

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
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

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10 9 8 7 6 5 4 3 2 1

注記 NOTES:

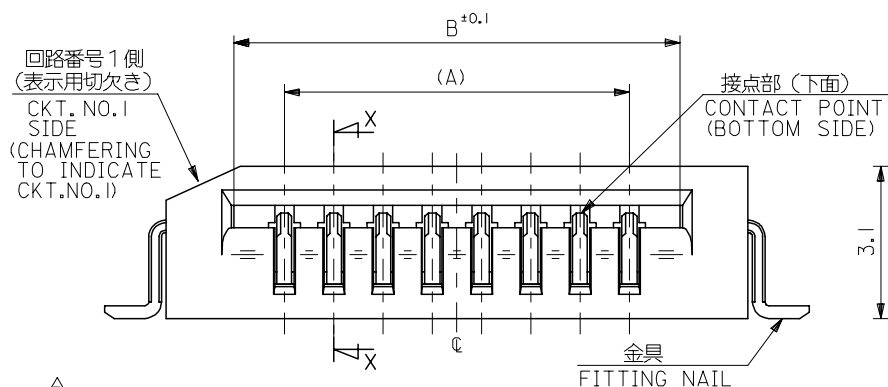
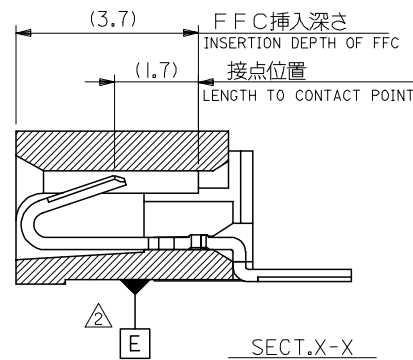
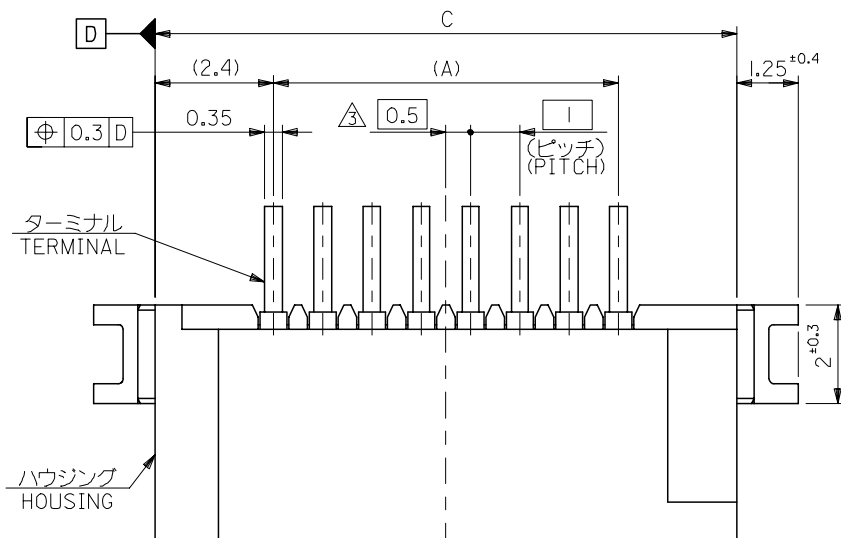
1. 使用材料

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.

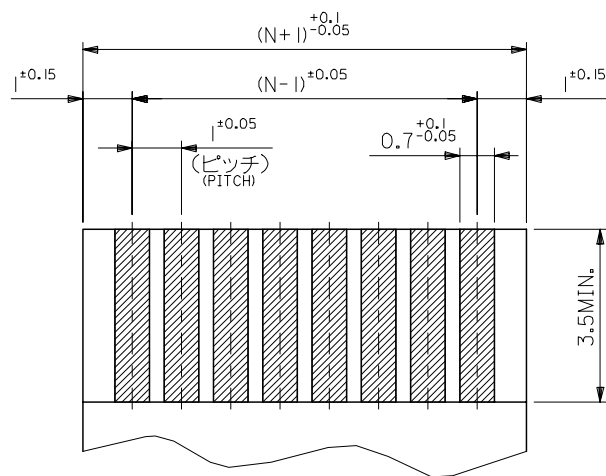


33.8	31.05	29	52852-3019	30
32.8	30.05	28	-2919	29
31.8	29.05	27	-2819	28
30.8	28.05	26	-2719	27
29.8	27.05	25	-2619	26
28.8	26.05	24	-2519	25
27.8	25.05	23	-2419	24
26.8	24.05	22	-2319	23
25.8	23.05	21	-2219	22
24.8	22.05	20	-2119	21
23.8	21.05	19	-2019	20
22.8	20.05	18	-1919	19
21.8	19.05	17	-1819	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 CIRCUT

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 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				
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CAHRT		SD-52852-010		1 OF 2	
		A		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.

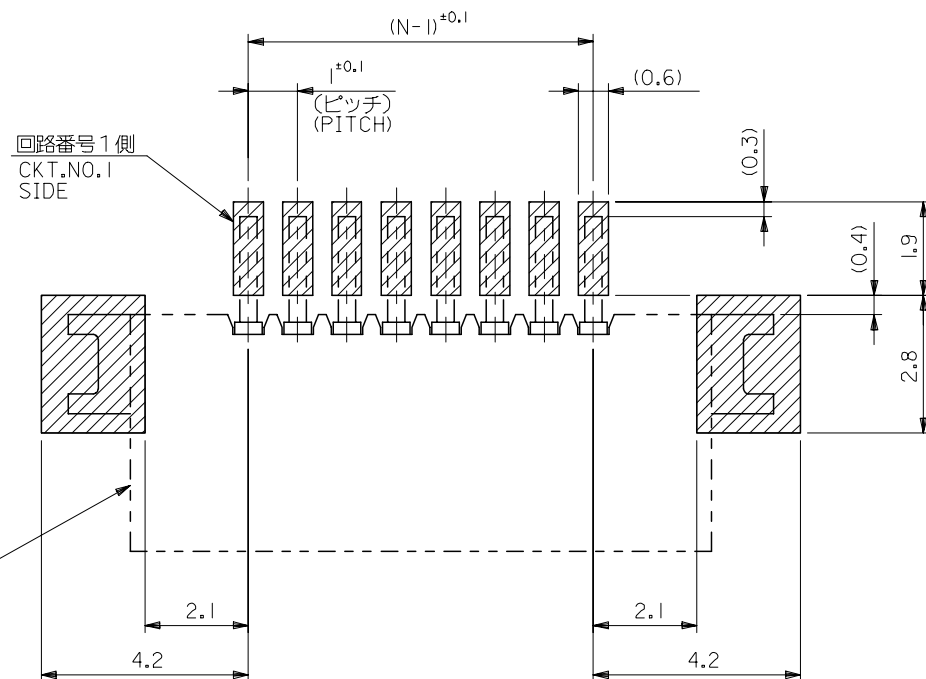
FPCについて:

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



コネクタ位置
CONNECTOR
POSITION

参考基板レイアウト (マウント面)

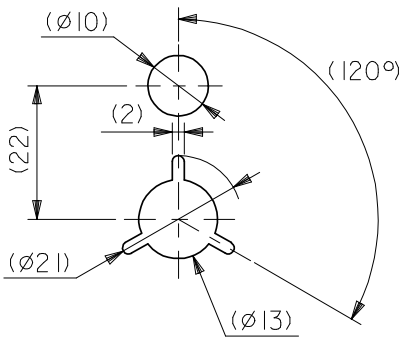
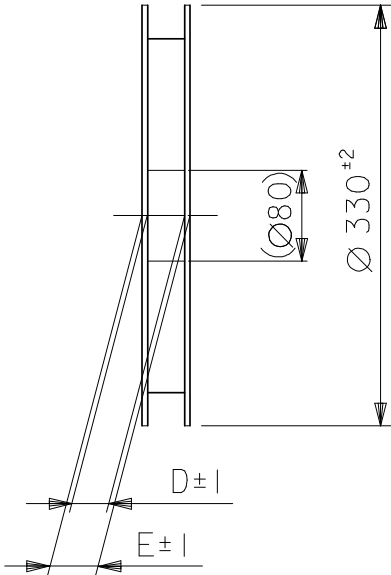
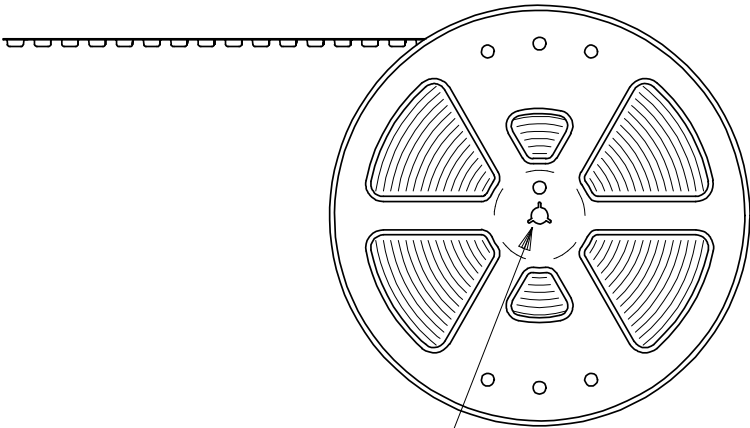
RECOMMENDED P.C.BOARD
PATTERN DIMENSION. (REF.)
(MOUNTING AREA)

REVISED EC NO: J2005-1451 DRWN:NAIDA CHKD:KTOJO APPR:NUKITA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	MODEL NO. 52852-010	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. SEE CHART		DOCUMENT NO. SD-52852-010		SHEET NO. 2 OF 2	
	REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

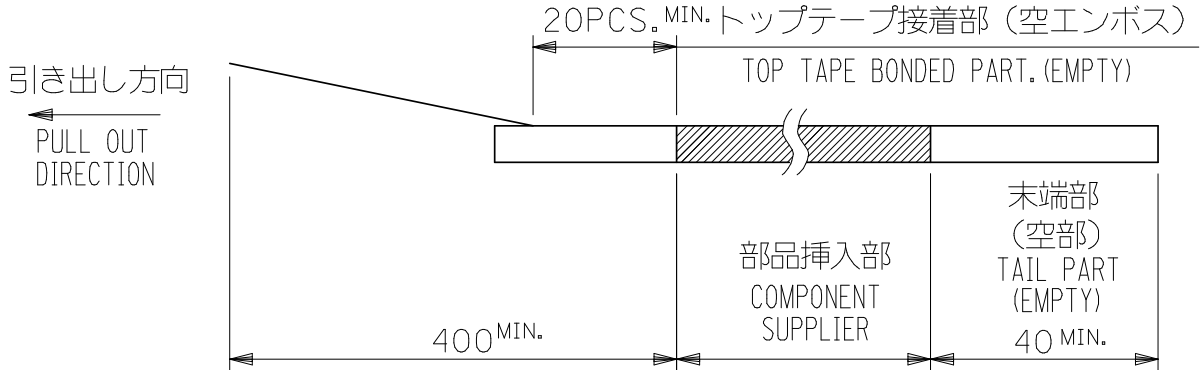
NOTES

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

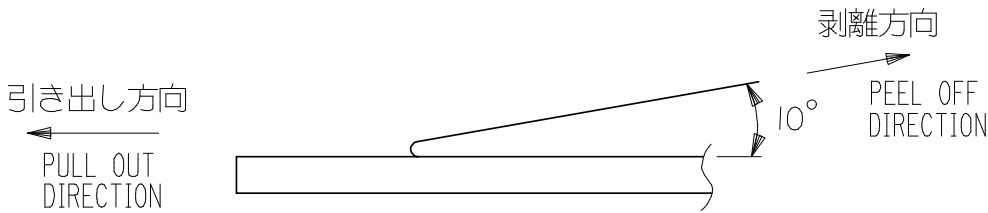
引き出し方向
PULL OUT DIRECTION



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

MODEL NO. 52852-**-70

REVISED EC NO: J2008-1818 DRWN:MNABEL 2007/11/12 CHKD:MISOGAYA 2007/11/13 APPR:NUKITA 2007/11/26 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					
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.				
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-52852-011				
	REV			SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

Technical drawing of a 3D printer's extruder assembly, showing a side view and a cross-section.

Side View Dimensions:

- Overall width: 24 ± 0.3
- Distance from left edge to center of filament guide: (11.5)
- Distance from center of filament guide to center of extruder body: (7.5)
- Distance from center of extruder body to center of filament: (3.05)
- Distance from left edge to center of filament: (2.55)
- Distance from left edge to center of filament guide: (2)
- Distance from center of filament guide to center of extruder body: 12 ± 0.1
- Distance from center of extruder body to center of filament: (A)
- Distance from center of filament to center of filament guide: (B)
- Distance from center of filament to center of filament guide: (C)

Cross-section Dimensions:

- Overall width: 24 ± 0.3
- Distance from left edge to center of filament guide: (11.5)
- Distance from center of filament guide to center of extruder body: (7.5)
- Distance from center of extruder body to center of filament: (3.05)
- Distance from left edge to center of filament: (2.55)
- Distance from left edge to center of filament guide: (2)
- Distance from center of filament guide to center of extruder body: 12 ± 0.1
- Distance from center of extruder body to center of filament: (A)
- Distance from center of filament to center of filament guide: (B)
- Distance from center of filament to center of filament guide: (C)

Other Dimensions:

- Distance from left edge to center of filament guide: 1.75 ± 0.1
- Distance from center of filament guide to center of extruder body: (2.55)
- Distance from center of extruder body to center of filament: (3.05)
- Distance from left edge to center of filament: (2.55)
- Distance from left edge to center of filament guide: (2)
- Distance from center of filament guide to center of extruder body: 12 ± 0.1
- Distance from center of extruder body to center of filament: (A)
- Distance from center of filament to center of filament guide: (B)
- Distance from center of filament to center of filament guide: (C)

Labels:

- PULL OUT DIRECTION
- 52852-**-19
- 累積ピッチ 40 ± 0.2
- ACCUMULATIVE PITCH 40 ± 0.2

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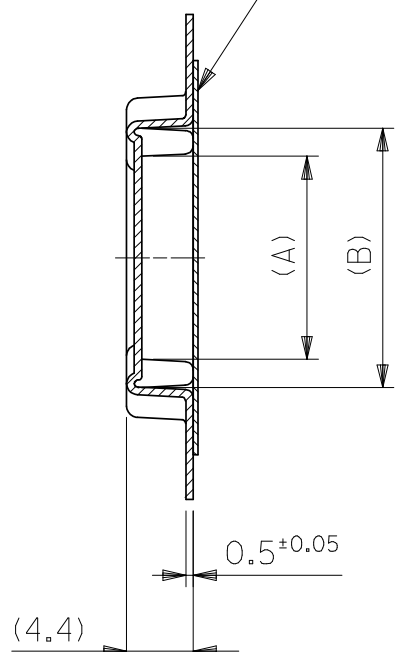
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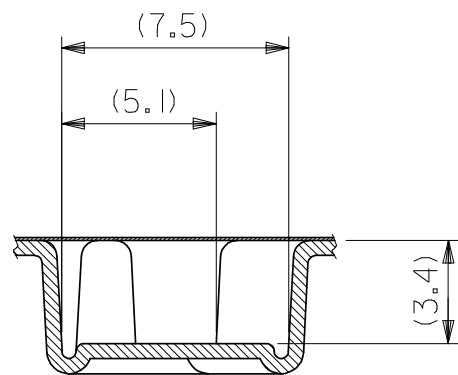
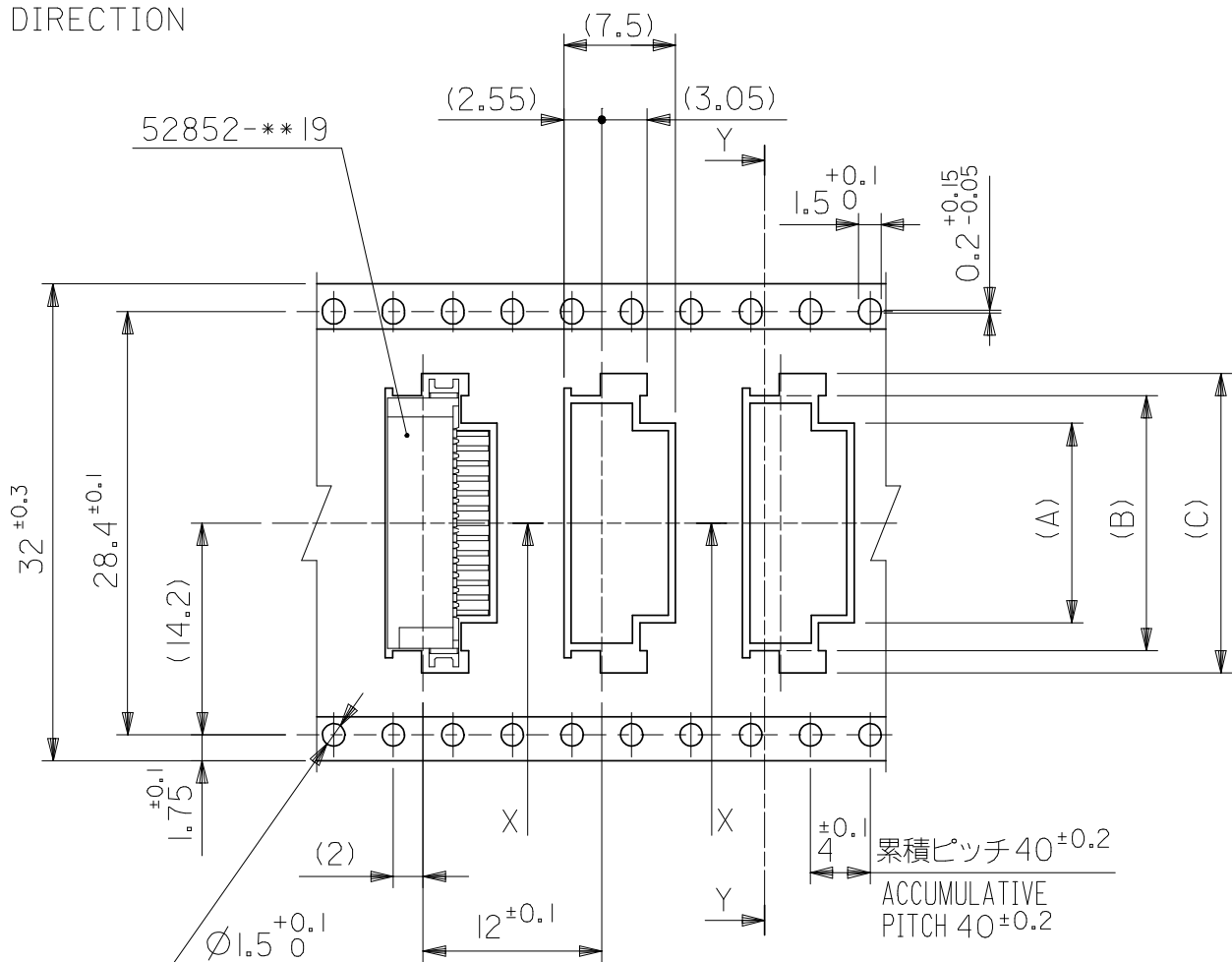
引き出し方向
PULL OUT DIRECTION

トップテープ
TOP TAPE

52852-***19



SECT:Y-Y



SECT:X-X
(SCALE 4:1)

32mm幅キャリアテープ
32mm WIDTH CARRIER TAPE

32	37.5	33.5	23.1	20.1	16.4	52852-1670	16
			22.1	19.1	15.4	52852-1570	15
			21.1	18.1	14.4	52852-1470	14
			20.1	17.1	13.4	52852-1370	13
			19.1	16.1	12.4	52852-1270	12
キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(C)	(B)	(A)	MATEROAL NO.	極数 CKT.

MODEL NO. 52852-***70

DESIGN UNITS
METRICTHIRD ANGLE
PROJECTION

REVISED
EC NO: J2008-1818
DRWN:MNABEL
CHKD:M.ISOGAYA
APPR:NUKITA

DESCRIPTION
REV

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	DATE
M. NAGATA	'04/02/27
CHECKED BY	DATE
K. TOJO	'04/02/27
APPROVED BY	DATE
M. SASAO	'04/02/27
MATERIAL NO.	
SEE TABLE	
SIZE	
A 3	

TITLE	
1.0 FPC CONN NON ZIF SMT RA BOTTOM CONTACT EMBSTP -LEAD FREE-	
MOLEX INCORPORATED	
DOCUMENT NO.	SHEET NO.
SD-52852-011	3 OF 5

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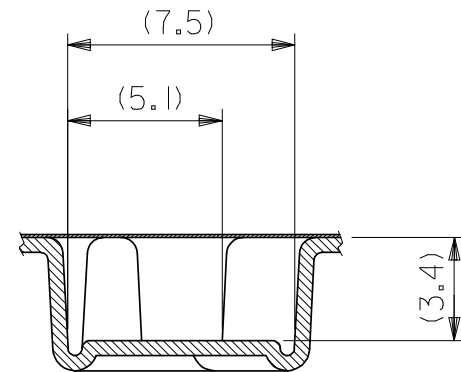
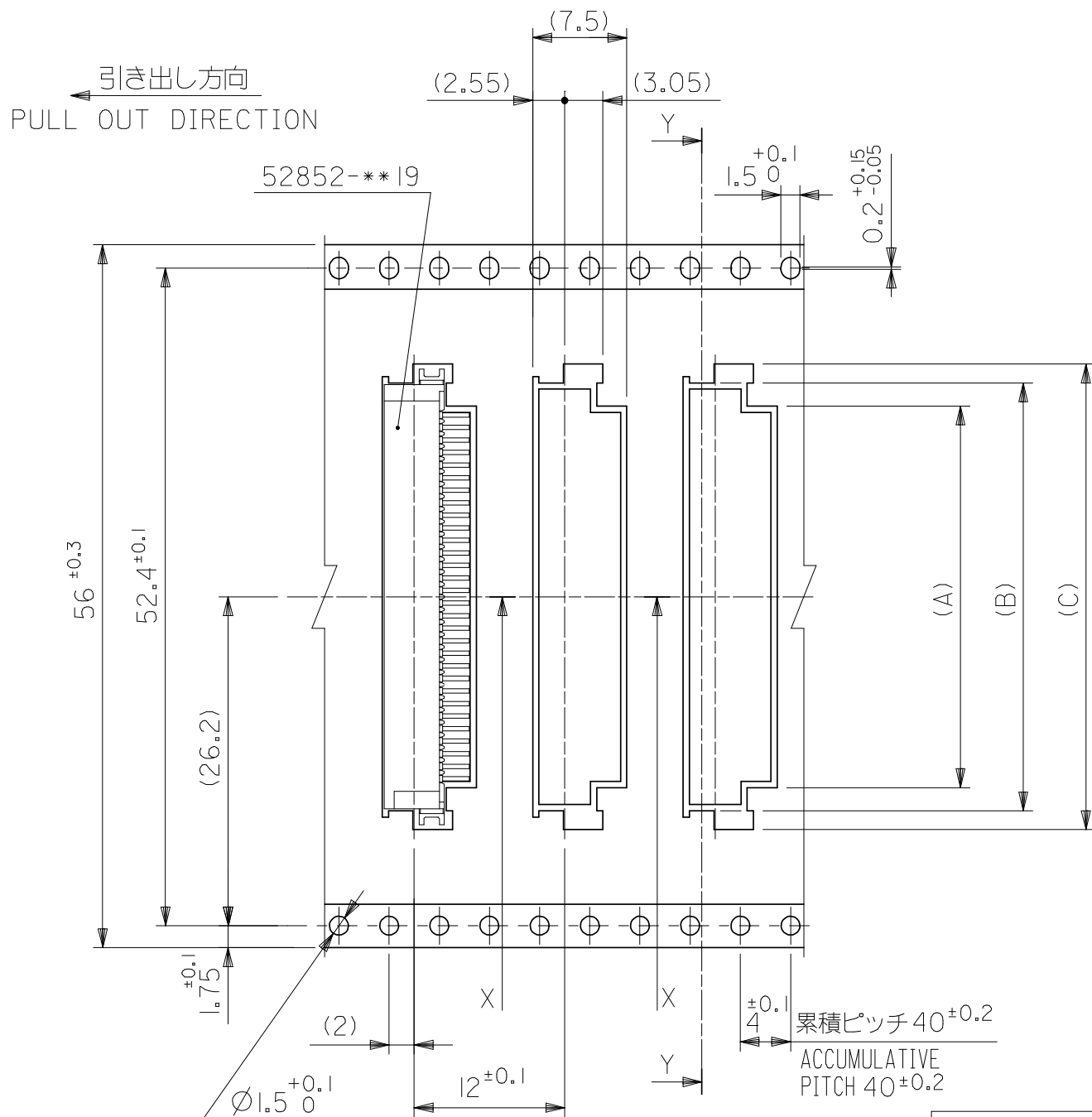
E

D

C

B

A



56mm幅キャリアテープ
56mm WIDTH CARRIER TAPE

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

REVISED	EC NO: J2008-1818	DRWN:MNABEI	2007/11/12	CHKD:M ISOGAYA	2007/11/13	APPR:NUKITA	2007/11/26	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	MODEL NO. DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
									10 UNDER	± 0.2	DRAWN BY M. NAGATA		DATE '04/02/27	TITLE 1.0 FPC CONN. N-ZIF R/A 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				5 OF 5	
A	REV	SIZE A 3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION															

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Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

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