

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0528520670

Status:

Active

Overview:

Description:

1.00mm (.039") Pitch FFC/FPC Connector, SMT, Right Angle, Non-ZIF, Bottom Contact Style Receptacle, 6 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)	6
Circuits (maximum)	6
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 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

52852Series

Product Specification

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

Sales Drawing

This document was generated on 06/05/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

10 9 8 7 6 5 4 3 2 1

注記 NOTES:

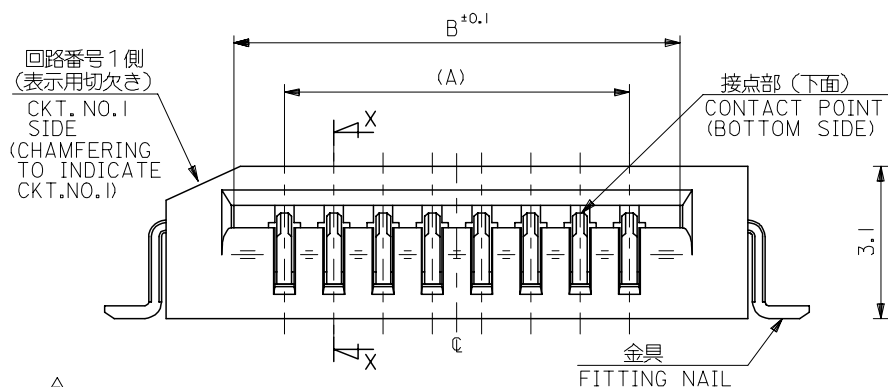
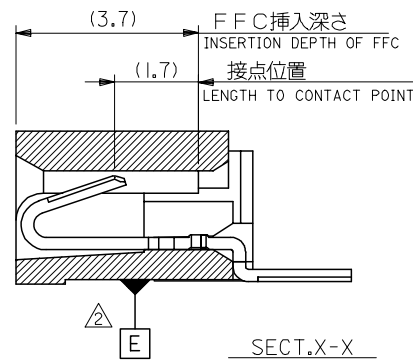
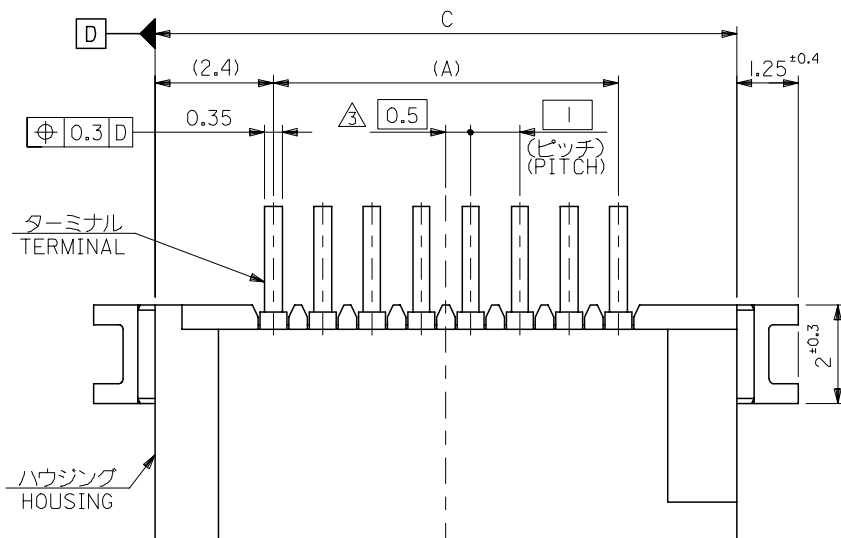
1. 使用材料

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.

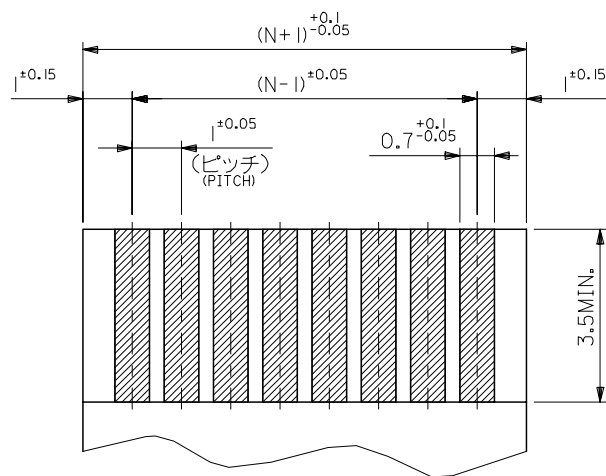


33.8	31.05	29	52852-3019	30
32.8	30.05	28	-2919	29
31.8	29.05	27	-2819	28
30.8	28.05	26	-2719	27
29.8	27.05	25	-2619	26
28.8	26.05	24	-2519	25
27.8	25.05	23	-2419	24
26.8	24.05	22	-2319	23
25.8	23.05	21	-2219	22
24.8	22.05	20	-2119	21
23.8	21.05	19	-2019	20
22.8	20.05	18	-1919	19
21.8	19.05	17	-1819	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 EC NO: J2005-1451 DRAWN:NAIDA CHKD:KTOJO APPR:NUKITA A	DESCRIPTION 2004/11/16 2004/11/17 2004/11/26	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
		10 UNDER	±0.2	DRAWN BY M.NAGATA	DATE '04/02/27	TITLE 1.0 FFC CONN NON ZIF SMT RA (BOTTOM CONTACT) -LEAD FREE-			
		10 OVER 30 UNDER	±0.25	CHECKED BY K.TOJO	DATE '04/02/27				
		30 OVER	±0.3	APPROVED BY M.SASAO	DATE '04/02/27		 MOLEX INCORPORATED		
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.			SHEET NO.
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CAHRT		SD-52852-010			1 OF 2
		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/FFC 推奨寸法
APPLICABLE FPC/FFC
RECOMMENDED DIMENSION.

FPC/FFC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。

ABOUT FPC/FFC

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

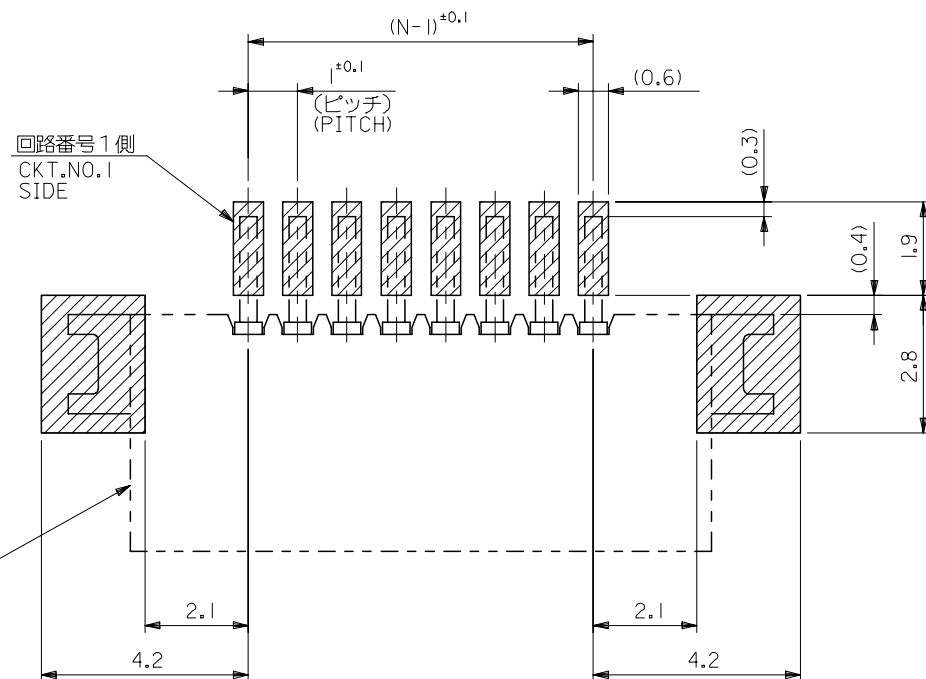
FPCについて:

補強フィルム材質はポリイミドを推奨します。

接着剤は熱硬化接着剤を推奨します。

ABOUT FPC

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



参考基板レイアウト (マウント面)

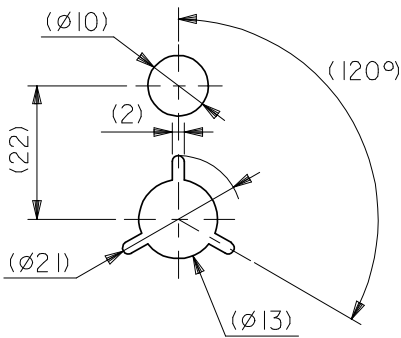
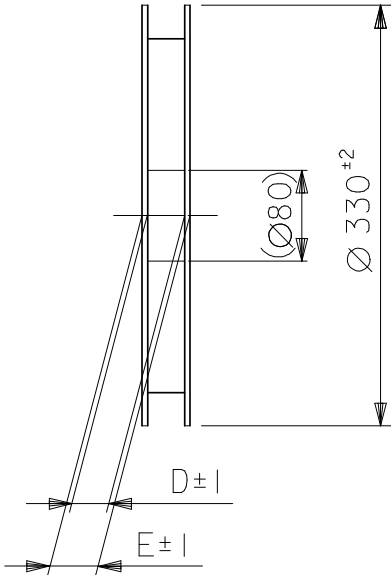
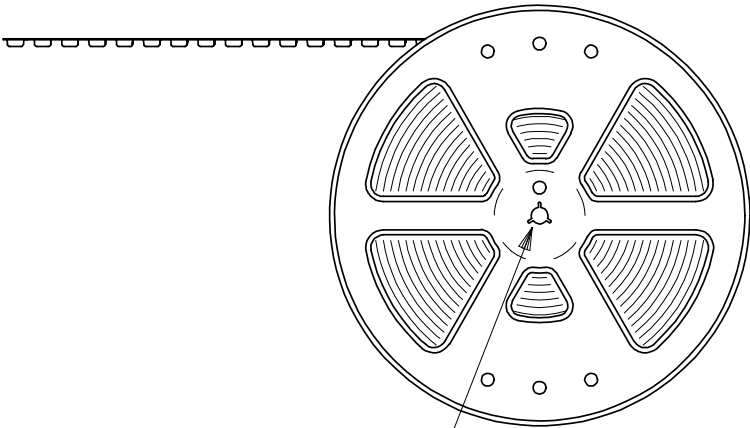
RECOMMENDED P.C.BOARD
PATTERN DIMENSION. (REF.)
(MOUNTING AREA)

REVISED EC NO: J2005-1451 DRAWN: NAIDA CHKD: KTOJO APPR: NUKITA 2004/11/16 2004/11/17 2004/11/26	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
		10 UNDER	± 0.2	DRAWN BY M. NAGATA	DATE '04/02/27	TITLE 1.0 FFC CONN NON ZIF SMT RA (BOTTOM CONTACT) -LEAD FREE-		
		10 OVER 30 UNDER	± 0.25	CHECKED BY K. TOJO	DATE '04/02/27			
		30 OVER	± 0.3	APPROVED BY M. SASAO	DATE '04/02/27	MOLEX INCORPORATED		
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-52852-010		2 OF 2
A		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

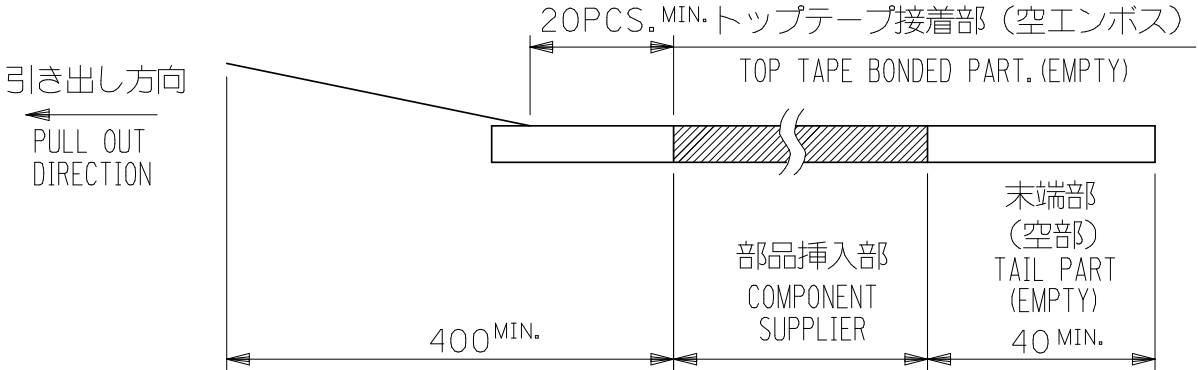
NOTES

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

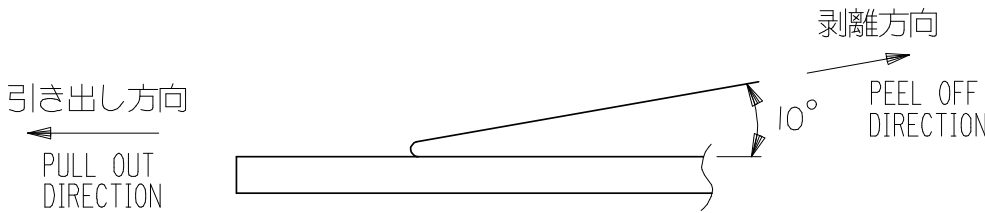
引き出し方向
PULL OUT DIRECTION



DETAIL "F"



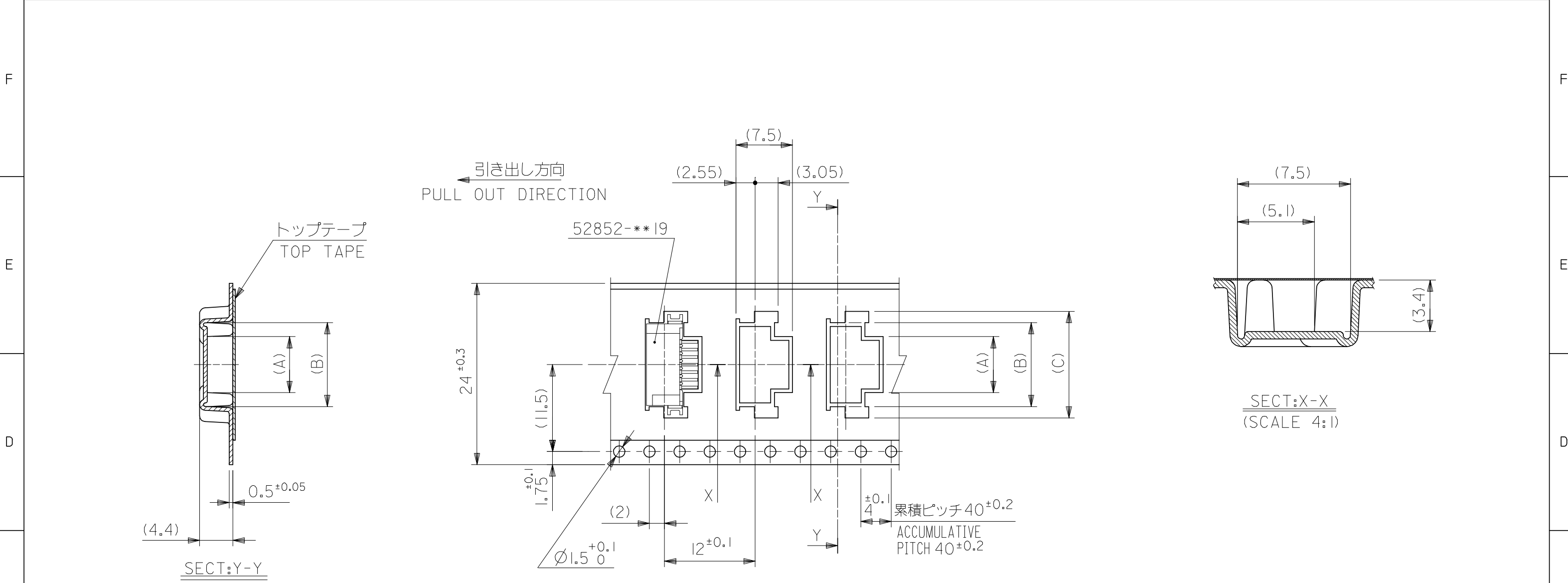
4. トップテープの剥離強度：0.1～1.3N(10 ～ 130gf)
(剥離方向は下図参照)
尚、本規格値は出荷時に適用。(但し、輸送時に剥離が発生しないこと。)
PEELING OFF FORCE OF TOP TAPE：0.1～1.3N(10 ～ 130gf)
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)
THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT.
PEEL OFF SHOULD NOT BE ALLOWED , DURING TRANSPORTATION.



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 EC NO: J2008-1818 DRWN:MNABEI 2007/11/12 CHKD:MISOGAYA 2007/11/13 APPR:NUKITA 2007/11/26 A		DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	MODEL NO.		 THIRD ANGLE PROJECTION		
					MM ONLY		---	METRIC	52852-**70				
			10 ^{UNDER}		± 0.2	DRAWN BY M. NAGATA		DATE '04/02/27	TITLE 1.0 FPC CONN NON ZIF SMT RA BOTTOM CONTACT EMBSTP -LEAD FREE-				
			10 ^{OVER} 30 ^{UNDER}		± 0.25	CHECKED BY K. TOJO		DATE '04/02/27					
			30 ^{OVER}		± 0.3	APPROVED BY M. SASAO		DATE '04/02/27					
			ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.					SHEET NO.	
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-52852-011					1 OF 5	
SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												



C	24mm幅キャリアテープ 24mm WIDTH CARRIER TAPE							C	
	24	29.4	25.4	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		
B	キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(C)	(B)	(A)	MATERIAL NO.	極数 CKT.	B

A	REVISED EC NO: J2008-1818 DRWN:MNABEI 2007/11/12 CHKD:M. ISOGAYA 2007/11/13 APPR:NUKITA 2007/11/26 A	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	MODEL NO.	THIRD ANGLE PROJECTION			
					MM ONLY		---	DESIGN UNITS METRIC	◎ □			
			10 UNDER		± 0.2	DRAWN BY M. NAGATA	DATE '04/02/27	TITLE 1.0 FPC CONN NON ZIF SMT RA BOTTOM CONTACT EMBSTP -LEAD FREE-				
			10 OVER 30 UNDER		± 0.25	CHECKED BY K. TOJO	DATE '04/02/27					
			30 OVER		± 0.3	APPROVED BY M. SASAO	DATE '04/02/27	MOLEX INCORPORATED				
			ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.			
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-52852-011		2 OF 5			
				SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

F

E

D

C

B

A

F

E

D

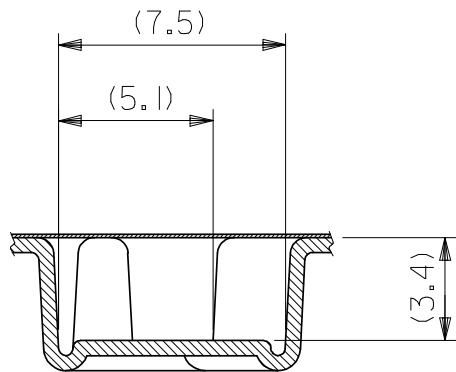
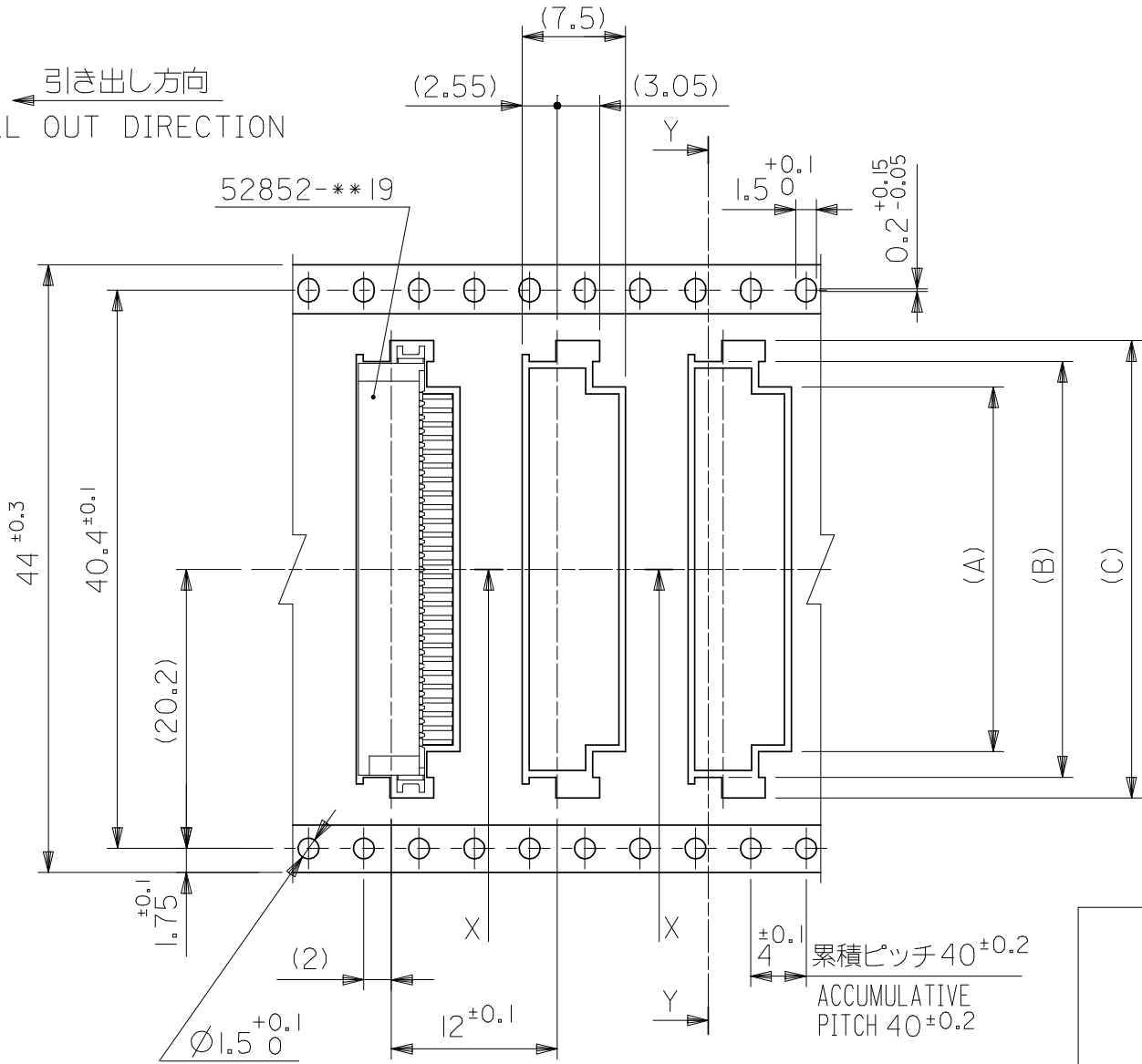
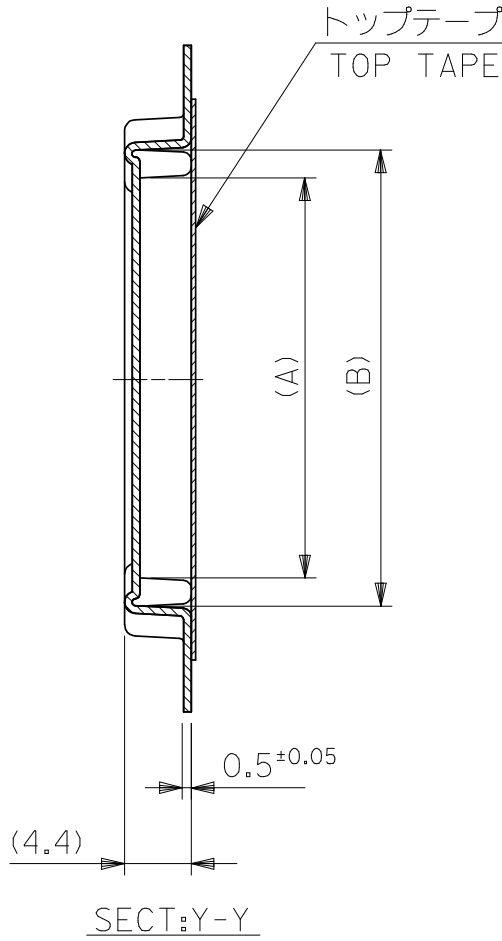
C

B

A

引き出し方向
PULL OUT DIRECTION

52852-**-19



SECT:X-X
(SCALE 4:1)

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

REVISED EC NO: J2008-1818 DRWN:WABEI CHKD:M. ISOGAYA APPR:NUKITA A	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
		10 UNDER	± 0.2	DRAWN BY M. NAGATA	DATE '04/02/27	TITLE 1.0 FPC CONN NON ZIF SMT RA BOTTOM CONTACT EMBSTP -LEAD FREE-						
		10 OVER 30 UNDER	± 0.25	CHECKED BY K. TOJO	DATE '04/02/27							
		30 OVER	± 0.3	APPROVED BY M. SASAO	DATE '04/02/27						molex MOLEX INCORPORATED	
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.					SHEET NO.	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-52852-011					4 OF 5	
	REV				SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

10

9

8

7

6

5

4

3

2

1

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F

E

D

C

B

A

F