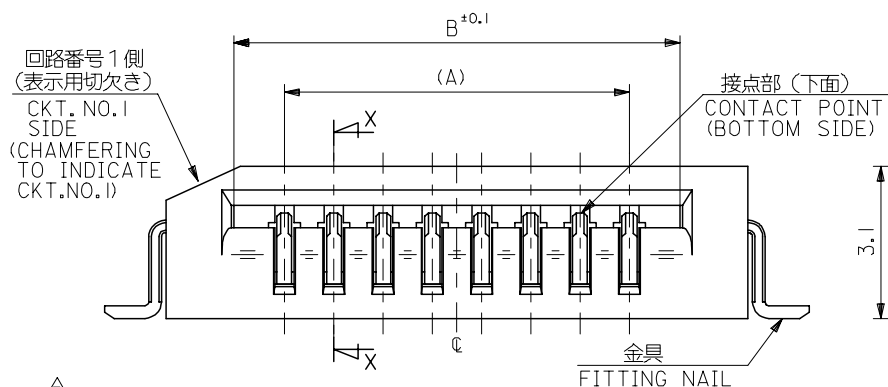
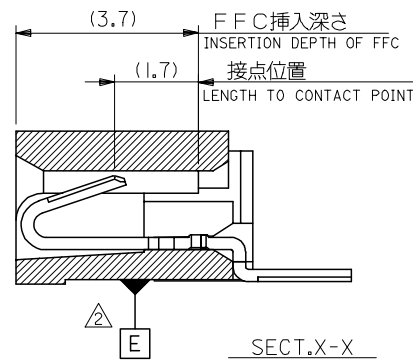
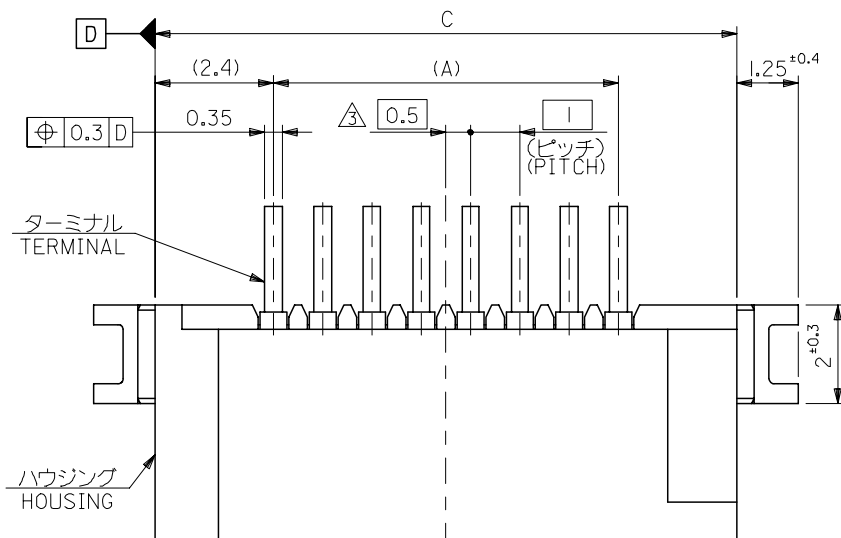
1. 使用材料

MATERIAL

ハウジング: PPS,UL94V-0  
ターミナル: リン青銅 (7=0.25)  
メッキ: ニッケル下地鍍ビスマスメッキ  
金具: リン青銅 (7=0.25)  
メッキ: ニッケル下地鍍メッキ

HOUSING: PPS,UL94V-0  
TERMINAL: PHOSPHOR BRONZE  
PLATING: TIN-BISMUTH OVER NICKEL  
FITTING NAIL: PHOSPHOR BRONZE  
PLATING: TIN OVER NICKEL

基準面 E からソルダータールとフィッティングネイルの半田付け面のズレ量は、  
上方向に0.1MAX、下方向0.15MAXとする。  
MISALIGNMENT OF SOLDER TAIL AND FITTING NAIL FROM E  
: UPPER DIRECTION 0.1 MAX., LOWER DIRECTION 0.15 MAX.



|      |       |    |              |            |
|------|-------|----|--------------|------------|
| 33.8 | 31.05 | 29 | 52852-3019   | 30         |
| 32.8 | 30.05 | 28 | -2919        | 29         |
| 31.8 | 29.05 | 27 | -2819        | 28         |
| 30.8 | 28.05 | 26 | -2719        | 27         |
| 29.8 | 27.05 | 25 | -2619        | 26         |
| 28.8 | 26.05 | 24 | -2519        | 25         |
| 27.8 | 25.05 | 23 | -2419        | 24         |
| 26.8 | 24.05 | 22 | -2319        | 23         |
| 25.8 | 23.05 | 21 | -2219        | 22         |
| 24.8 | 22.05 | 20 | -2119        | 21         |
| 23.8 | 21.05 | 19 | -2019        | 20         |
| 22.8 | 20.05 | 18 | -1919        | 19         |
| 21.8 | 19.05 | 17 | -1819        | 18         |
| 20.8 | 18.05 | 16 | -1719        | 17         |
| 19.8 | 17.05 | 15 | -1619        | 16         |
| 18.8 | 16.05 | 14 | -1519        | 15         |
| 17.8 | 15.05 | 13 | -1419        | 14         |
| 16.8 | 14.05 | 12 | -1319        | 13         |
| 15.8 | 13.05 | 11 | -1219        | 12         |
| 14.8 | 12.05 | 10 | -1119        | 11         |
| 13.8 | 11.05 | 9  | -1019        | 10         |
| 12.8 | 10.05 | 8  | -0919        | 9          |
| 11.8 | 9.05  | 7  | -0819        | 8          |
| 10.8 | 8.05  | 6  | -0719        | 7          |
| 9.8  | 7.05  | 5  | -0619        | 6          |
| 8.8  | 6.05  | 4  | -0519        | 5          |
| 7.8  | 5.05  | 3  | 52852-0419   | 4          |
| C    | B     | A  | MATERIAL NO. | 極数 CIRCUIT |

偶数極に適用。  
APPLY FOR EVEN CKT.

4. 本製品は 52852-\*\*\*10 の鉛フリー品である。  
THIS PRODUCT IS LEAD FREE OF 52852-\*\*\*10

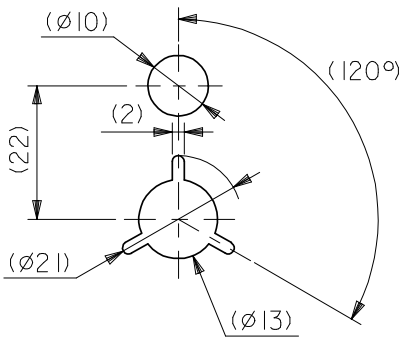
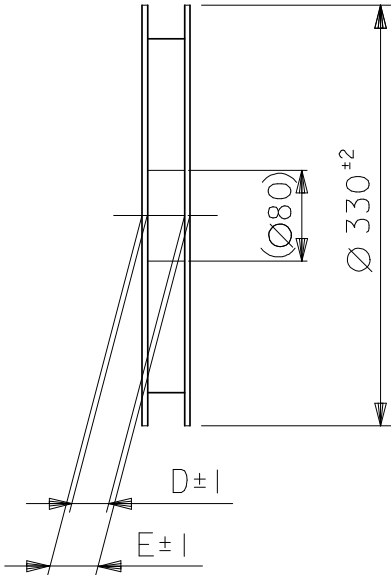
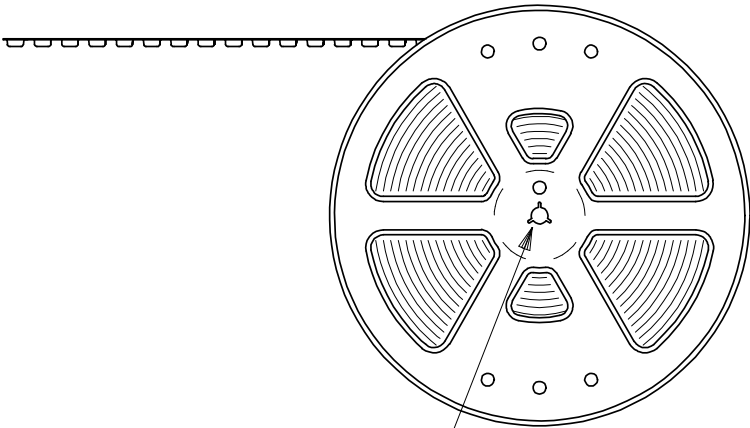
|                                                                                                                   |             |                                                                                                                                  |        |                            |                   |                                                                         |                        |                                                                                                                 |                    |
|-------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------|-------------------|-------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------|
| REVISED<br>EC NO: J2005-1451<br>DRWN:NAIDA<br>CHKD:KTOJO<br>APPR:NUKITA<br>2004/11/16<br>2004/11/17<br>2004/11/26 | 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. NAGATA      | DATE<br>'04/02/27 | TITLE<br>1.0 FFC CONN NON ZIF SMT<br>RA (BOTTOM CONTACT)<br>-LEAD FREE- |                        |                                                                                                                 |                    |
|                                                                                                                   |             | 10 OVER 30 UNDER                                                                                                                 | ± 0.25 | CHECKED BY<br>K. TOJO      | DATE<br>'04/02/27 |                                                                         |                        |                                                                                                                 |                    |
|                                                                                                                   |             | 30 OVER                                                                                                                          | ± 0.3  | APPROVED BY<br>M. SASAO    | DATE<br>'04/02/27 |                                                                         |                        |                                                                                                                 | MOLEX INCORPORATED |
|                                                                                                                   |             | ANGULAR ±3 °                                                                                                                     |        | MATERIAL NO.<br>SEE CAHRT  |                   | DOCUMENT NO.<br>SD-52852-010                                            |                        |                                                                                                                 |                    |
|                                                                                                                   |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                       |        |                            |                   |                                                                         |                        |                                                                                                                 |                    |
|                                                                                                                   | REV<br>A    | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |        |                            |                   |                                                                         |                        |                                                                                                                 |                    |



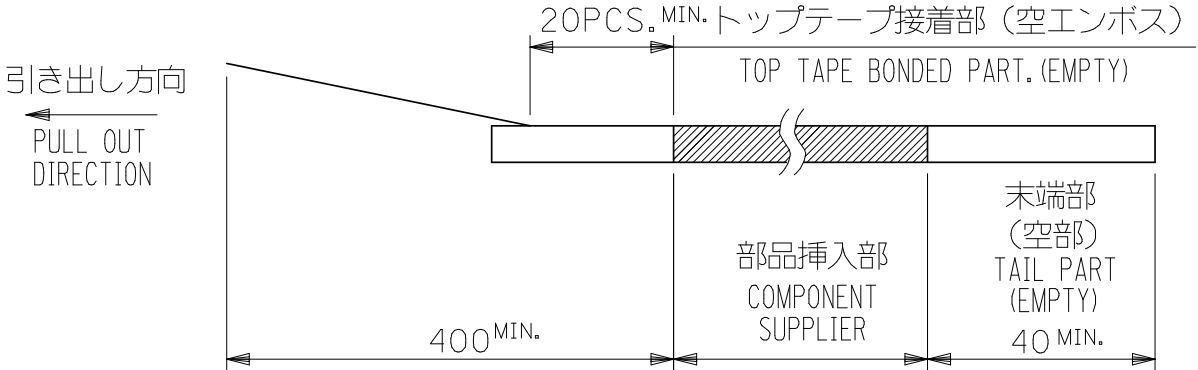
NOTES

1. 製品詳細寸法は製品単体図面を参照して下さい。  
FOR DETAIL OF CONNECTOR DIMENSIONS, PLEASE SEE  
THE DRAWING OF CONNECTOR ITSELF (NOT PACKAGED).
2. 梱包数量：1000個／リール  
NUMBER OF CONNECTORS：1000PCS/REEL
3. リードテープ長さ LEAD TAPE LENGTH

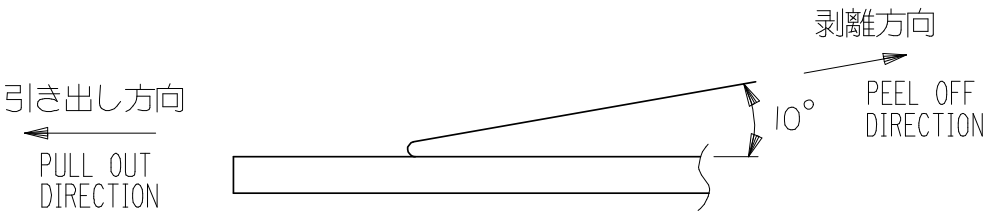
引き出し方向  
PULL OUT DIRECTION



DETAIL "F"



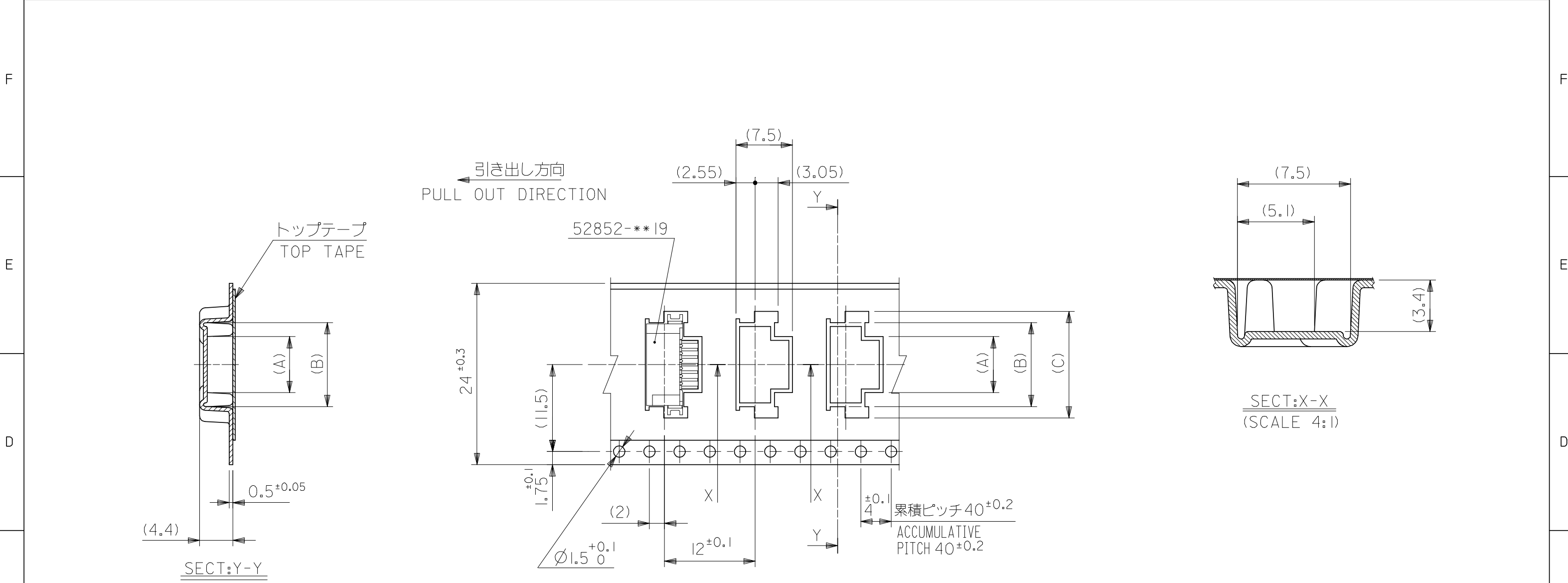
4. トップテープの剥離強度：0.1～1.3N{10 ～ 130gf}  
(剥離方向は下図参照)  
尚、本規格値は出荷時に適用。(但し、輸送時に剥離が発生しないこと。)  
PEELING OFF FORCE OF TOP TAPE：0.1～1.3N{10 ～ 130gf}  
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)  
THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT.  
PEEL OFF SHOULD NOT BE ALLOWED , DURING TRANSPORTATION.



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 (P S) <リサイクル材を含む>  
POLYSTYREN(PS) <RECYCLE MATERIAL CONTAINED>

6. 本製品は 52852-\*\*\*90 の鉛フリー品である。  
THIS PRODUCT IS LEAD FREE OF 52852-\*\*\*90

|                                                                                                                       |  |                                            |                                                                                                                                  |              |                 |             |       |                                                                              |            |                           |  |
|-----------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------|-------------|-------|------------------------------------------------------------------------------|------------|---------------------------|--|
| REVISED<br>EC NO: J2008-1818<br>DRWN:MNABEI 2007/11/12<br>CHKD:MISOGAYA 2007/11/13<br>APPR:NUKITA 2007/11/26<br><br>A |  | DESCRIPTION<br><br><br><br><br><br><br>REV | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                                                                                         |              | DIMENSION STYLE |             | SCALE | DESIGN UNITS                                                                 | MODEL NO.  | THIRD ANGLE<br>PROJECTION |  |
|                                                                                                                       |  |                                            |                                                                                                                                  |              | MM ONLY         |             | ---   | METRIC                                                                       | 52852-**70 |                           |  |
|                                                                                                                       |  |                                            | 10 <sup>UNDER</sup>                                                                                                              |              | ± 0.2           | DRAWN BY    | DATE  | TITLE<br>1.0 FPC CONN NON ZIF SMT<br>RA BOTTOM CONTACT EMBSTP<br>-LEAD FREE- |            |                           |  |
|                                                                                                                       |  |                                            | 10 <sup>OVER</sup> 30 <sup>UNDER</sup>                                                                                           |              | ± 0.25          | CHECKED BY  | DATE  |                                                                              |            |                           |  |
|                                                                                                                       |  |                                            | 30 <sup>OVER</sup>                                                                                                               |              | ± 0.3           | APPROVED BY | DATE  | MOLEX INCORPORATED                                                           |            |                           |  |
|                                                                                                                       |  |                                            | ANGULAR ±3 °                                                                                                                     |              | M. SASAO        | '04/02/27   |       |                                                                              |            |                           |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                            |  | MATERIAL NO.                               |                                                                                                                                  | DOCUMENT NO. |                 |             |       | SHEET NO.                                                                    |            |                           |  |
|                                                                                                                       |  | SEE TABLE                                  |                                                                                                                                  | SD-52852-011 |                 |             |       | 1 OF 5                                                                       |            |                           |  |
|                                                                                                                       |  | SIZE                                       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |              |                 |             |       |                                                                              |            |                           |  |



C

B

|                                |   |   |      |      |      |              |            |
|--------------------------------|---|---|------|------|------|--------------|------------|
| 24mm幅キャリアテープ                   |   |   | 18.1 | 15.1 | 11.4 | 52852-1170   | 11         |
|                                |   |   | 17.1 | 14.1 | 10.4 | 52852-1070   | 10         |
|                                |   |   | 16.1 | 13.1 | 9.4  | 52852-0970   | 9          |
|                                |   |   | 15.1 | 12.1 | 8.4  | 52852-0870   | 8          |
|                                |   |   | 14.1 | 11.1 | 7.4  | 52852-0770   | 7          |
|                                |   |   | 13.1 | 10.1 | 6.4  | 52852-0670   | 6          |
|                                |   |   | 12.1 | 9.1  | 5.4  | 52852-0570   | 5          |
|                                |   |   | 11.1 | 8.1  | 4.4  | 52852-0470   | 4          |
| キャリアテープ幅<br>CARRIER TAPE WIDTH | E | D | (C)  | (B)  | (A)  | MATERIAL NO. | 極数<br>CKT. |

A

REVISED

EC NO: J2008-1818

DRWN: MNABEI

CHKD: M. ISOGAYA

APPR: NUKITA

2007/11/12

2007/11/13

2007/11/26

DESCRIPTION

REV

A

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  
M. NAGATA

CHECKED BY  
K. TOJO

APPROVED BY  
M. SASAO

MATERIAL NO.

SEE TABLE

SIZE  
A 3

DATE  
'04/02/27

DATE  
'04/02/27

DATE  
'04/02/27

SCALE  
---

TITLE  
1.0 FPC CONN NON ZIF SMT  
RA BOTTOM CONTACT EMBSTP  
-LEAD FREE-

MODEL NO.  
52852-\*\*\*70

DESIGN UNITS  
METRIC

THIRD ANGLE  
PROJECTION

DOCUMENT NO.  
SD-52852-011

SHEET NO.  
2 OF 5

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX  
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F

E

D

C

B

A

F

E

D

C

B

A

引き出し方向  
PULL OUT DIRECTION

52852-\*\*-19

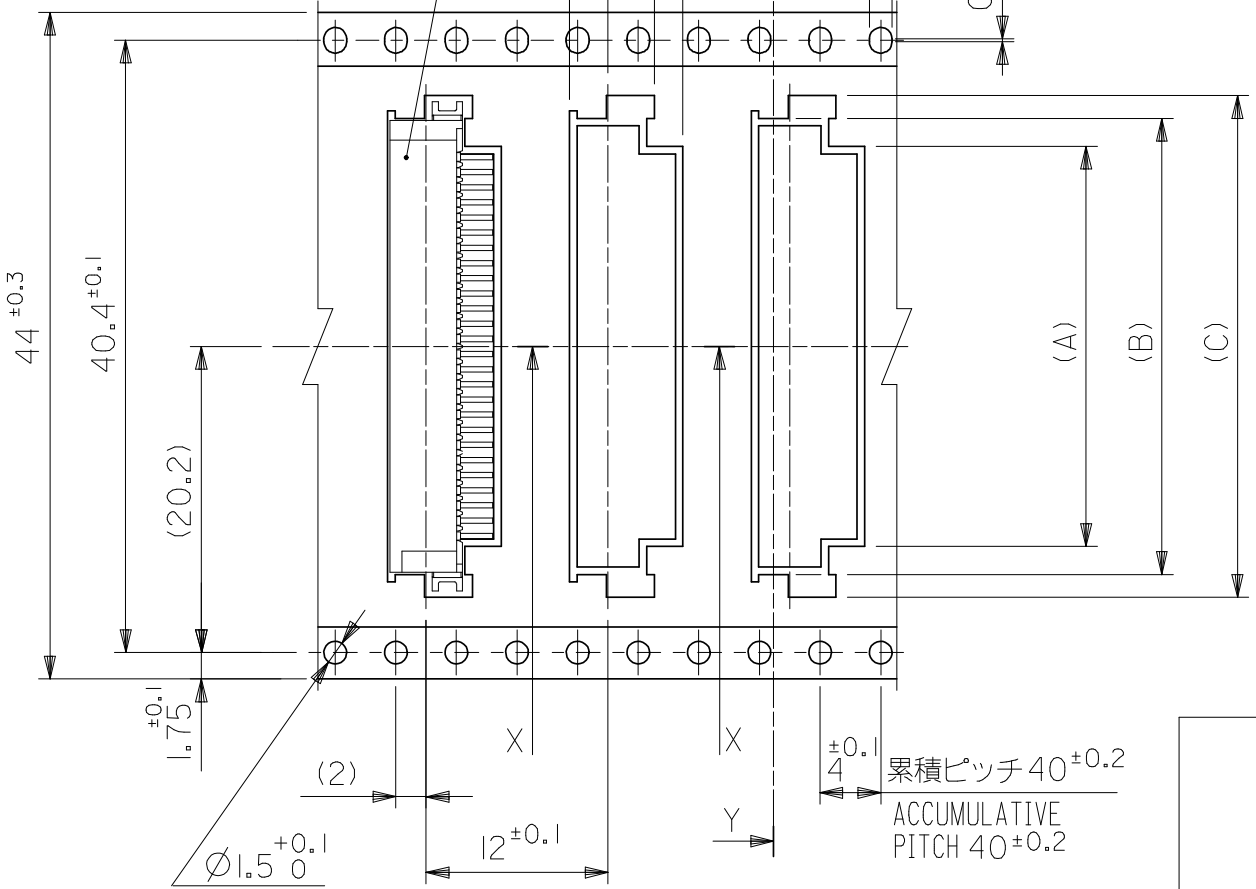
トッブテープ  
TOP TAPE

(7.5)

(5.1)

(3.4)

SECT:X-X  
(SCALE 4:1)



0.5 ±0.05

(4.4)

SECT:Y-Y

累積ピッチ 40 ±0.2  
ACCUMULATIVE PITCH 40 ±0.2

44mm幅キャリアテープ  
44mm WIDTH CARRIER TAPE

|                                |      |      |      |      |      |              |            |
|--------------------------------|------|------|------|------|------|--------------|------------|
| 44                             | 49.5 | 45.5 | 34.1 | 31.1 | 27.4 | 52852-2770   | 27         |
|                                |      |      | 33.1 | 30.1 | 26.4 | 52852-2670   | 26         |
|                                |      |      | 32.1 | 29.1 | 25.4 | 52852-2570   | 25         |
|                                |      |      | 31.1 | 28.1 | 24.4 | 52852-2470   | 24         |
|                                |      |      | 30.1 | 27.1 | 23.4 | 52852-2370   | 23         |
|                                |      |      | 29.1 | 26.1 | 22.4 | 52852-2270   | 22         |
|                                |      |      | 28.1 | 25.1 | 21.4 | 52852-2170   | 21         |
|                                |      |      | 27.1 | 24.1 | 20.4 | 52852-2070   | 20         |
|                                |      |      | 26.1 | 23.1 | 19.4 | 52852-1970   | 19         |
|                                |      |      | 25.1 | 22.1 | 18.4 | 52852-1870   | 18         |
|                                |      |      | 24.1 | 21.1 | 17.4 | 52852-1770   | 17         |
| キャリアテープ幅<br>CARRIER TAPE WIDTH | E    | D    | (C)  | (B)  | (A)  | MATERIAL NO. | 極数<br>CKT. |

REVISED

EC NO: J2008-1818

DRWN: MNABEL

CHKD: M. ISOGAYA

APPR: NUKITA

2007/11/12

2007/11/13

2007/11/26

DESCRIPTION

REV

A

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 M. NAGATA

CHECKED BY K. TOJO

APPROVED BY M. SASAO

MATERIAL NO.

SEE TABLE

SIZE A 3

SCALE ---

TITLE

1.0 FPC CONN NON ZIF SMT  
RA BOTTOM CONTACT EMBSTP  
-LEAD FREE-

MOLEX INCORPORATED

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MODEL NO. 52852-\*\*-70

DESIGN UNITS METRIC

THIRD ANGLE PROJECTION

DOCUMENT NO. SD-52852-011

SHEET NO. 4 OF 5



F

E

D

C

B

A

F

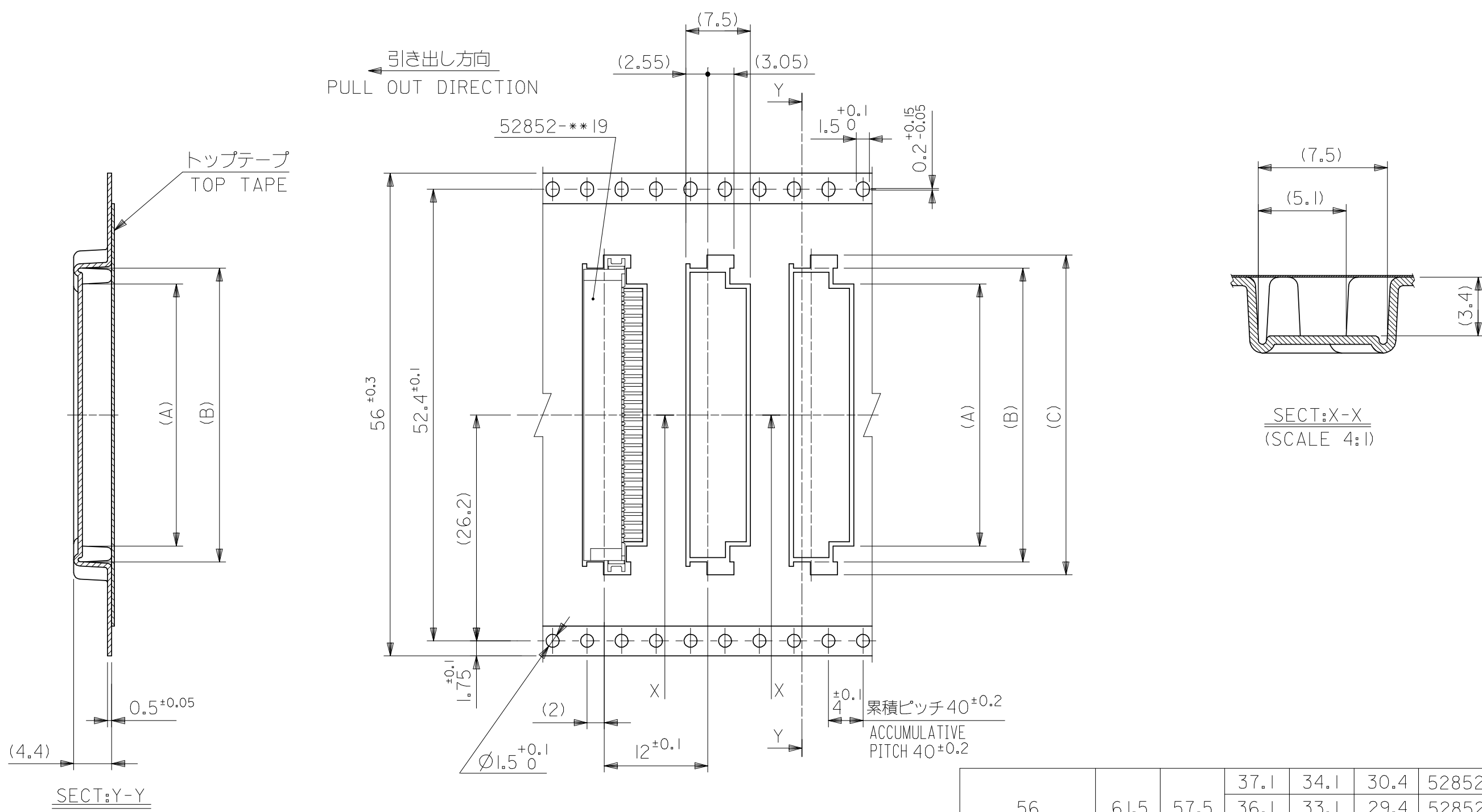
E

D

C

B

A



|                                |      |      |      |      |      |              |            |
|--------------------------------|------|------|------|------|------|--------------|------------|
| 56                             | 61.5 | 57.5 | 37.1 | 34.1 | 30.4 | 52852-3070   | 30         |
|                                |      |      | 36.1 | 33.1 | 29.4 | 52852-2970   | 29         |
|                                |      |      | 35.1 | 32.1 | 28.4 | 52852-2870   | 28         |
| キャリアテープ幅<br>CARRIER TAPE WIDTH | E    | D    | (C)  | (B)  | (A)  | MATERIAL NO. | 極数<br>CKT. |

|                                                                                |                    |                                          |  |                                                            |                           |                   |                                                                             |                                                                                                                                  |  |  |                   |
|--------------------------------------------------------------------------------|--------------------|------------------------------------------|--|------------------------------------------------------------|---------------------------|-------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--|--|-------------------|
| REVISED<br>EC NO: J2008-1818<br>DRWN: MNABEL<br>CHKD: MISOGAYA<br>APPR: NUKITA | DESCRIPTION<br>REV | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |  | DIMENSION STYLE<br>MM ONLY                                 |                           | SCALE<br>---      | DESIGN UNITS<br>METRIC                                                      | THIRD ANGLE<br>PROJECTION                                                                                                        |  |  |                   |
|                                                                                |                    |                                          |  | DRAWN BY<br>M. NAGATA                                      |                           | DATE<br>'04/02/27 | TITLE<br>1.0 FPC CONN. N-ZIF R/A<br>RA BOTTOM CONTACT EMBSTP<br>-LEAD FREE- |                                                                                                                                  |  |  |                   |
|                                                                                |                    | 10 <sup>UNDER</sup>                      |  | ± 0.2                                                      | CHECKED BY<br>K. TOJO     |                   |                                                                             |                                                                                                                                  |  |  | DATE<br>'04/02/27 |
|                                                                                |                    | 10 <sup>OVER</sup> 30 <sup>UNDER</sup>   |  | ± 0.25                                                     | APPROVED BY<br>M. SASAO   |                   | DATE<br>'04/02/27                                                           | molex MOLEX INCORPORATED                                                                                                         |  |  |                   |
|                                                                                |                    | 30 <sup>OVER</sup>                       |  | ± 0.3                                                      | MATERIAL NO.<br>SEE TABLE |                   | DOCUMENT NO.<br>SD-52852-011                                                |                                                                                                                                  |  |  |                   |
|                                                                                |                    | ANGULAR ±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 |  |  |                   |



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

Наши преимущества:

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

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

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



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

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