

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

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 FOR LATEST PART INFORMATION

F

E

D

C

B

A

F

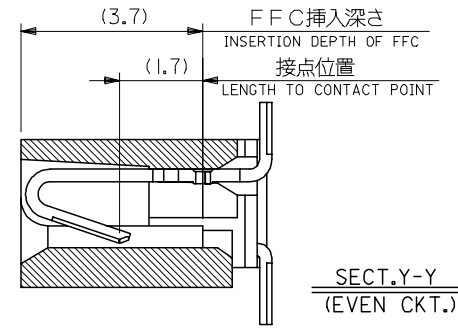
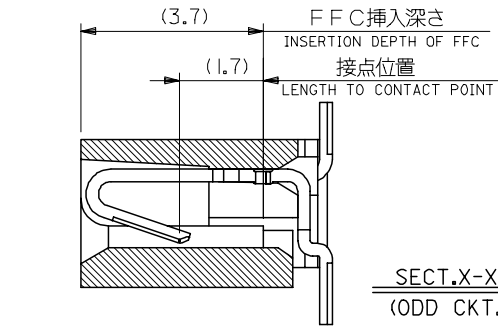
E

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.

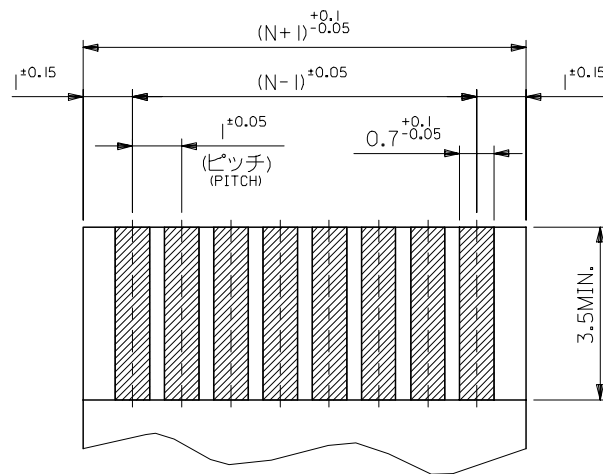
△偶数極に適用。

APPLY FOR EVEN CKT.

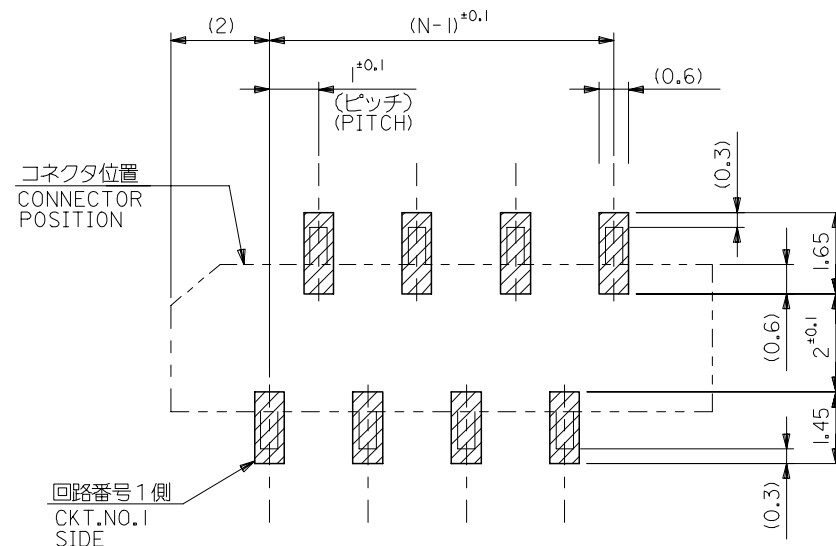
4. 本製品は52808-**-10の鉛フリー品である。

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

REVISED EC NO: J2006-1497 DRWN:MABE1 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	SIZE A3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							



(仕上がり厚さ $0.3 \begin{smallmatrix} +0.03 \\ -0.03 \end{smallmatrix}$)
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.

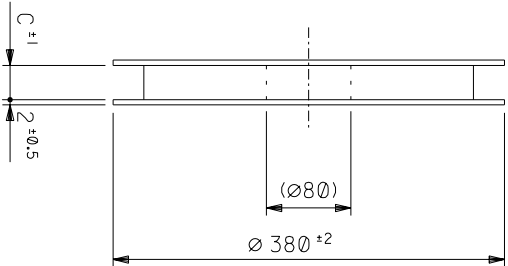
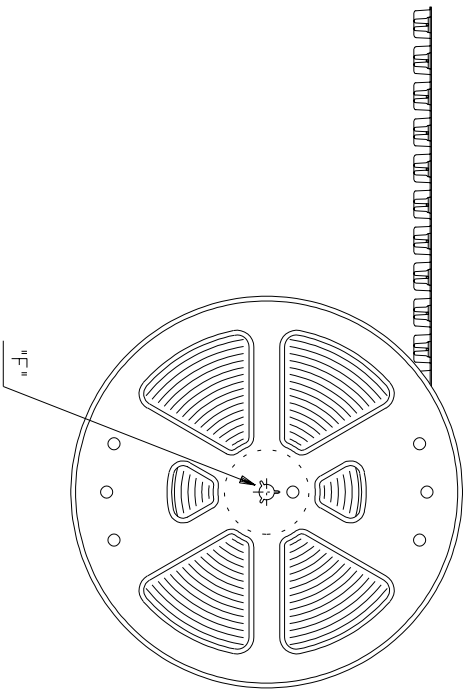
RECOMMENDED MATERIAL:

STIFFENER FILM: POLYIMIDE

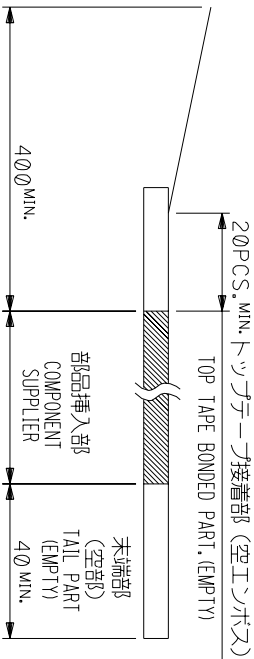
BONDING AGENT: THERMOSETTING BONDING AGENT

REVISED EC NO: J2006-1497 DRAWN:MABEI CHKD:KTOYODA APPR:NUKITA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	±0.2	DRAWN BY M.NABEI	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		
		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

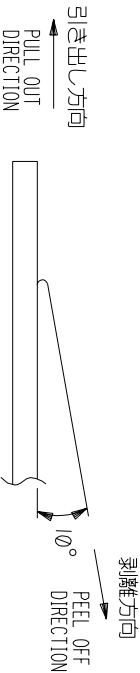


NOTES

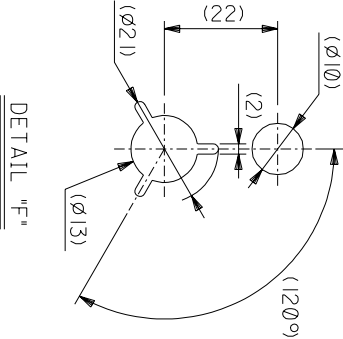
- 製品詳細寸法については図面 SD-52808-027 を参照下さい。
RE DETAILED DIMENSION, SEE SD-52808-027
- 梱包数量: 1000個/リール
NUMBER OF CONNECTORS : 1000PCS/REEL
- リールテープ長さ LEAD TAPE LENGTH
20PCS. MIN. リールテープ接着部 (空エンボス)

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

(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.



- 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
30以上	±3°
10以下	±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
0	新規作成	0	新規作成
1	変更内容	1	変更内容
2	12004-25280	2	12004-25280
3	12004-25280	3	12004-25280
4	12004-25280	4	12004-25280

MOLEX-JAPAN CO.,LTD.
日本モリス株式会社

REVISE ONLY ON CAD SYSTEM

TITLE 名称

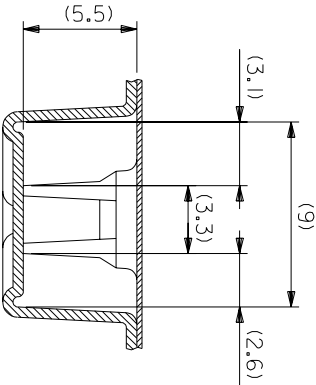
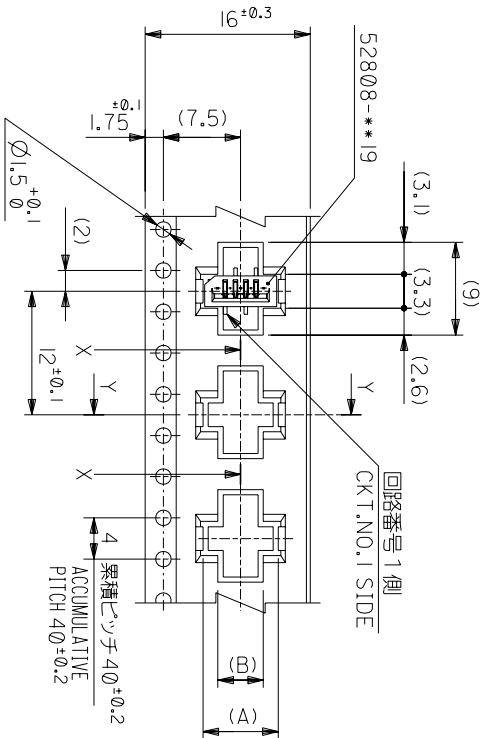
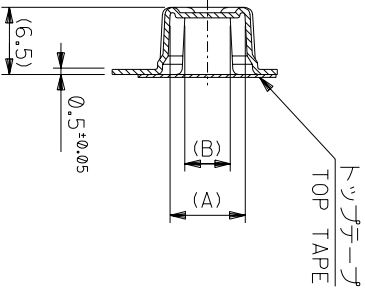
1.0 FFC Conn NON ZIF

SMT ST Embstd Pkg

-LEAD FREE-

DWG. NO. (SHEET 1 OF 6) REV

SD-52808-028 0



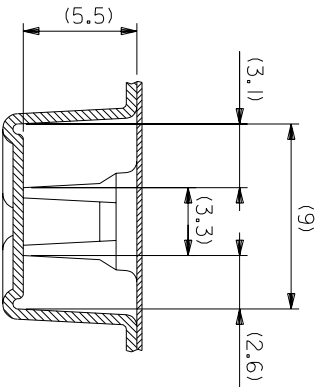
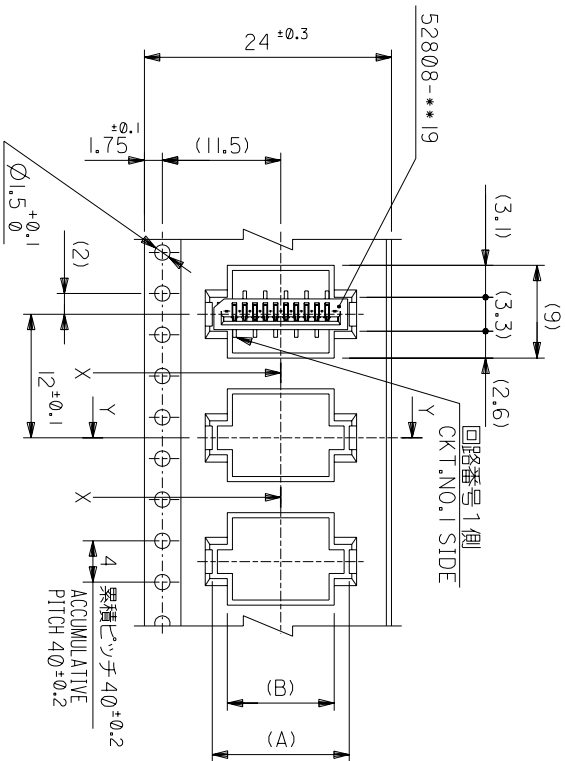
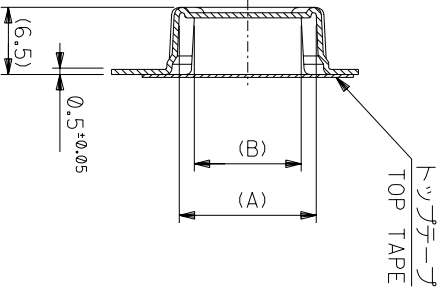
SECT:X-X
(SCALE:4-1)

SECT: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. molex 日本モリス株式会社		
		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		
		絶縁外径 INS. RANGE		—#—		SMT ST Embstd PKG		
		DRAWN BY 04/02/19 CHK'D BY 04/02/19 M.NABEI M.SASAO		尺 SCALE	—#—	DWG. NO. (SHEET 2 OF 6) REV		
		記号 LTR		0	新規作成 REVISION	02004-2528	0	SD-52808-028
		一般公差 GENERAL TOLERANCES		角 ANGLE	度 °	30	0.1	0
				10	0.05	30	0.05	0
				10	0.05	30	0.05	0
				10	0.05	30	0.05	0

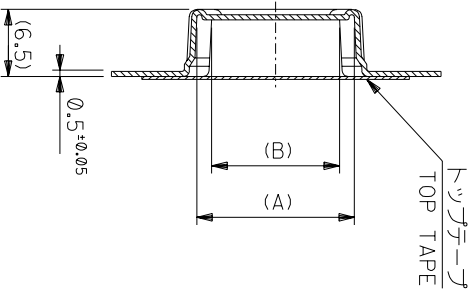


SECT:X-X
(SCALE:4-1)

SECT:Y-Y

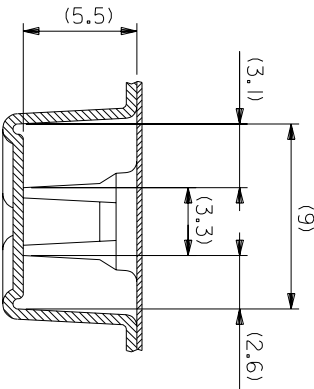
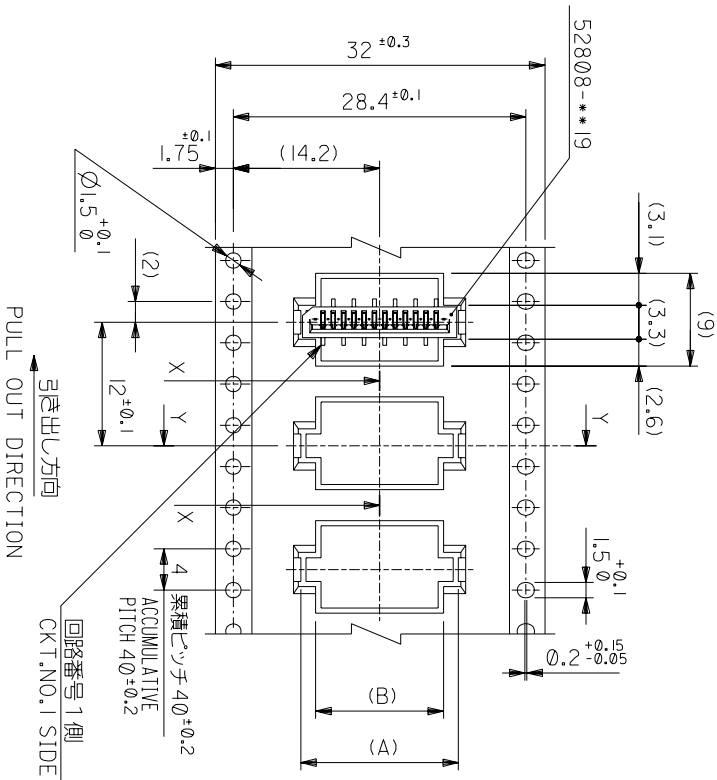
24mm幅キャリアテープ
24mm WIDTH CARRIER TAPE

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 CARRIER TAPE WIDTH		C		(B)		(A)	
		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 Embstd Pkg -LEAD FREE-	
		絶縁外径 INS. RANGE		—#—				DWG. NO. (SHEET 3 OF 6) REV	
		DRAWN BY 04/02/9		CHK'D BY 04/02/9				SD-52808-028 0	
		M.NABEI		M.SASAO					
		M.SASAO		SCALE —#—					
角 度 ANGLE		35°							
30°以上		±0.2							
10°以上 30° UNDER		±0.25							
10° UNDER		±0.2							
一般公差 GENERAL TOLERANCES		0		新規作成 (J2004-2528) REVISION 変更内容 RECORD		DR / CHK. 日付 M.S. 04/02/9			



SECT:Y-Y

32mm幅キャリアテープ
32mm WIDTH CARRIER TAPE



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

52808-**-70	MODEL NO.	キャリアテープ幅 CARRIER TAPE WIDTH	C	(B)	(A)	MATERIAL NO.	種数 CKT.
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 10F 6 参照
REFER TO SHEET 10F 6

仕上げ
FINISH

適用電線範囲
WIRE RANGE

絶縁外径
INS. RANGE

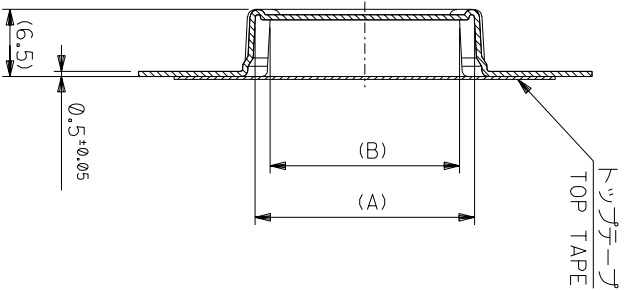
DRAWN BY 04/02/19 CHK'D BY 04/02/19
M.NABEI M.SASAO

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本図面は日本モリス(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。

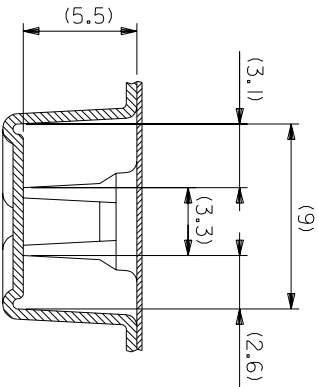
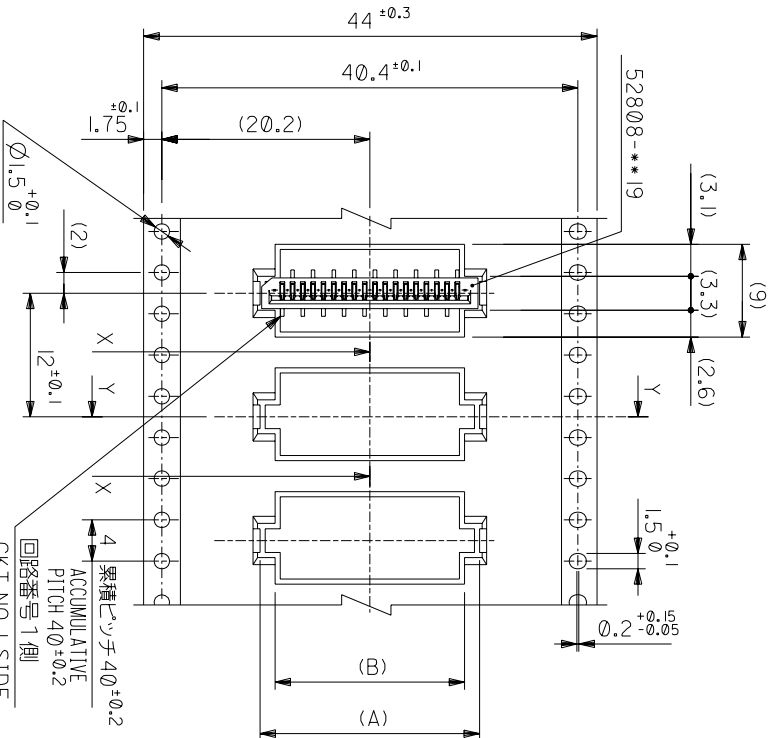
角度 ANGLE	3°
30°以上 30° OVER	1.2
10°以下 10° UNDER	0.25
未指定 UNSPECIFIED	0.2

記号 LTR	0	新規作成 NEW	12004-2528	変更内容 REVISION	DR-CHK.	DATE
一般公差 GENERAL TOLERANCES						

記号 LTR	0	新規作成 NEW	12004-2528	変更内容 REVISION	DR-CHK.	DATE
一般公差 GENERAL TOLERANCES						



SECT:Y-Y



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

44mm幅キャリアテープ
44mm WIDTH CARRIER TAPE

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)		
1	REVISION		
2	REVISION		
3	REVISION		
4	REVISION		

仕上げ	FINISH
適用電線範囲	—#—
線径	—#—
線径範囲	—#—
線径	—#—
線径範囲	—#—

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

材料	SHEET 1 OF 6 参照	MOLEX-JAPAN CO.,LTD. moLEX 日本モリス株式会社
MATERIAL	REFER TO SHEET 1 OF 6	
仕上げ	—#—	REVISE ONLY ON CAD SYSTEM
FINISH		
		FILE 名称

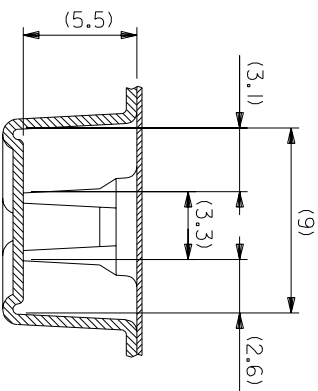
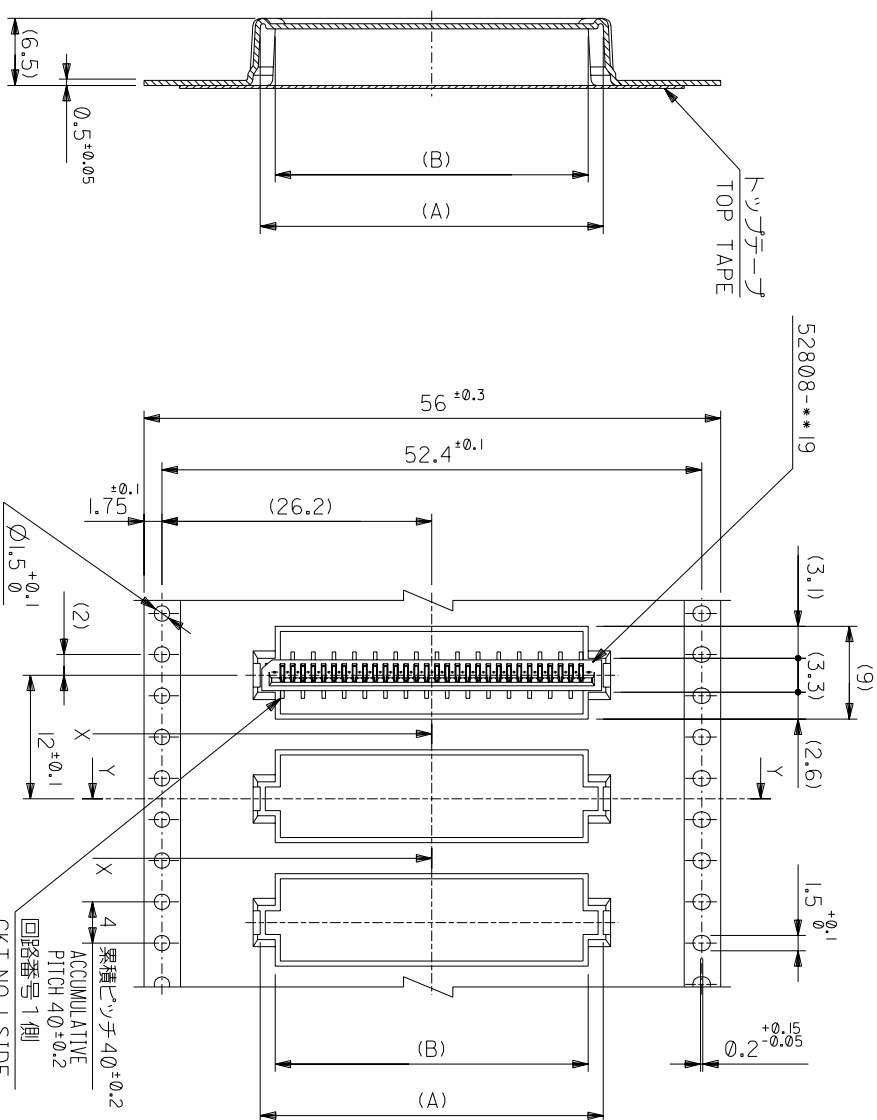
キャリアテープ幅 CARRIER TAPE WIDTH	C	(B)	(A)	MATERIAL NO.	極数 PKT.
		28.4	31.3	52808-2870	28
		27.4	30.3	52808-2770	27
		26.4	29.3	52808-2670	26
		25.4	28.3	52808-2570	25
		24.4	27.3	52808-2470	24
		23.4	26.3	52808-2370	23
		22.4	25.3	52808-2270	22
44	45.5	21.4	24.3	52808-2170	21
		20.4	23.3	52808-2070	20
		19.4	22.3	52808-1970	19
		18.4	21.3	52808-1870	18
		17.4	20.3	52808-1770	17
		16.4	19.3	52808-1670	16

Technical drawing showing a cross-section (SECT. X-X) of a mechanical component. The drawing includes dimensions:

- (3.1) - Top flange thickness
- (3.3) - Central shaft diameter
- (2.6) - Bottom flange thickness
- (5.5) - Total width of the component

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

材料	MATERIAL
キャリアテープ幅	44
CARRIER TAPE WIDTH	44
MODEL NO.	52808-**-70
C	(B)
(A)	MATERIAL NO.

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

(SCALE:4-1)

SECT:Y-Y

56mm幅キヤリャタープ

56mm WIDTH CARRIER TAPE

	56	57.5	30.4	33.3	52808-3070	30
MODEL NO.	キヤリアー幅 CARRIED TAPE WIDTH	C	(B)	(A)	MATERIAL NO.	極数 C/T.
52808-**70			29.4	32.3	52808-2970	29

角度 ANGLE	3°	適用電線範圍 WIRE RANGE	—#—	TITLE 名稱 I.Ø FFC Conn NON ZIF SMT ST Embstd Pkg -LEAD FREE-
30 以上 30 OVER	10.0	被覆外徑 INS. RANGE	—#—	
10 以上 30 以下 10 OVER 30 UNDER	10.25			
10 以下 10 UNDER	10.2	DRAWN BY 04/02/19 M. YANBEI	CHK'D BY 04/02/19 M. SASAO	
GENERAL TOLERANCES	0	新製/作成 (12/004-2520) REPLA		
一般公差 DIMENSIONS	0	變更內容 REVISION RECORD	尺度 SCALE	DWG. NO. (SHEET 6 OF 6)
CTR	DR	DATE	APP'D BY 04/02/19 M. SASAO	REV SD-52808-028
		CHK		0

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

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