

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0528081670

Status:

Active

Overview:

Description:

1.00mm (.039") Pitch FFC/FPC Connector, SMT, Vertical, Non-ZIF Receptacle, 16 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

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)

16

Circuits (maximum)

16

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 FOR LATEST PART INFORMATION

F

E

D

C

B

A

F

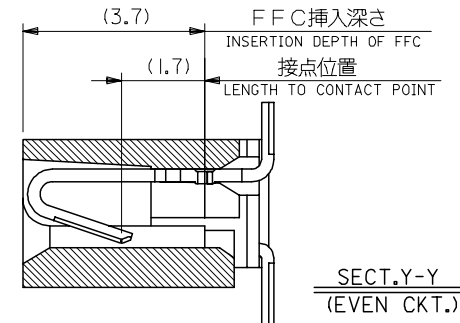
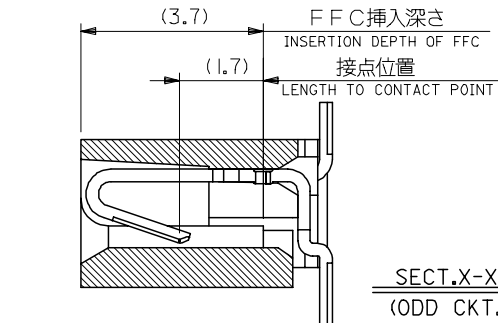
E

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.

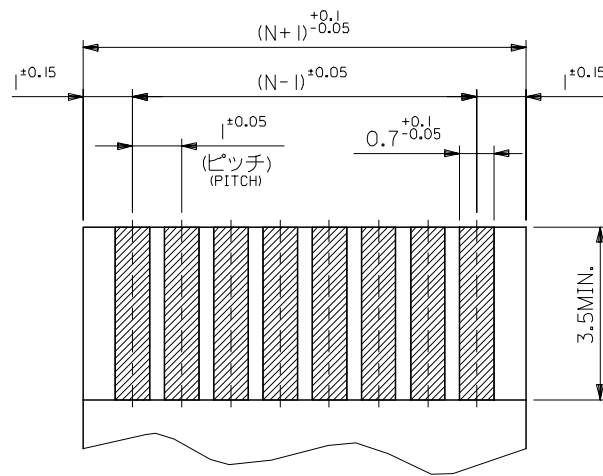
△偶数極に適用。

APPLY FOR EVEN CKT.

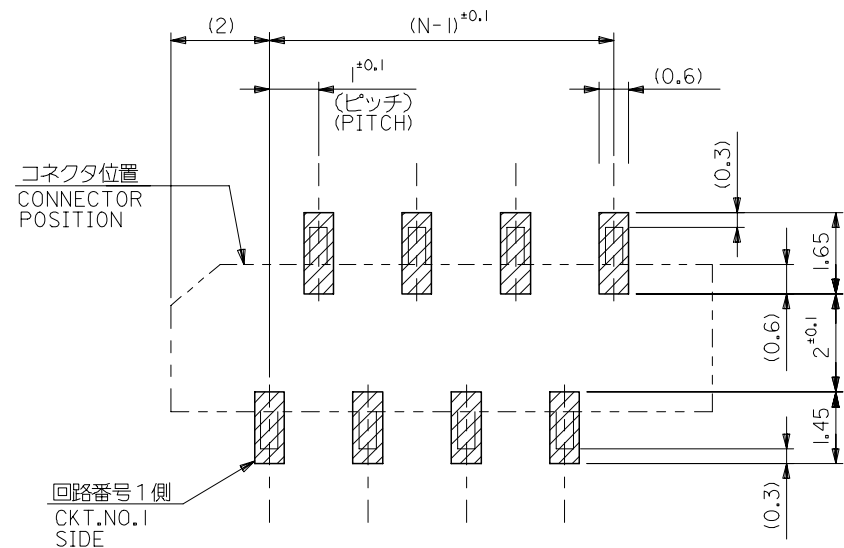
4. 本製品は52808-**-10の鉛フリー品である。

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

REVISED EC NO: J2006-1497 DRWN: NABE1 CHKD: TOYODA APPR: NUKITA	DESCRIPTION 2005/11/04 2005/11/07 2005/11/11	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	±0.2	DRAWN BY M. NABE1	DATE '04/02/19	TITLE 1.0 FFC CONN. NON ZIF SMT. ST. -LEAD FREE-				
		10 OVER 30 UNDER	±0.25	CHECKED BY M. SASAO	DATE '04/02/19					
		30 OVER	±0.3	APPROVED BY M. SASAO	DATE '04/02/19					
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-52808-027		1 OF 1		
		A	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						



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



参考基板レイアウト (マウント面)
RECOMMENDED P.C.BOARD
PATTERN DIMENSION. (REF.)
(MOUNTING AREA)

FPCについて:

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。

ABOUT FPC:

RECOMMENDED PUNCHER DIRECTION: FROM CONDUCTOR SIDE TO STIFFENER BOARD SIDE.

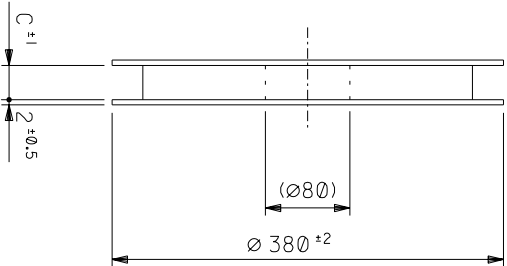
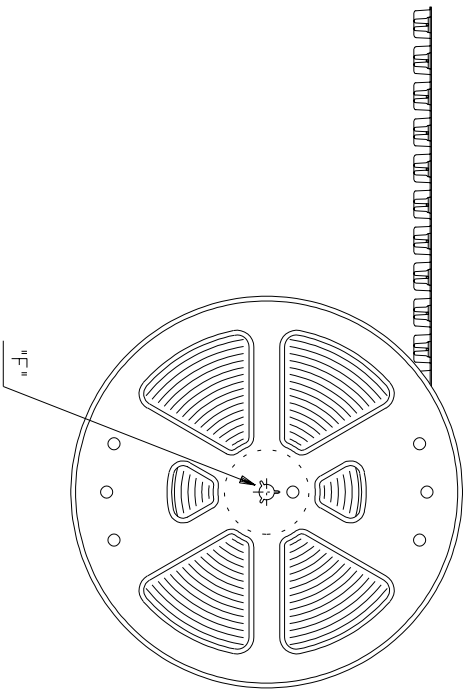
RECOMMENDED MATERIAL:

STIFFENER FILM: POLYIMIDE

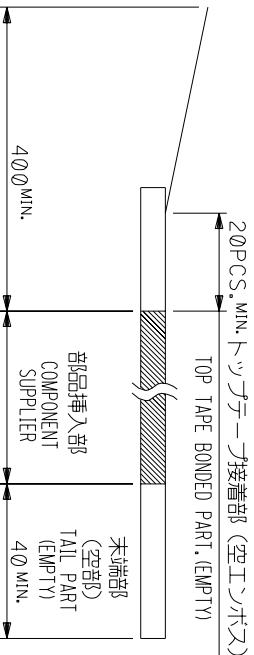
BONDING AGENT: THERMOSETTING BONDING AGENT

REVISED EC NO: J2006-1497 DRAWN:MABEL CHKD:KTOYODA APPR:NUKITA	2005/11/04 2005/11/07 2005/11/11	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION		
			10 UNDER	±0.2	DRAWN BY M.NABE I	DATE '04/02/19	TITLE 1.0 FFC CONN. NON ZIF SMT. ST. -LEAD FREE-				
			10 OVER 30 UNDER	±0.25	CHECKED BY M.SASAO	DATE '04/02/19					
			30 OVER	±0.3	APPROVED BY M.SASAO	DATE '04/02/19	MOLEX INCORPORATED				
	ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.				SHEET NO.		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-52808-027				2 OF 2			
A	REV			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

引き出し方向
PULL OUT
DIRECTION



引き出し方向
PULL OUT
DIRECTION

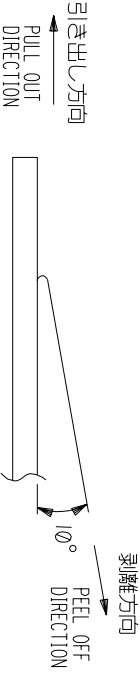


NOTES

- 製品詳細寸法については図面 SD-52808-027 を参照下さい。
RE DETAILED DIMENSION, SEE SD-52808-027
- 梱包数量: 1000個/リール
NUMBER OF CONNECTORS : 1000PCS/REEL
- リールテープ長さ LEAD TAPE LENGTH
20PCS. MIN. リールテープ接着部 (空エンボス)

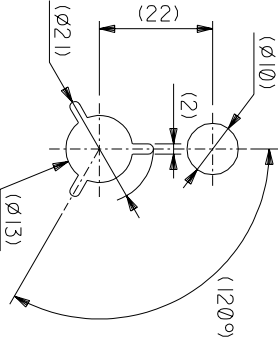
4. トッパテープの剥離強度: 0.1 ~ 1.3N (10 ~ 130gf)

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.



- 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
リール(REEL): ポリスチレン(PS) <リサイクル材を含む>
POLYSTYREN(PS) RECYCLE MATERIAL CONTAINED>
- 本製品は52808-**-90の鉛フリー品である。
THIS PRODUCT IS LEAD FREE OF 52808-**-90

DETAIL "F"



角度	ANGLE	±3°
30°以上		±0.3
10°以下		±0.25
10°以下		±0.2

材料	注記参照	材料	注記参照
MATERIAL	SEE NOTES	MATERIAL	SEE NOTES
仕上げ	FINISH	仕上げ	FINISH
適用電線範囲	—#—	適用電線範囲	—#—
密着外径	—#—	密着外径	—#—
INS. RANGE	—#—	INS. RANGE	—#—
DRAWN BY	W/M/2/9	CHK'D BY	W/M/2/9
APP'D BY	M/NABEI	SCALE	M/SASAO
REVISION	RECORD	DR. CHK.	DATE
記号	0	変更内容	12004-2528
一般公差	±0.2	一般公差	±0.2
公差	±0.2	公差	±0.2

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日本モリス株式会社

REVISE ONLY ON CAD SYSTEM

TITLE 名称

1.0 FFC Conn NON ZIF

SMT ST Embstd Pkg

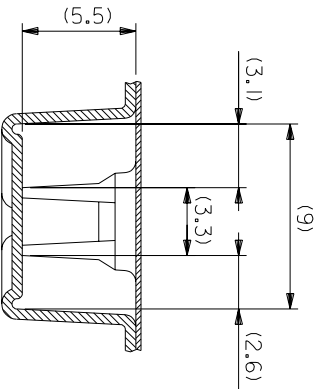
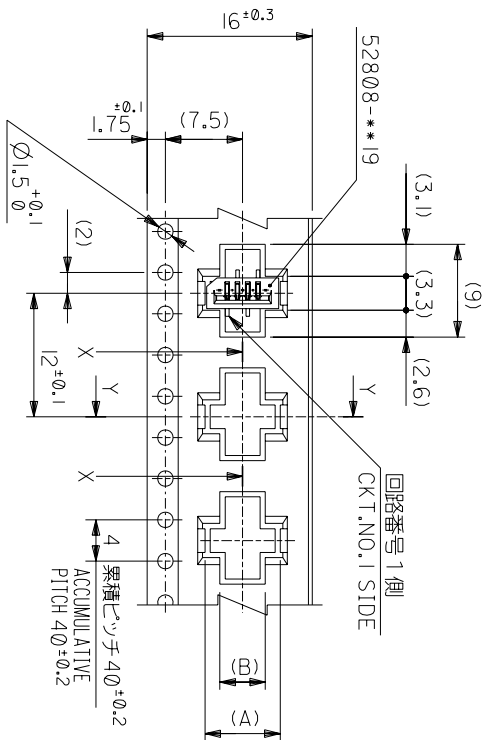
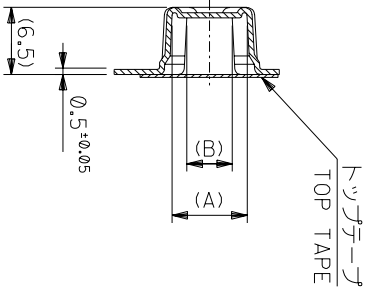
-LEAD FREE-

DWG. NO. SD-52808-028

(SHEET 1 OF 6) REV 0

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EN-01C(032)MXJ-32

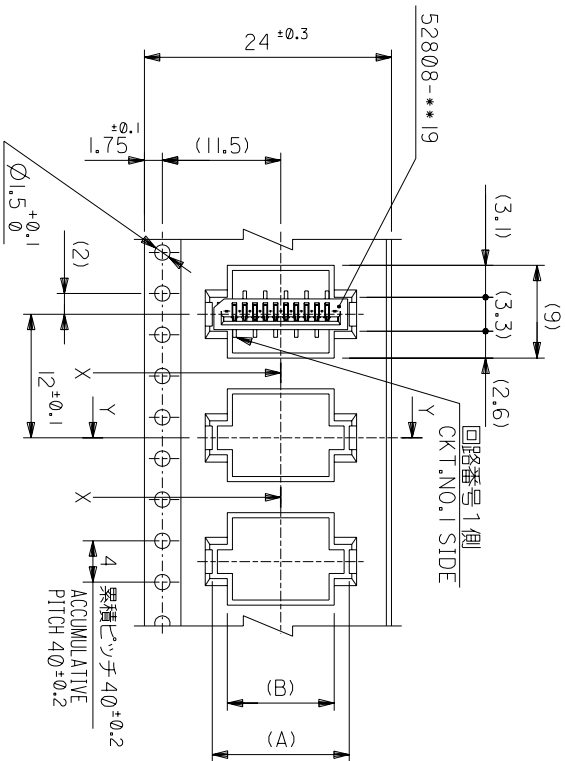
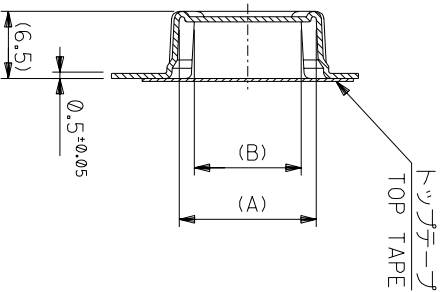


SECTION-Y-Y

引き出し方向
PULL OUT DIRECTION

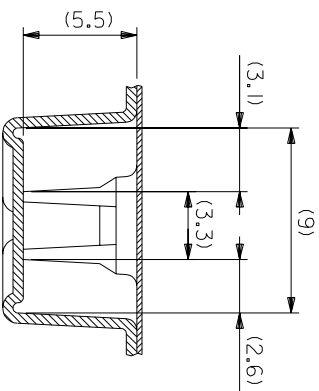
16mm幅キャリアテープ
16mm WIDTH CARRIER TAPE

52808-**-70		16		17.5	5.4	8.3	52808-0570	5
MODEL NO.		キャリアテープ幅 CARRIER TAPE WIDTH		C	(B)	(A)	MATERIAL NO.	極数 CKT.
		材料 MATERIAL		SHEET 1 OF 6 参照 REFER TO SHEET 1 OF 6		MOLEX-JAPAN CO.,LTD. モレックス株式会社		
		仕上げ FINISH		—#—		REVISE ONLY ON CAD SYSTEM		
		適用電線範囲 WIRE RANGE		—#—		TITLE 名称 I.O FFC CONN NON ZIF SMT ST Embedd PKG -LEAD FREE-		
		極数外径 INS. RANGE		—#—		DRAWN BY 00/02/19 CHK'D BY 00/02/19 M.NABEI M.SASAO		
		尺度 SCALE		—#—		DWG. NO. (SHEET 2 OF 6) REV SD-52808-028 0		
GENERAL TOLERANCES		記号 LTR	変更内容 REVISION RECORD	DR- CHK.	日付 DATE			
角度 ANGLE		∠3°						
30 OVER		±0.2						
10 OVER 30 UNDER		±0.25						
10 UNDER		±0.2						



SECT:Y-Y

引き出し方向
PULL OUT DIRECTION

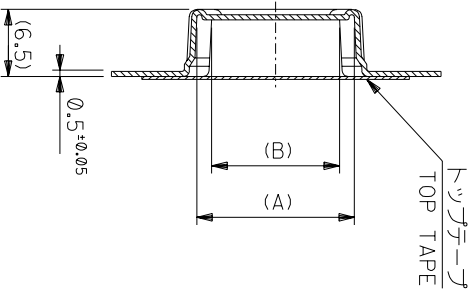


SECT:X-X
(SCALE:4-1)

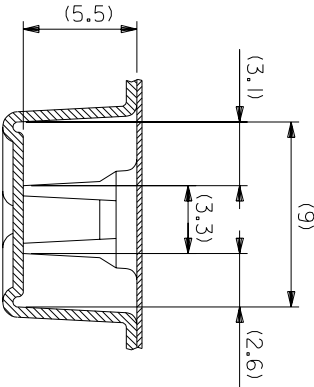
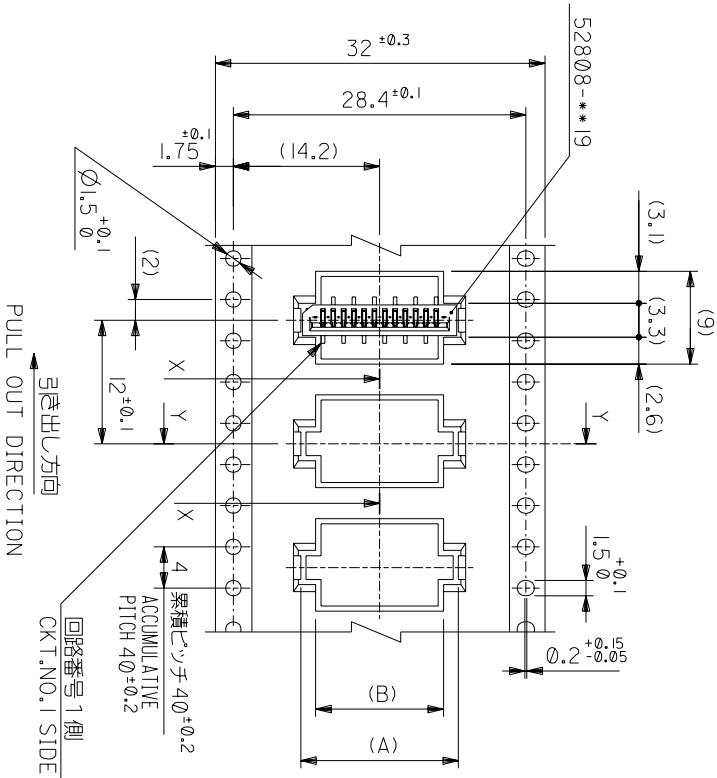
24mm幅キャリアテープ
24mm WIDTH CARRIER TAPE

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 CARRIER TAPE WIDTH	C	(B)	(A)	MATERIAL NO.	極数 CKT.

材料		SHEET 1 OF 6 参照		MATERIAL		SHEET 1 OF 6 参照	
キャリアテープ幅		REFER TO SHEET 1 OF 6		CARRIER TAPE WIDTH		REFER TO SHEET 1 OF 6	
仕上げ		—#—		FINISH		—#—	
適用電線範囲		—#—		適用電線範囲		—#—	
芯線径		—#—		芯線径		—#—	
INS. RANGE		—#—		INS. RANGE		—#—	
DRAWN BY 04/02/19 CHK'D BY 04/02/19		M.NABEI		M.NABEI		M.NABEI	
APP'D BY 04/02/19		M.SASAO		M.SASAO		M.SASAO	
SCALE		—#—		SCALE		—#—	
DWG. NO.		(SHEET 3 OF 6)		REV		0	
SD-52808-028							



SECT:Y-Y



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

32mm幅キャリアテープ
32mm WIDTH CARRIER TAPE

MODEL NO.	CARRIER TAPE WIDTH	C	(B)	(A)	MATERIAL NO.	種数 CKT.
52808-**-70	32	33.5	15.4 14.4 13.4 12.4 11.4	18.3 17.3 16.3 15.3 14.3	52808-1570 52808-1470 52808-1370 52808-1270 52808-1170	15 14 13 12 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 —#—
絶縁外径
INS. RANGE —#—

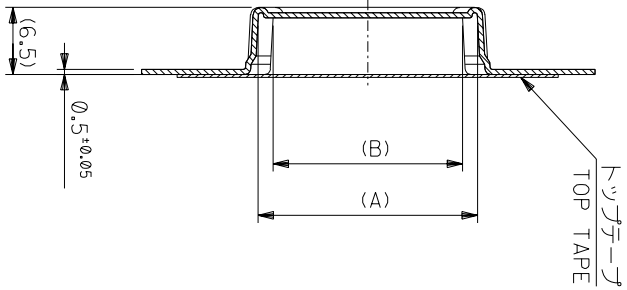
DRAWN BY 04/02/19 CHK'D BY 04/02/19
M.NABEI M.SASAO
APP'D BY 04/02/19 SCALE 1/1
M.SASAO

REVISE ONLY ON CAD SYSTEM
TITLE 名称
I.O FFC Conn NON ZIF
SMT ST Embstp Pkg
-LEAD FREE-

角度 ANGLE	30°以上	30°以下
30°以上	±3°	±3°
30°以下	±3°	±3°
10°以下	±3°	±3°
10°以下	±3°	±3°
10°以下	±3°	±3°

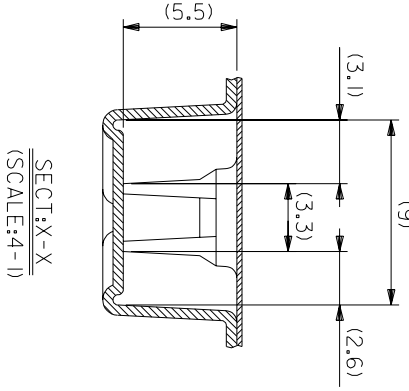
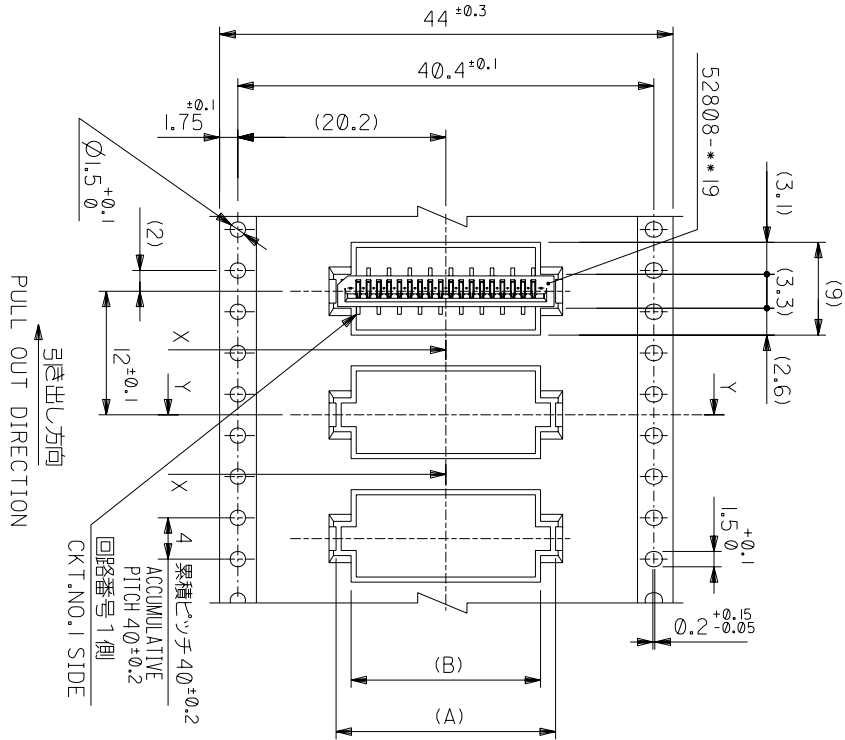
一般公差
GENERAL TOLERANCES

記号	変更内容	DR-CHK.	DATE
0	新規作成 (12004-2528)	M.N.S	04/02/19
0	変更内容	M.SASAO	04/02/19
0	REVISION RECORD	M.SASAO	04/02/19



SECT:Y-Y

44mm幅キャリアテープ
44mm WIDTH CARRIER TAPE



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

角度	ANGLE
30°以上	30°
10°以下	10°
10°以下	10°
10°以下	10°
10°以下	10°

記号	変更内容	DR	CHK	DATE
0	新規格作成 (12004-2528)	M.N.	M.S.	10/02/19
0	リリース	M.N.	M.S.	10/02/19

仕上げ	FINISH
適用電線範囲	—#—
線径	—#—
線径範囲	—#—

I.Ø FFC Conn NON ZIF	
SMT ST Embstp Pkg	
-LEAD FREE-	
DWG. NO.	(SHEET 5 OF 6) REV
SD-52808-028	0

MODEL NO.	52808-**-70
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CARRIER TAPE WIDTH	44
--------------------	----

C	45.5
---	------

(A)	28.4
(B)	31.3
(A)	27.4
(B)	30.3
(A)	26.4
(B)	29.3
(A)	25.4
(B)	28.3
(A)	24.4
(B)	27.3
(A)	23.4
(B)	26.3
(A)	22.4
(B)	25.3
(A)	21.4
(B)	24.3
(A)	20.4
(B)	23.3
(A)	19.4
(B)	22.3
(A)	18.4
(B)	21.3
(A)	17.4
(B)	20.3
(A)	16.4
(B)	19.3

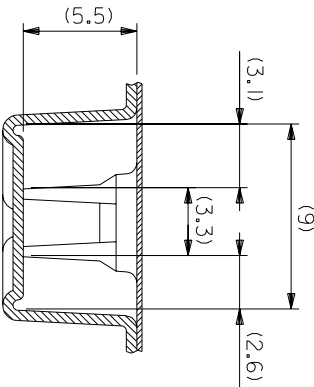
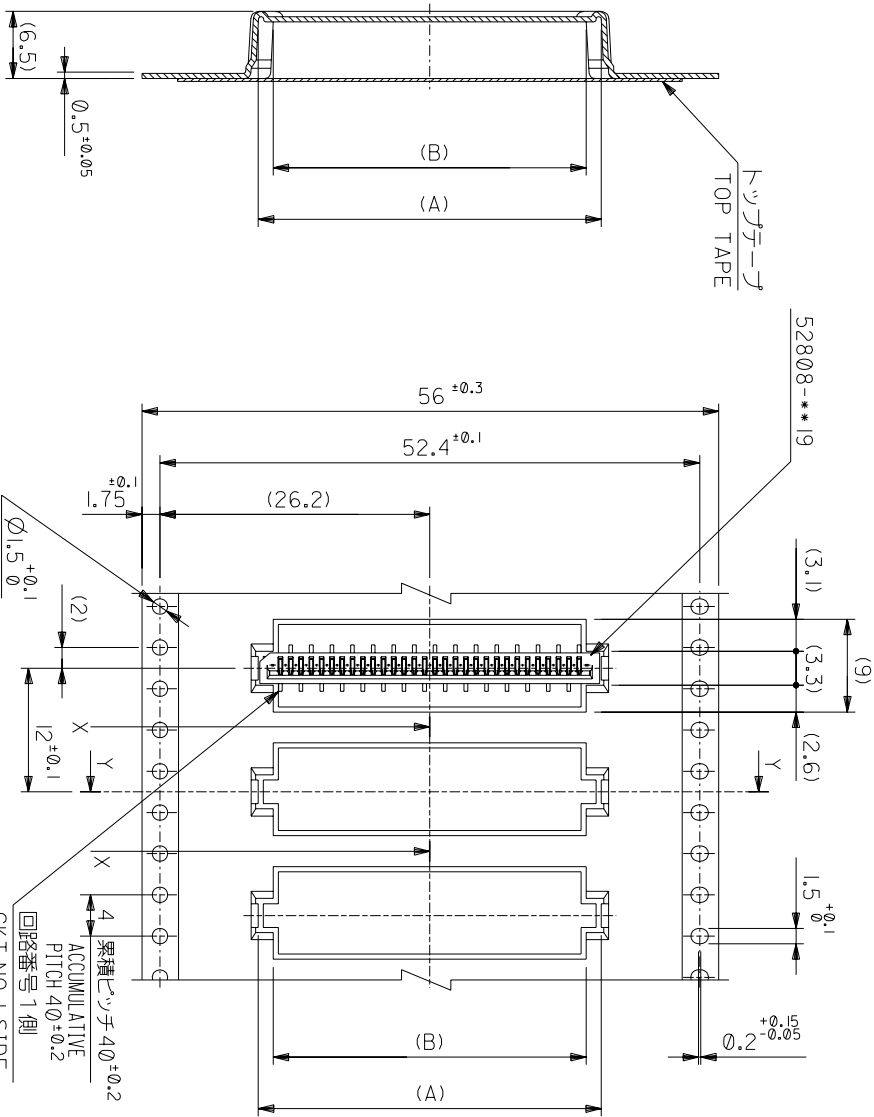
材料 SHEET 1 OF 6 参照
REFER TO SHEET 1 OF 6

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REVISE ONLY ON CAD SYSTEM

TITLE 名称
I/O FFC Conn NON ZIF
SMT ST Embstp Pkg
-LEAD FREE-

DWG. NO. (SHEET 5 OF 6) REV
SD-52808-028 0



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

SECT:Y-Y

56mm幅キャリアテープ

56mm WIDTH CARRIER TAPE

角度	ANGLE
30°以上	30°
10°以下	10°
10°以下	10°
10°以下	10°

記号	記号	記号	記号
0	0	0	0
0	0	0	0
0	0	0	0

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

REVISE ONLY ON CAD SYSTEM	REVISE ONLY ON CAD SYSTEM	REVISE ONLY ON CAD SYSTEM	REVISE ONLY ON CAD SYSTEM
1.0 FFC Conn NON ZIF	1.0 FFC Conn NON ZIF	1.0 FFC Conn NON ZIF	1.0 FFC Conn NON ZIF
SMT ST Embstp Pkg	SMT ST Embstp Pkg	SMT ST Embstp Pkg	SMT ST Embstp Pkg
-LEAD FREE-	-LEAD FREE-	-LEAD FREE-	-LEAD FREE-

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