

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0528523070](#)
Status: **Active**
Overview: [ffc_fpc_smt](#)
Description: 1.00mm (.039") Pitch FFC/FPC Connector, SMT, Right Angle, Non-ZIF, Bottom Contact Style Receptacle, 30 Circuits, Lead-free

Documents:

3D Model	Product Specification PS-52852-014 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	FFC/FPC Connectors
Series	52852
Overview	ffc_fpc_smt
Product Name	N/A

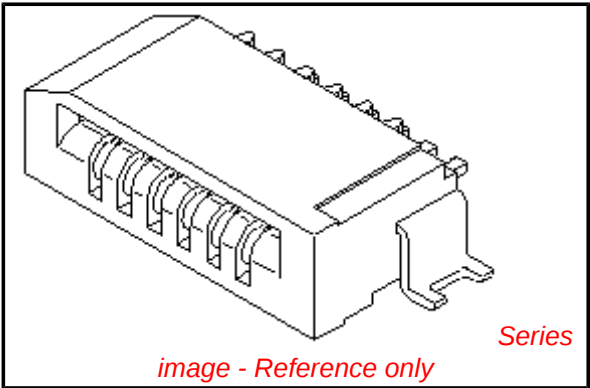
Physical

Circuits (Loaded)	30
Circuits (maximum)	30
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



EU RoHS

**ELV and RoHS
Compliant**
**REACH SVHC
Contains SVHC: No**
**Halogen-Free
Status**

Not Reviewed

**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.

China RoHS



Search Parts in this Series
[52852Series](#)

Reference - Drawing Numbers

Packaging Specification
Product Specification

SPK-52852-001
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 06/07/2010

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10 9 8 7 6 5 4 3 2 1

注記 NOTES:

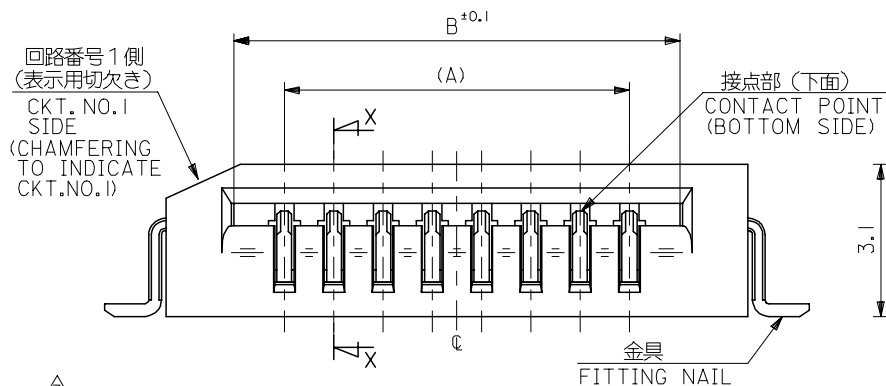
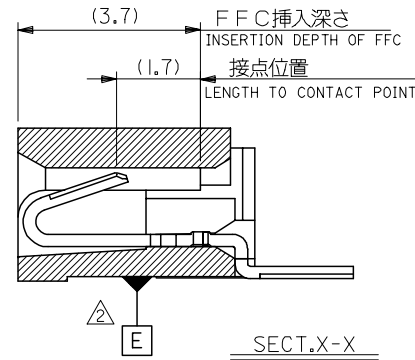
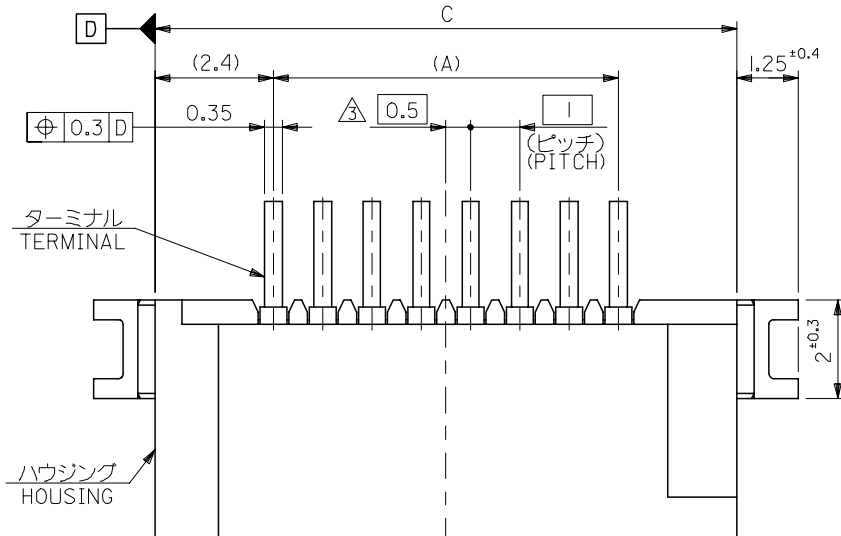
1. 使用材料

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.

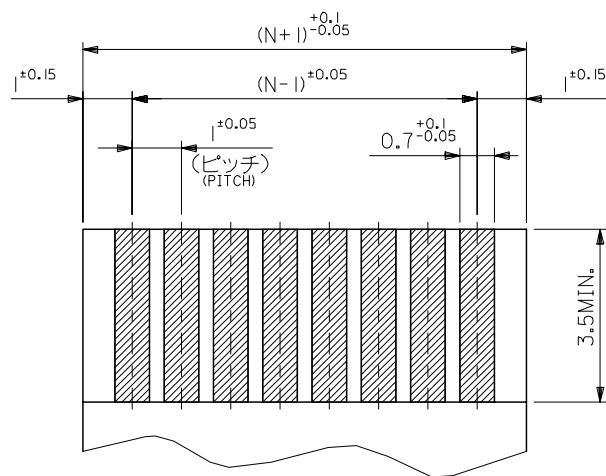


33.8	31.05	29	52852-3019	30
32.8	30.05	28	-2919	29
31.8	29.05	27	-2819	28
30.8	28.05	26	-2719	27
29.8	27.05	25	-2619	26
28.8	26.05	24	-2519	25
27.8	25.05	23	-2419	24
26.8	24.05	22	-2319	23
25.8	23.05	21	-2219	22
24.8	22.05	20	-2119	21
23.8	21.05	19	-2019	20
22.8	20.05	18	-1919	19
21.8	19.05	17	-1819	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 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 DRWN:NAIDA CHKD:KTOJO APPR:NUKITA 2004/11/16 2004/11/17 2004/11/26	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 FFC CONN NON ZIF SMT RA (BOTTOM CONTACT) -LEAD FREE-	 MOLEX INCORPORATED		
		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. SEE CAHRT		DOCUMENT NO. SD-52852-010			SHEET NO. 1 OF 2
	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						



(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.

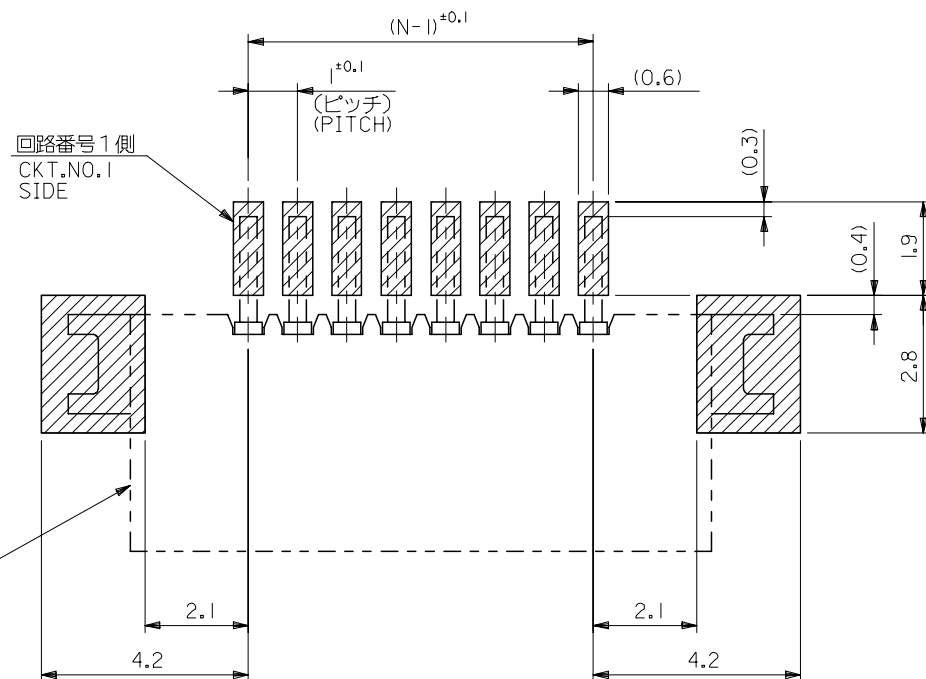
FPCについて:

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)

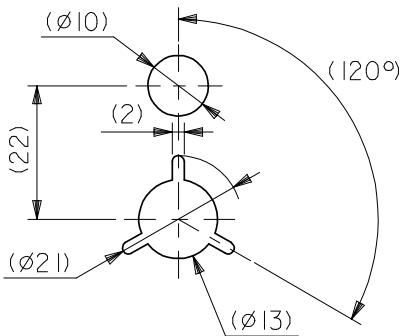
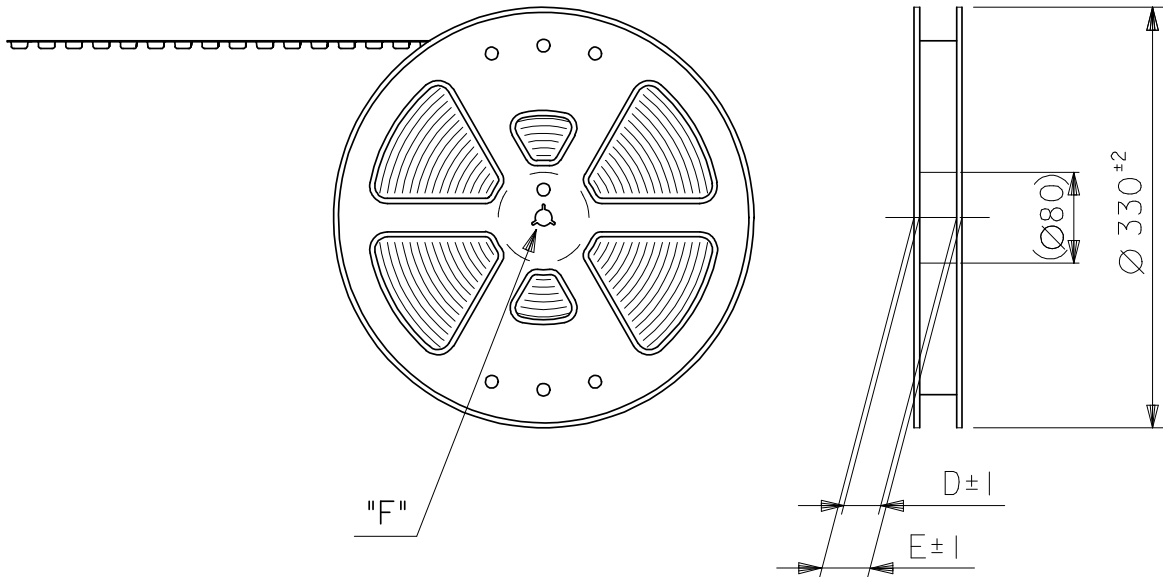
RECOMMENDED P.C.BOARD
PATTERN DIMENSION. (REF.)
(MOUNTING AREA)

REVISED EC NO: J2005-1451 DRWN:NAIDA 2004/11/16 CHKD:KTOJO 2004/11/17 APPR:NUKITA 2004/11/26 DESCRIPTION REV		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	MODEL NO. 52852-***19
		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			
A		ANGULAR	±3 °	MATERIAL NO.		DOCUMENT NO. SD-52852-010		SHEET NO. 2 OF 2
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

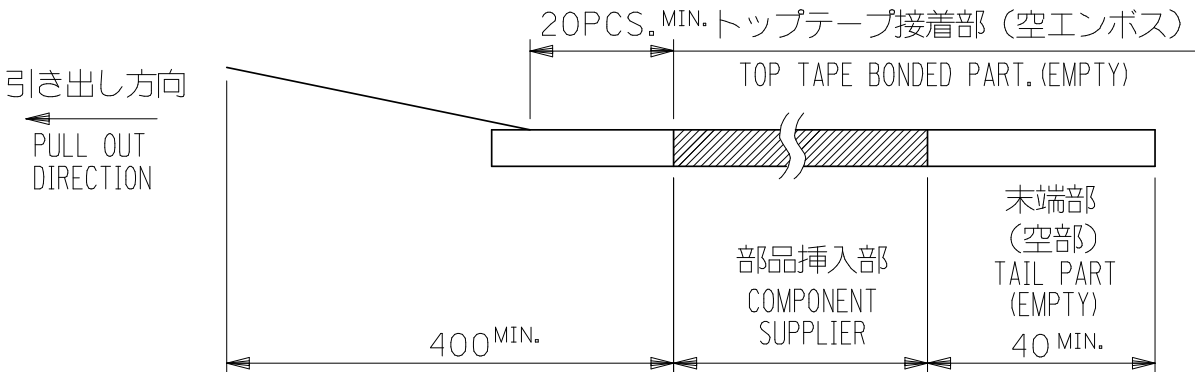
NOTES

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

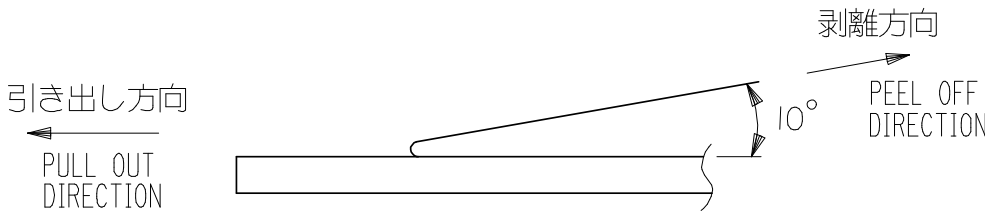
引き出し方向
PULL OUT DIRECTION



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									

F

E

D

C

B

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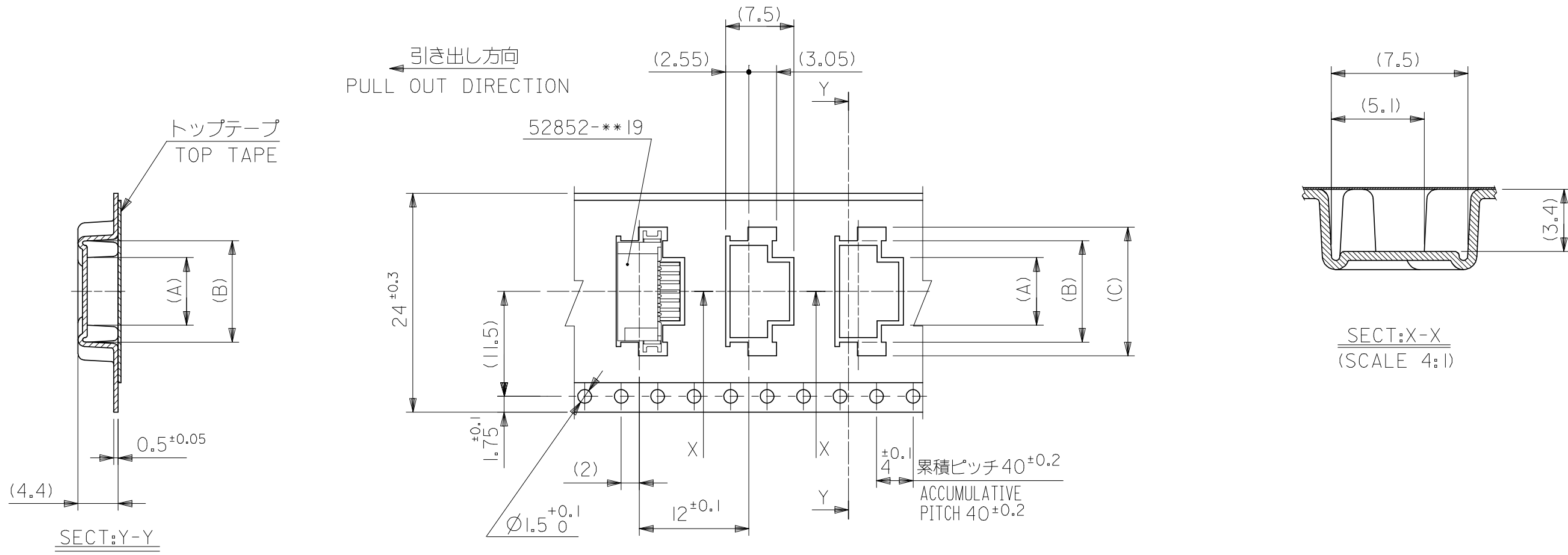
E

D

C

B

A



24mm幅キャリアテープ
24mm WIDTH CARRIER TAPE

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
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
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 M. NAGATA	DATE '04/02/27
CHECKED BY K. TOJO	DATE '04/02/27
APPROVED BY M. SASAO	DATE '04/02/27
MATERIAL NO. SEE TABLE	
SIZE A 3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

SCALE

TITLE
1.0 FPC CONN NON ZIF SMT
RA BOTTOM CONTACT EMBSTP
-LEAD FREE-

MODEL NO.
DESIGN UNITS
METRIC
THIRD ANGLE
PROJECTION

DOCUMENT NO.
SD-52852-011

SHEET NO.
2 OF 5

52852-***70

MOLEX INCORPORATED

10

9

8

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6

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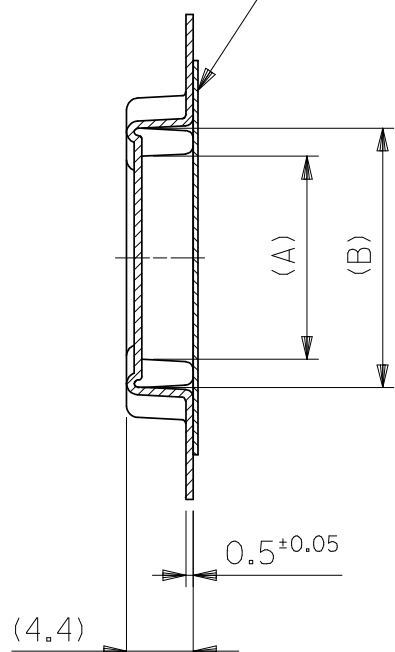
2

1

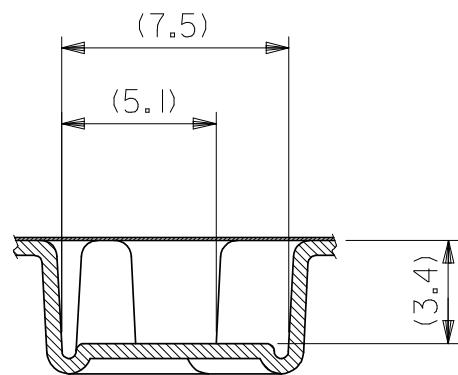
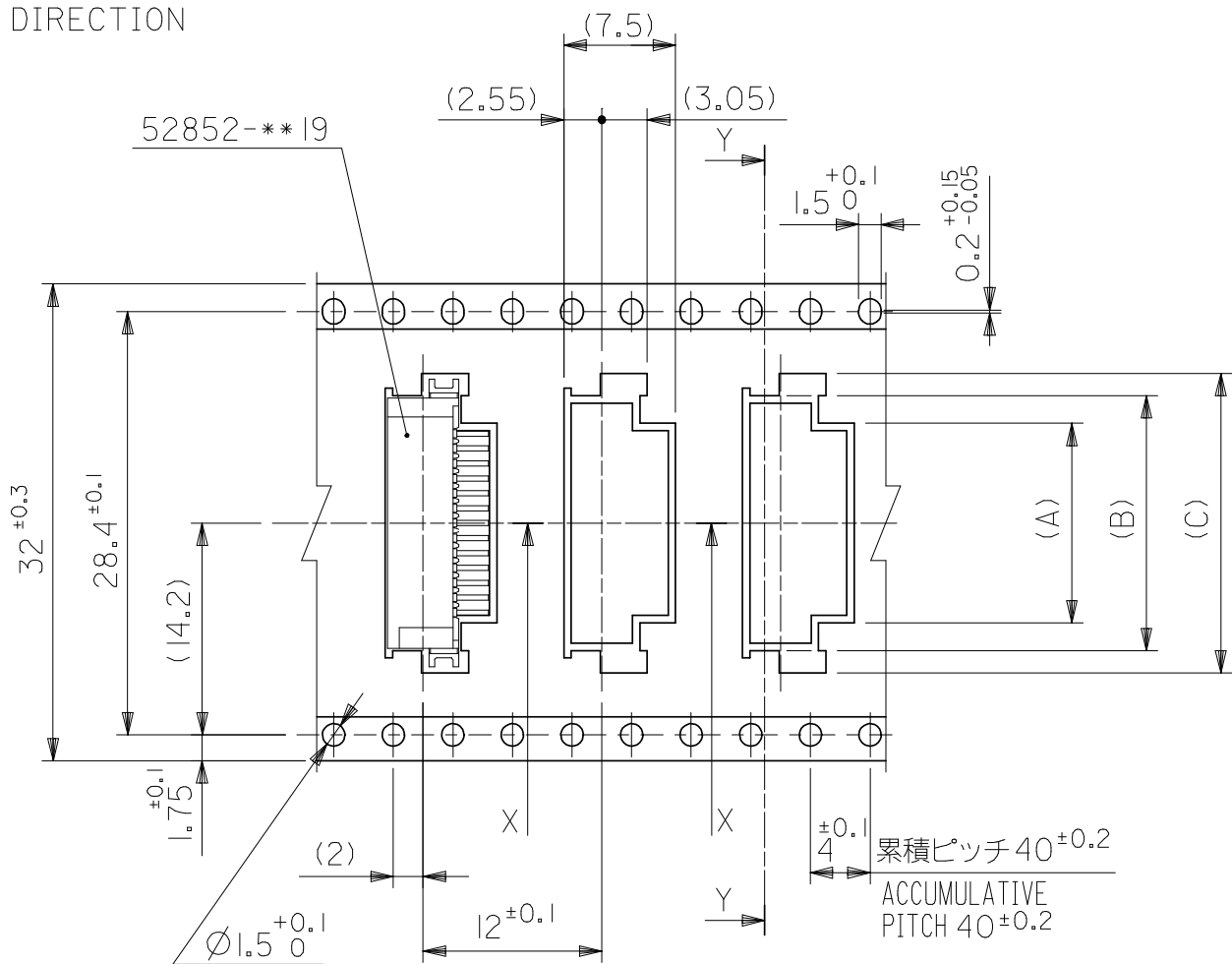
引き出し方向
PULL OUT DIRECTION

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.

REVISED EC NO: J2008-1818 DRWN:MNABEL CHKD:M. ISOGAYA 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. 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. SEE TABLE		DOCUMENT NO. SD-52852-011			SHEET NO. 3 OF 5	
	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						

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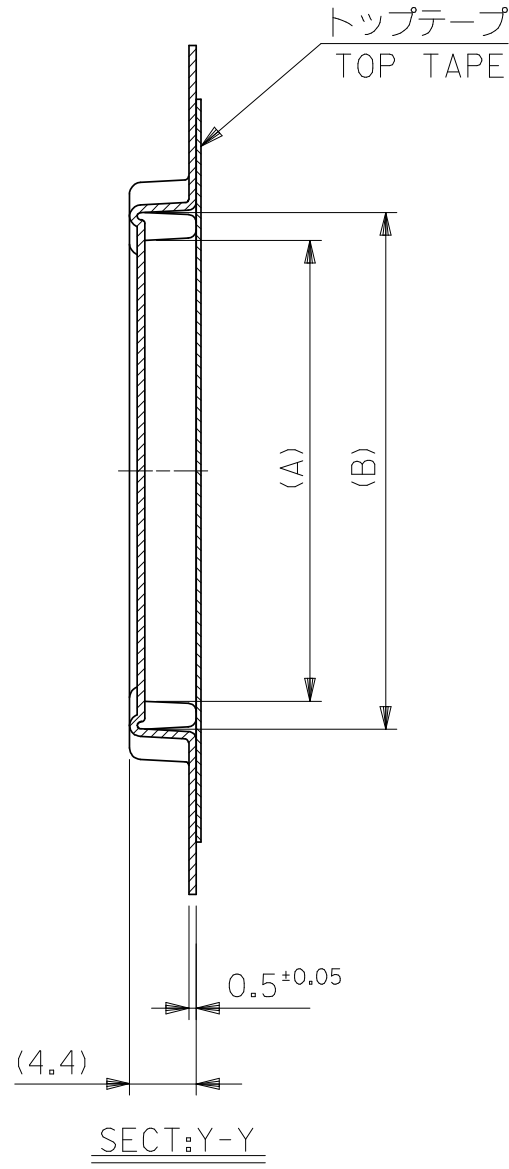
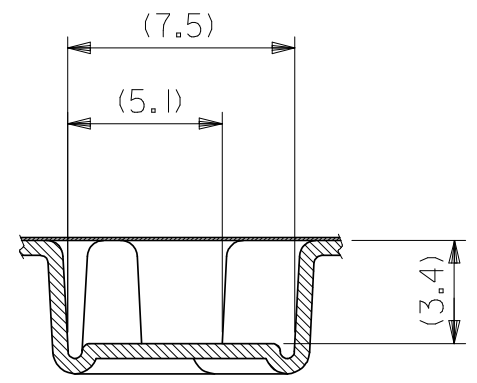
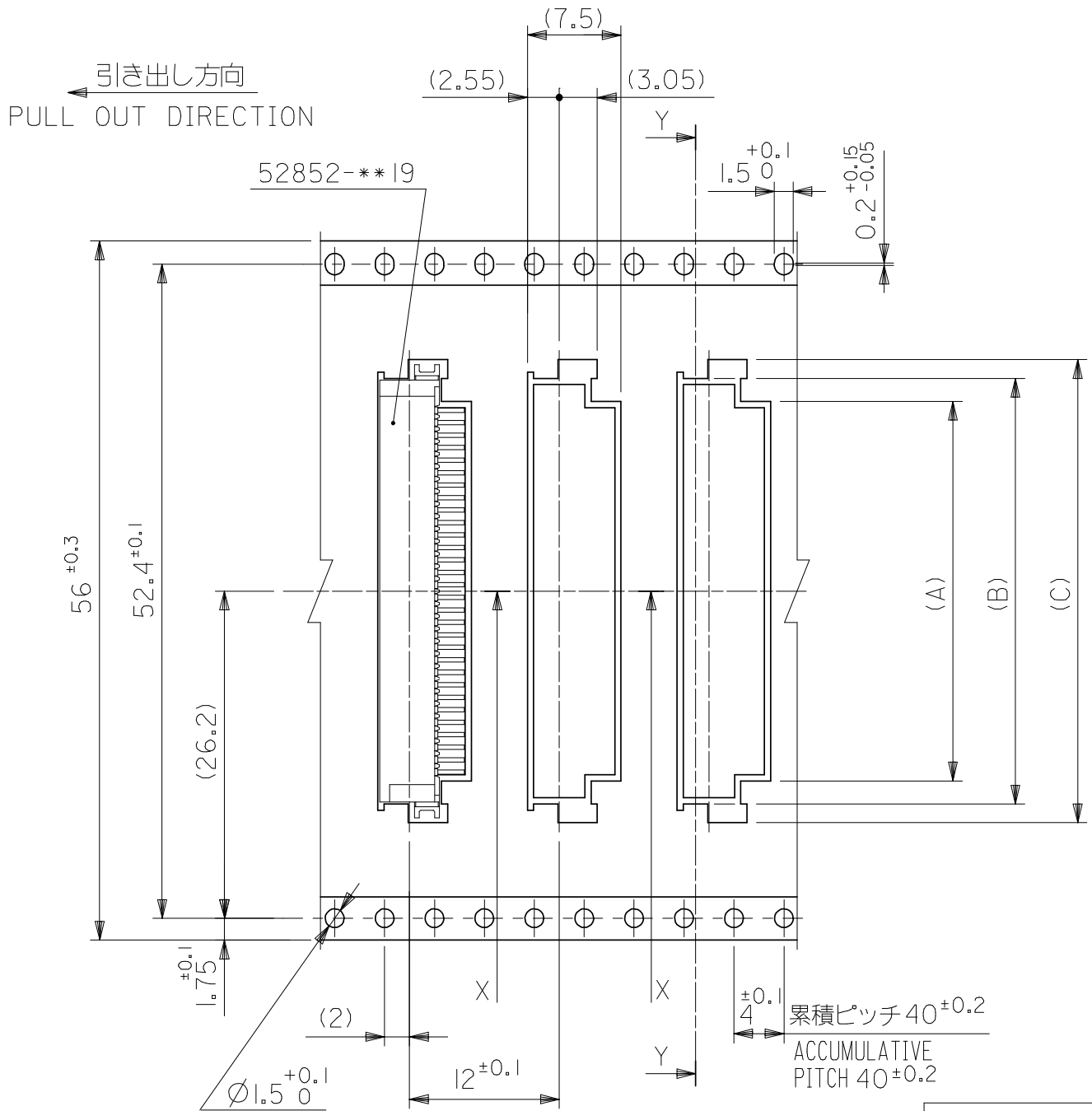
E

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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:MNABEL CH'KD:MISOGAYA APPR:NUKITA A	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	MODEL NO. DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	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	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. SEE TABLE		DOCUMENT NO. SD-52852-011			SHEET NO. 5 OF 5	
	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						



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

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