

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0528081370

Status:

Active

Overview:

Description:

1.00mm (.039") Pitch FFC/FPC Connector, SMT, Vertical, Non-ZIF Receptacle, 13 Circuits, Lead-free

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

52808Series

Agency Certification

UL

E29179

General

Product Family

FFC/FPC Connectors

Series

52808

Overview

ffc\_fpc\_smt

Product Name

N/A

Physical

Circuits (Loaded)

13

Circuits (maximum)

13

Color - Resin

Natural

Contact Position

N/A

Durability (mating cycles max)

10

Entry Angle

N/A

Flammability

94V-0

Mated Height (in)

0.199 In

Mated Height (mm)

5.05 mm

Material - Metal

Phosphor Bronze

Material - Plating Mating

Tin-Bismuth

Material - Plating Termination

Tin-Bismuth

Material - Resin

High Temperature Thermoplastic

Number of Rows

1

Orientation

Vertical

PCB Locator

No

PCB Retention

None

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

125V AC (RMS)/DC

Material Info

Reference - Drawing Numbers

Packaging Specification

SPK-52808-001

Product Specification

PS-52808-004, RPS-52808-039, RPS-52808-044,  
RPS-52808-045, RPS-52808-047, RPS-52808-048,  
RPS-52808-049  
SD-52808-027, SD-52808-028

Sales Drawing

This document was generated on 06/05/2010

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

F

E

D

C

B

A

F

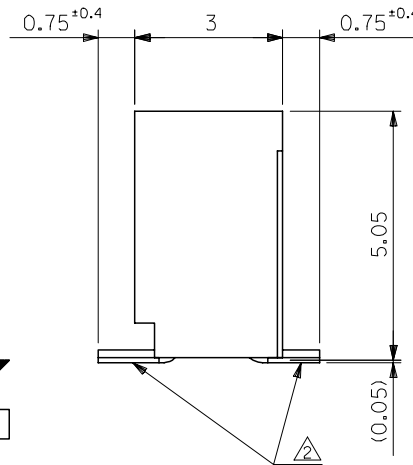
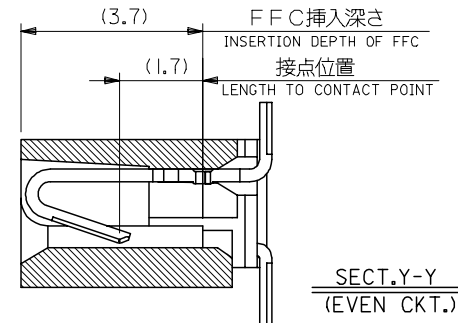
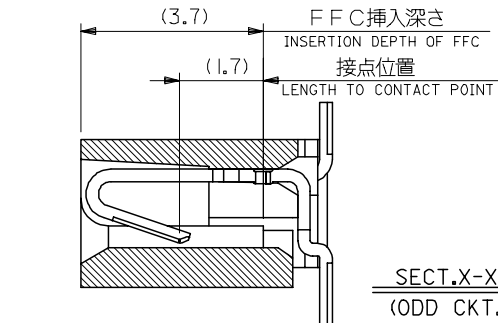
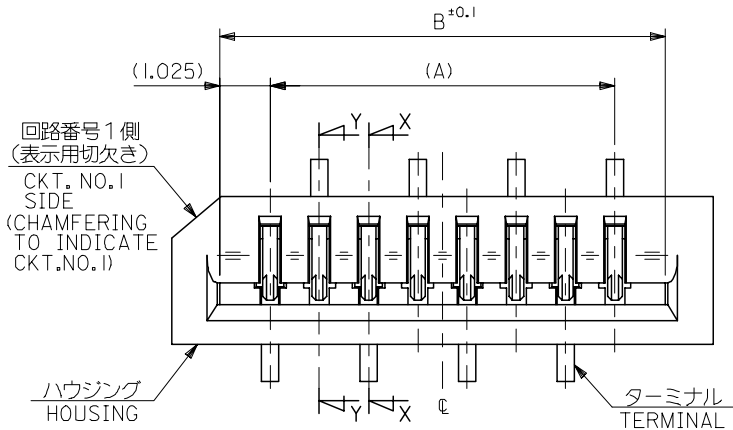
E

D

C

B

A



|    |       |    |            |    |
|----|-------|----|------------|----|
| 33 | 31.05 | 29 | 52808-3019 | 30 |
| 32 | 30.05 | 28 | -2919      | 29 |
| 31 | 29.05 | 27 | -2819      | 28 |
| 30 | 28.05 | 26 | -2719      | 27 |
| 29 | 27.05 | 25 | -2619      | 26 |
| 28 | 26.05 | 24 | -2519      | 25 |
| 27 | 25.05 | 23 | -2419      | 24 |
| 26 | 24.05 | 22 | -2319      | 23 |
| 25 | 23.05 | 21 | -2219      | 22 |
| 24 | 22.05 | 20 | -2119      | 21 |
| 23 | 21.05 | 19 | -2019      | 20 |
| 22 | 20.05 | 18 | -1919      | 19 |
| 21 | 19.05 | 17 | -1819      | 18 |
| 20 | 18.05 | 16 | -1719      | 17 |
| 19 | 17.05 | 15 | -1619      | 16 |
| 18 | 16.05 | 14 | -1519      | 15 |
| 17 | 15.05 | 13 | -1419      | 14 |
| 16 | 14.05 | 12 | -1319      | 13 |
| 15 | 13.05 | 11 | -1219      | 12 |
| 14 | 12.05 | 10 | -1119      | 11 |
| 13 | 11.05 | 9  | -1019      | 10 |
| 12 | 10.05 | 8  | -0919      | 9  |
| 11 | 9.05  | 7  | -0819      | 8  |
| 10 | 8.05  | 6  | -0719      | 7  |
| 9  | 7.05  | 5  | -0619      | 6  |
| 8  | 6.05  | 4  | -0519      | 5  |
| 7  | 5.05  | 3  | 52808-0419 | 4  |

注記 NOTES:

1. 使用材料 MATERIAL

ハウジング: PPS, UL94V-0

HOUSING: PPS, UL94V-0

ターミナル: リン青銅 ( $t=0.25$ )

TERMINAL: PHOSPHOR BRONZE

メッキ: ニッケル下地鍍ビスマスメッキ

PLATING: TIN-BISMUTH OVER NICKEL

△基準面 [E] からのソルダーテー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 FROM [E]: UPPER DIRECTION 0.1 MAX., LOWER DIRECTION 0.15 MAX.

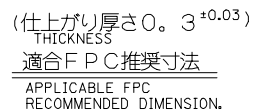
△偶数極に適用。

APPLY FOR EVEN CKT.

4. 本製品は52808-\*\*-10の鉛フリー品である。

THIS PRODUCT IS LEAD FREE OF 52808-\*\*-10

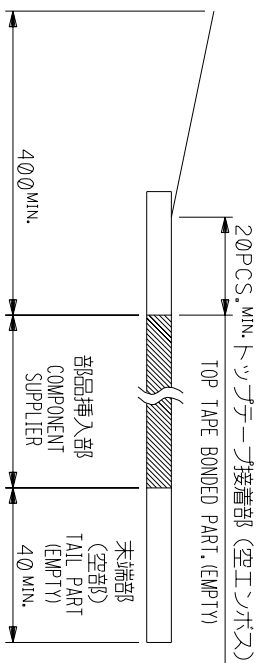
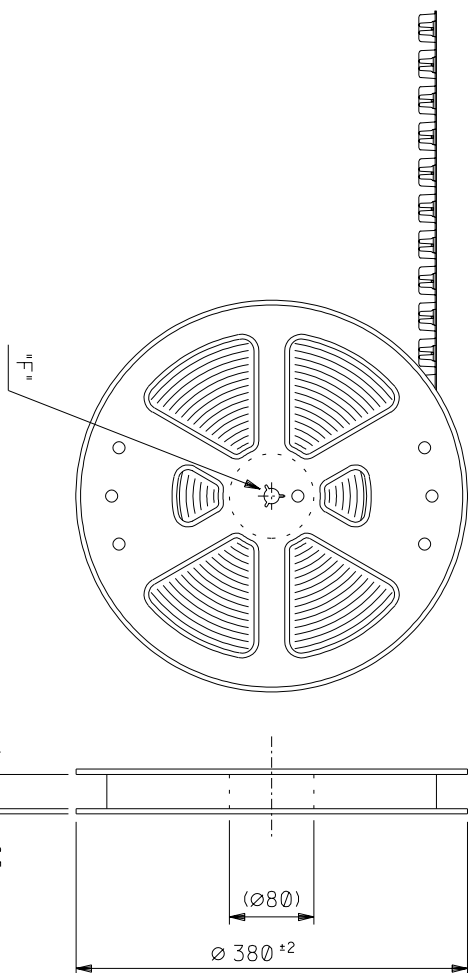
|                                                                             |                                                       |                                                                                                                                  |       |                            |                   |                                                           |                        |                                                                                                                 |  |
|-----------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------|-------------------|-----------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|--|
| REVISED<br>EC NO: J2006-1497<br>DRWN: NABE1<br>CHKD: TOYODA<br>APPR: NUKITA | DESCRIPTION<br>2005/11/04<br>2005/11/07<br>2005/11/11 | 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. NABE1       | DATE<br>'04/02/19 | TITLE<br>1.0 FFC CONN. NON ZIF<br>SMT. ST.<br>-LEAD FREE- |                        |                                                                                                                 |  |
|                                                                             |                                                       | 10 OVER 30 UNDER                                                                                                                 | ±0.25 | CHECKED BY<br>M. SASAO     | DATE<br>'04/02/19 |                                                           |                        |                                                                                                                 |  |
|                                                                             |                                                       | 30 OVER                                                                                                                          | ±0.3  | APPROVED BY<br>M. SASAO    | DATE<br>'04/02/19 | MOLEX MOLEX INCORPORATED                                  |                        |                                                                                                                 |  |
|                                                                             |                                                       | ANGULAR ±3 °                                                                                                                     |       | MATERIAL NO.               |                   | DOCUMENT NO.                                              |                        | SHEET NO.                                                                                                       |  |
|                                                                             |                                                       | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                       |       | SEE CHART                  |                   | SD-52808-027                                              |                        | 1 OF 1                                                                                                          |  |
| A                                                                           | REV                                                   | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |       |                            |                   |                                                           |                        |                                                                                                                 |  |



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

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

tb\_frame\_A3\_J\_ME\_S  
Rev. D 2004/04/02



NOTES

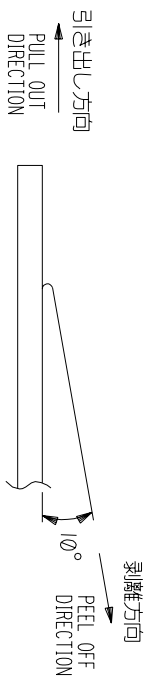
1. 製品詳細方法については図面 SD-52808-027 を参照下さい。  
RE DETAILED DIMENSION, SEE SD-52808-027
2. 梱包数量: 10000個/リール  
NUMBER OF CONNECTORS : 1000PCS/REEL
3. リーダーテープ長さ LEAD TAPE LENGTH

4. トリプターズの剥離強度: 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)

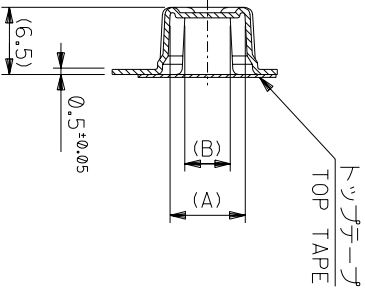
トッパテープ(TOPTAPE): PET, PE, PEF

ポリスチレン (PS) <リサイクル材を含む>  
POLYSTYRENIPS <RECYCLE MATERIAL CONTAINED>

6. 本製品は52808-\*\*90の鉛フリー品である。  
THIS PRODUCT IS LEAD FREE OF 52808-\*\*90

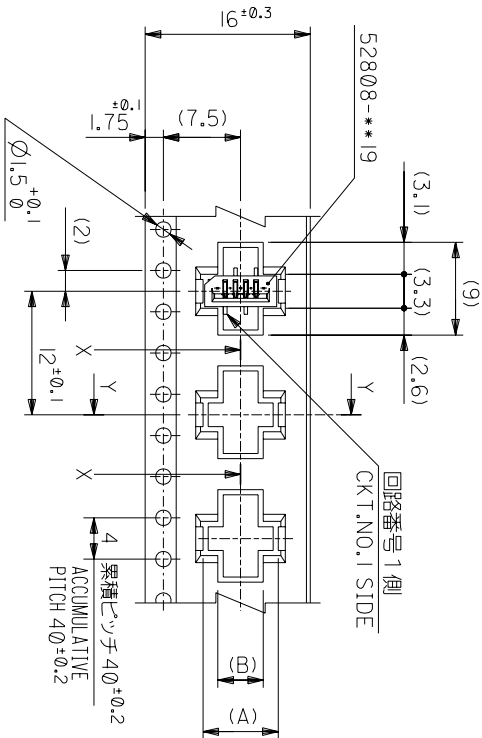
|                                                                      |  |
|----------------------------------------------------------------------|--|
| 52808-***70                                                          |  |
| MODEL NO.                                                            |  |
| MOLEX-JAPAN CO.,LTD.<br>(MOLEX) 日本モリス株式会社                            |  |
| REVISE ONLY ON CAD SYSTEM                                            |  |
| TITLE 名称<br>I.0 FFC Conn NON ZIF<br>SMT ST Embstd Pkg<br>-LEAD FREE- |  |
| DWG. NO. (SHEET 1 OF 6) REV.<br>SD-52808-028 0                       |  |

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 本図面は日本モリックス（株）の所有する情報を含むもので、当社の許可なく複製を禁止する。  
 EN-0(C)032MXJ-32

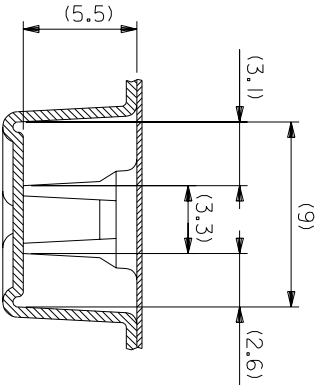


SECTION-Y-Y

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



引き出し方向  
PULL OUT DIRECTION



SECTION-X-X  
(SCALE:4-1)

|             |                    |    |      |     |              |            |   |
|-------------|--------------------|----|------|-----|--------------|------------|---|
| 52808-**-70 | MODEL NO.          | 16 | 17.5 | 5.4 | 8.3          | 52808-0570 | 5 |
|             | CARRIER TAPE WIDTH | C  | (B)  | (A) | MATERIAL NO. | 極数         | 4 |

材料  
MATERIAL SHEET 1 OF 6 参照  
REFER TO SHEET 1 OF 6

仕上げ  
FINISH

適用電線範囲  
WIRE RANGE

積層外径  
INS. RANGE

DRAWN BY 04/02/19 CHK'D BY 04/02/19

APP'D BY 04/02/19 M.SASAO

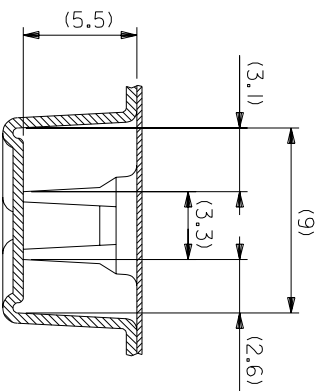
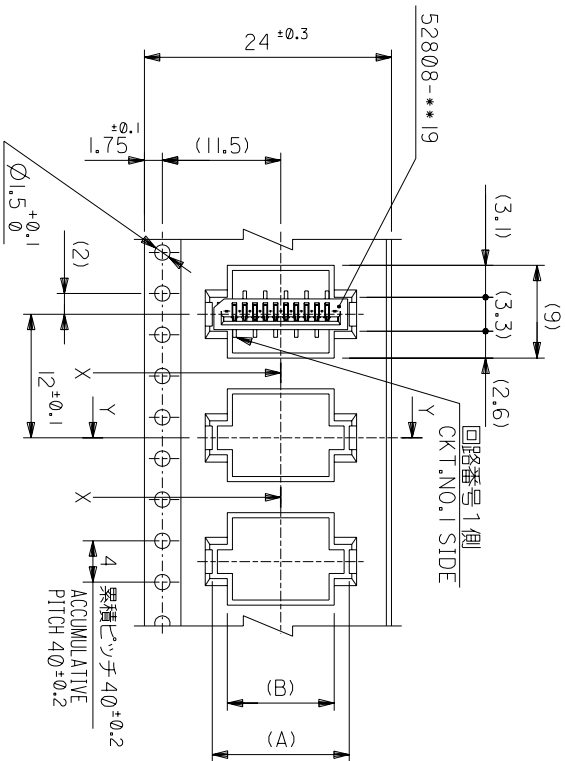
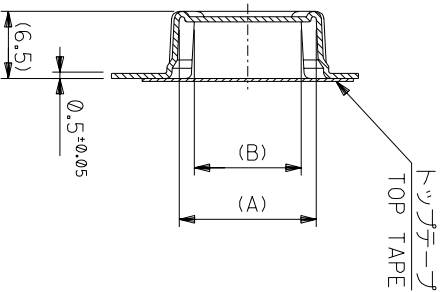
尺度  
SCALE

DWG. NO. SD-52808-028

REV (SHEET 2 OF 6) REV

|       |           |       |
|-------|-----------|-------|
| 角度    | ANGLE     | ±3°   |
| 30°以上 | 30° OR GT | ±0.2  |
| 10°以上 | 10° OR GT | ±0.25 |
| 10°以下 | 10° UNDER | ±0.2  |

|                    |     |                  |         |      |
|--------------------|-----|------------------|---------|------|
| 記号                 | 0   | 新規作成 (2004-2528) | 変更内容    | 0    |
| GENERAL TOLERANCES | LTR | REVISION RECORD  | DR-CHK. | DATE |

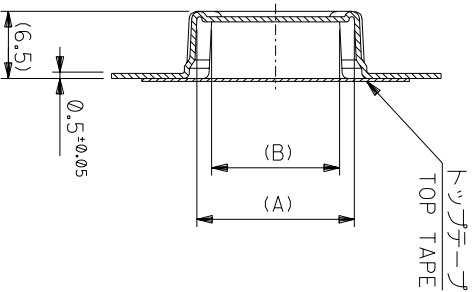


SECT:X-X  
(SCALE:4-1)

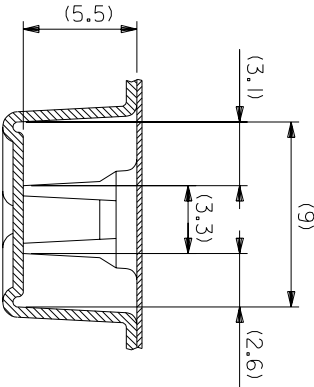
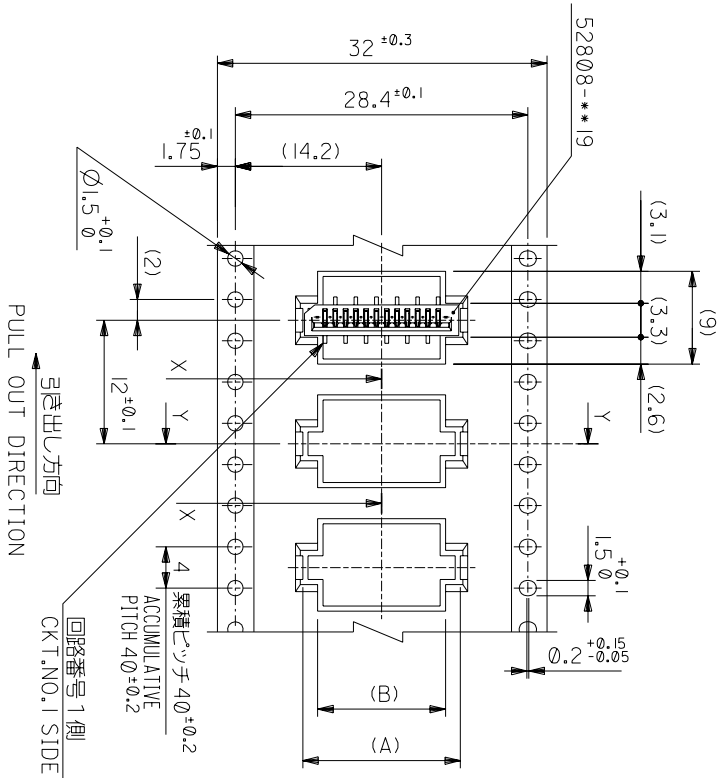
SECT:Y-Y

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

|                    |  |                                |  |                                          |  |                  |      |                                         |    |
|--------------------|--|--------------------------------|--|------------------------------------------|--|------------------|------|-----------------------------------------|----|
| 52808-**-70        |  | 24                             |  | 25.5                                     |  | 10.4             | 13.3 | 52808-1070                              | 10 |
|                    |  |                                |  |                                          |  | 9.4              | 12.3 | 52808-0970                              | 9  |
|                    |  |                                |  |                                          |  | 8.4              | 11.3 | 52808-0870                              | 8  |
|                    |  |                                |  |                                          |  | 7.4              | 10.3 | 52808-0770                              | 7  |
|                    |  |                                |  |                                          |  | 6.4              | 9.3  | 52808-0670                              | 6  |
| MODEL NO.          |  | キャリアテープ幅<br>CARRIER TAPE WIDTH |  | C                                        |  | (B)              |      | (A)                                     |    |
|                    |  | 材料<br>MATERIAL                 |  | SHEET 1 OF 6 参照<br>REFER TO SHEET 1 OF 6 |  |                  |      | MOLEX-JAPAN CO.,LTD.<br>molex 日本モリス株式会社 |    |
|                    |  | 仕上げ<br>FINISH                  |  | —#—                                      |  |                  |      | REVISE ONLY ON CAD SYSTEM               |    |
|                    |  | 適用電線範囲<br>WIRE RANGE           |  | —#—                                      |  |                  |      | TITLE 名称                                |    |
|                    |  | 被覆外径<br>INS. RANGE             |  | —#—                                      |  |                  |      | I.O FFC Conn NON ZIF                    |    |
|                    |  | DRAWN BY 04/02/9               |  | CHK'D BY 04/02/9                         |  |                  |      | SMT ST Emb+D Pkg                        |    |
|                    |  | M.NABEI                        |  | M.SASAO                                  |  |                  |      | -LEAD FREE-                             |    |
|                    |  | M.SASAO                        |  | SCALE —#—                                |  |                  |      | DWG. NO. (SHEET 3 OF 6)                 |    |
|                    |  | M.SASAO                        |  |                                          |  |                  |      | SD-52808-028                            |    |
|                    |  |                                |  |                                          |  |                  |      | REV                                     |    |
|                    |  |                                |  |                                          |  |                  |      | 0                                       |    |
| 角 度 ANGLE          |  | 30°                            |  |                                          |  |                  |      |                                         |    |
| 30°以上              |  | ±0.2                           |  |                                          |  |                  |      |                                         |    |
| 10°以上 30° UNDER    |  | ±0.25                          |  |                                          |  |                  |      |                                         |    |
| 10° UNDER          |  | ±0.2                           |  |                                          |  |                  |      |                                         |    |
| 10° UNDER          |  | ±0.2                           |  |                                          |  |                  |      |                                         |    |
| 一般公差               |  | 新規格作成 (J2004-2528)             |  | M.N                                      |  | 04/02/9          |      |                                         |    |
| GENERAL TOLERANCES |  | 変更内容<br>REVISION RECORD        |  | DR. CHK.                                 |  | 日付<br>DATE       |      |                                         |    |
|                    |  | 記号<br>LTR                      |  |                                          |  | APP'D BY 04/02/9 |      |                                         |    |
|                    |  |                                |  |                                          |  | M.SASAO          |      |                                         |    |



SECT:Y-Y



SECT:X-X  
(SCALE:4-1)

32mm幅キャリアテープ  
32mm WIDTH CARRIER TAPE

| 角度    | ANGLE |
|-------|-------|
| 30°以上 | 30°   |
| 10°以下 | 10°   |
| 未指定   | 未指定   |
| 10°以下 | 10°   |
| 未指定   | 未指定   |

| 記号 | 変更内容              | DR-CHK. | DATE      |
|----|-------------------|---------|-----------|
| 0  | 新規作成 (12004-2528) | M.N.    | M/W/02/19 |
| 0  | リリース              | M.S.    | M/S/02/19 |
| 0  | 変更内容              | DR-CHK. | DATE      |

| MODEL NO.   | キャリアテープ幅<br>CARRIER TAPE WIDTH | C    | (B)  | (A)  | MATERIAL NO. | 種数<br>CKT. |
|-------------|--------------------------------|------|------|------|--------------|------------|
| 52808-**-70 | 32                             | 33.5 | 15.4 | 18.3 | 52808-1570   | 15         |
|             |                                |      | 14.4 | 17.3 | 52808-1470   | 14         |
|             |                                |      | 13.4 | 16.3 | 52808-1370   | 13         |
|             |                                |      | 12.4 | 15.3 | 52808-1270   | 12         |
|             |                                |      | 11.4 | 14.3 | 52808-1170   | 11         |

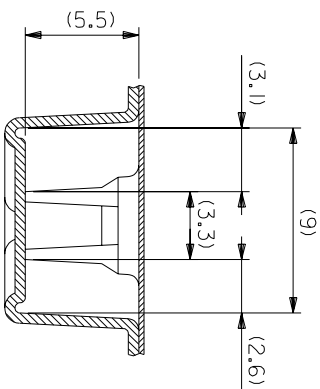
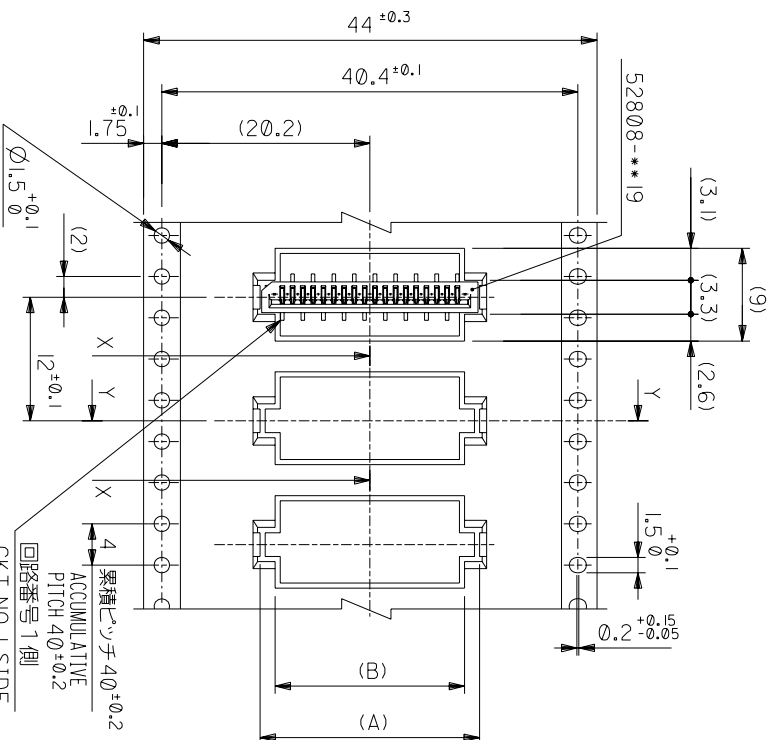
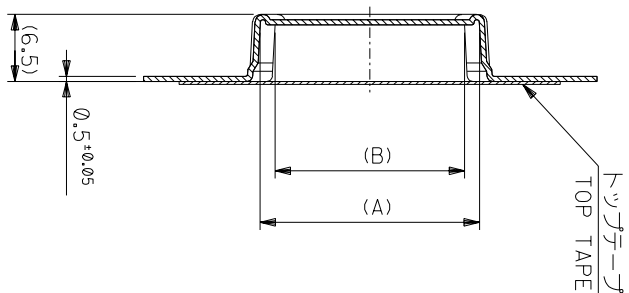
材料 MATERIAL SHEET 1 OF 6 参照  
REFER TO SHEET 1 OF 6

仕上げ FINISH  
適用電線範囲 WIRE RANGE  
INS. RANGE

DRAWN BY M/W/02/19 CHK'D BY M/W/02/19  
M.NABEI M.SASAO

尺度 SCALE  
M.SASAO

DWG. NO. SD-52808-028 (SHEET 4 OF 6) REV 0



SECT:X-X  
(SCALE:4-1)

SECT:Y-Y

引き出し方向  
PULL OUT DIRECTION

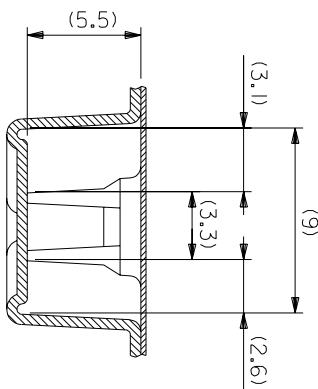
回路番号1側  
CKT.NO.1 SIDE

44mm幅キヤリテージ

[illegible]

|                                                                                                                                                   |  |                                                                                                                                               |  |                                                                     |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------|--|
| <div> <div>  MOLEX-JAPAN CO.,LTD.<br/> モレックス株式会社 </div> </div> |  | <div> <div> REVISION ONLY ON CAD SYSTEM </div> </div>                                                                                         |  | <div> <div> TITLE 名称 </div> </div>                                  |  |
| <div> <div> 材料 MATERIAL<br/> SHEET 1 OF 6 参照<br/> REFER TO SHEET 1 OF 6 </div> </div>                                                             |  | <div> <div> 仕上げ FINISH<br/> 適用電線範囲 WIRE RANGE<br/> 被覆外径 INS. RANGE<br/> DRAWN BY 04/02/19 M.NBEL<br/> CHK'D BY 04/02/19 M.SASAO </div> </div> |  | <div> <div> DWG. NO. (SHEET 5 OF 6)<br/> SD-52808-028 </div> </div> |  |
| <div> <div> 角度 ANGLE<br/> 30 以上 未満 0.3°<br/> 10 以上 30 UNDER 0.25<br/> 10 未満 0.2 </div> </div>                                                     |  | <div> <div> 更新作成 (42004-2528)<br/> (1/25) </div> </div>                                                                                       |  | <div> <div> REV. NO. (SHEET 5 OF 6)<br/> SD-52808-028 </div> </div> |  |
| <div> <div> 一般公差 GENERAL TOLERANCES<br/> 記号 LTR 変更内容 REVISION RECORD<br/> DR. CHK. DATE </div> </div>                                             |  | <div> <div> APPRO'D BY 04/02/19 尺度 SCALE<br/> M.SASAO </div> </div>                                                                           |  | <div> <div> REV. NO. (SHEET 5 OF 6)<br/> SD-52808-028 </div> </div> |  |

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 本図面は日本モレックス（株）の所有する情報を含むもので当社の許可なく複製を禁止する。  
 EN-01C032MXJ



SECT:Y-Y

56mm幅キヤリアテープ

56mm WIDTH CARRIER TAPE

引き出し方向  
PULL OUT DIRECTION

4 累積ピッチ 40 $\pm$ 0.2  
ACCUMLATIVE  
PITCH 40 $\pm$ 0.2  
回路番号 1 側  
CKT.NO.1 SIDE

資料 MATERIAL SHEET 1 of 6 参照  
 REFER TO SHEET 1 of 6  
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