

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0528522470](#)
Status: **Active**
Overview: [ffc_fpc_smt](#)
Description: 1.00mm (.039") Pitch FFC/FPC Connector, SMT, Right Angle, Non-ZIF, Bottom Contact Style Receptacle, 24 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) 24
Circuits (maximum) 24
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

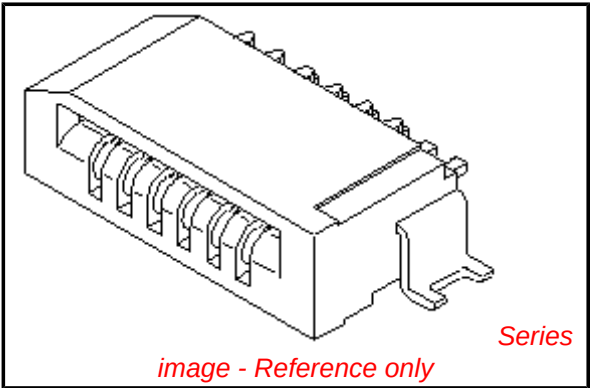


image - Reference only

EU RoHS

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

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](#)

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:

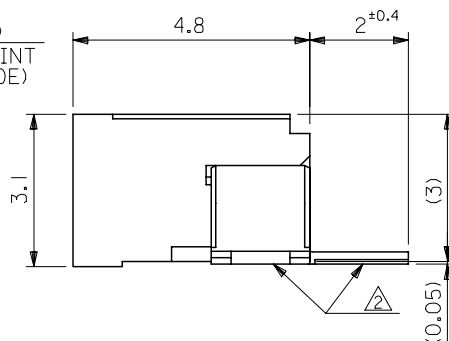
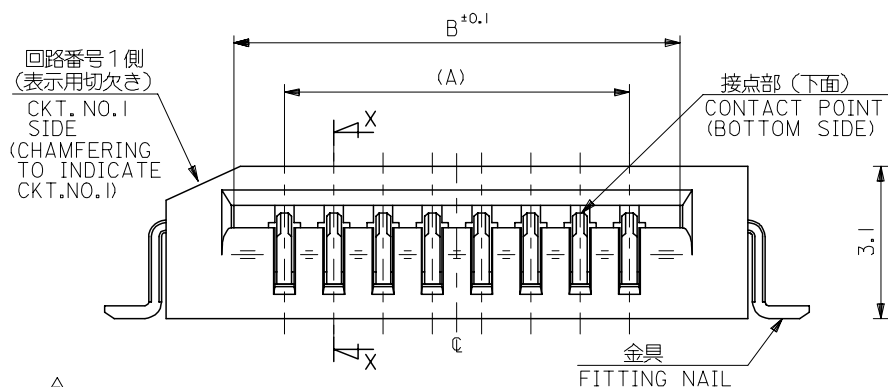
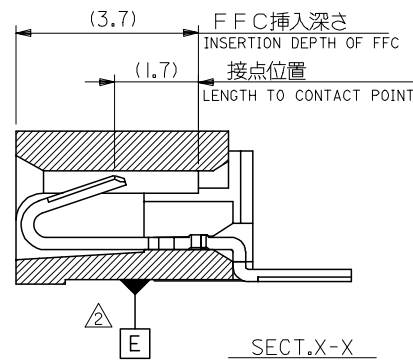
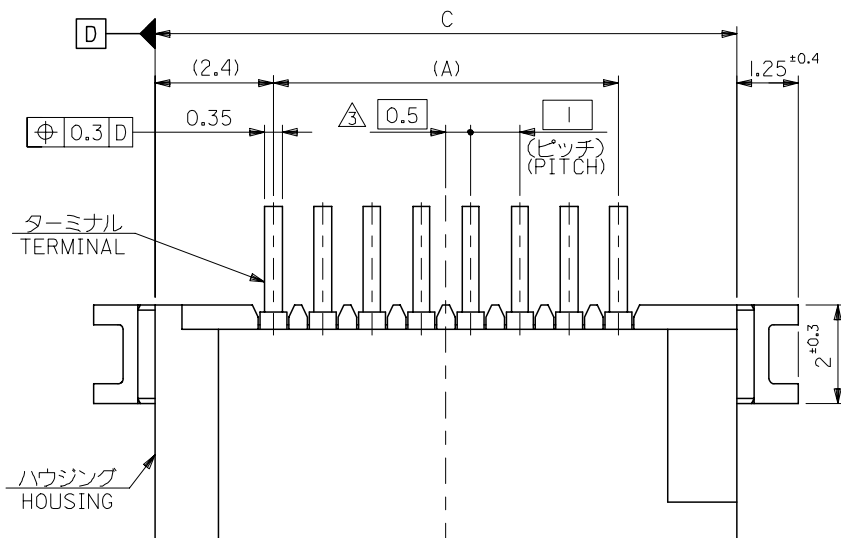
1. 使用材料

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-		
		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	
	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				



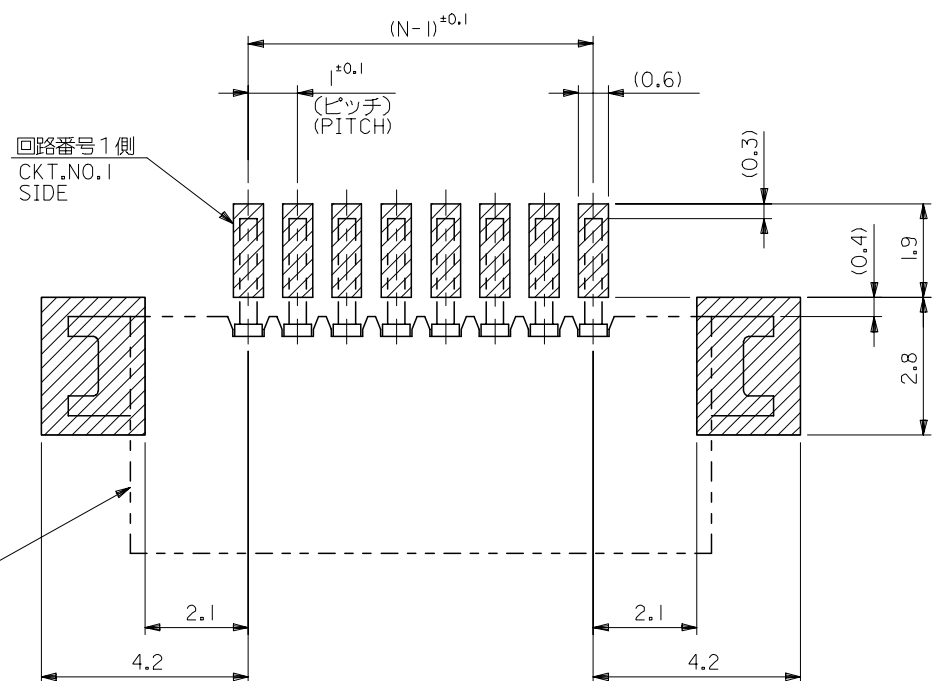
打抜き方向は導体側から補強板側を推奨いたします。

ABOUT FPC/FFC
RECOMMENDED PUNCHER DIRECTION : FROM CONDUCTOR SIDE TO STIFFENER FILM SIDE.

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）

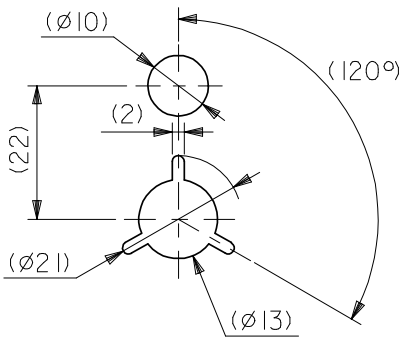
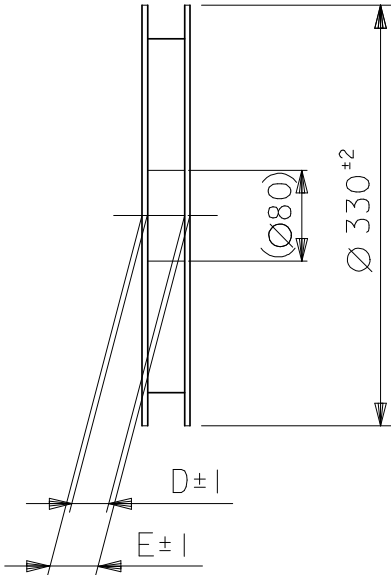
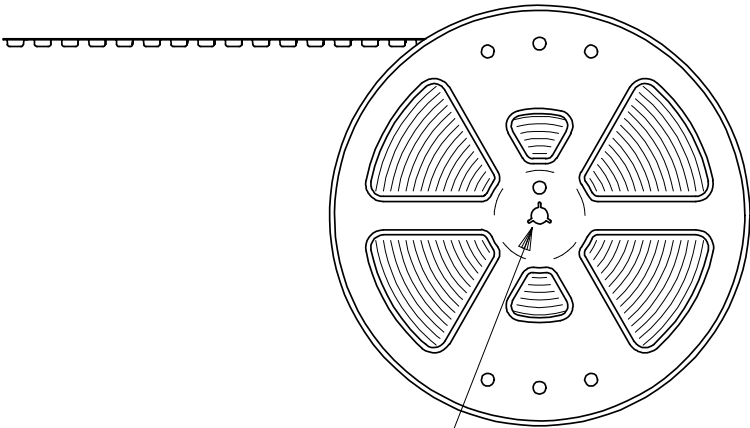
RECOMMENDED P.C.BOARD
PATTERN DIMENSION.(REF.)
(MOUNTING AREA)

REVISED	EC NO: J2005-1451	2004/11/16	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	MODEL NO.: J2052-010	THIRD ANGLE PROJECTION
	DOWNWADA	2004/11/17		10 UNDER	± 0.2	M. NAGATA	'04/02/27	TITLE 1.0 FFC CONN NON ZIF SMT RA (BOTTOM CONTACT) -LEAD FREE-	MOLEX	MOLEX INCORPORATED	SHEET NO. 2 OF 2
	CHKDKTOJO	2004/11/17		10 OVER 30 UNDER	± 0.25	K. TOJO	'04/02/27				
	APPR: NUKITA	2004/11/26		30 OVER	± 0.3	APPROVED BY M. SASAO	'04/02/27				
	A	REV		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3		SEE CHART		SD-52852-010			
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											

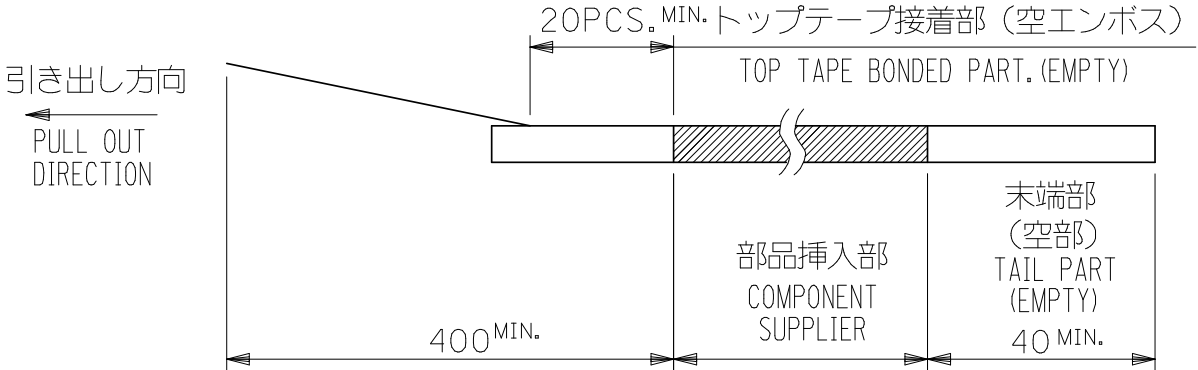
NOTES

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

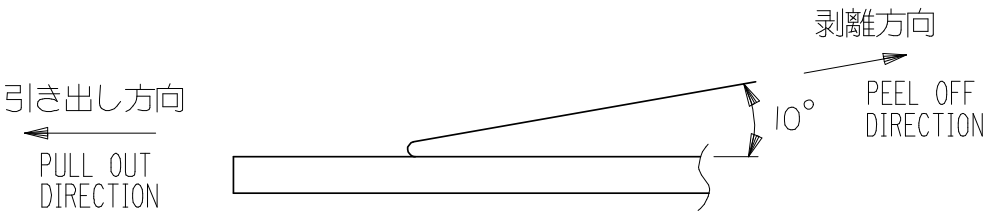
引き出し方向
PULL OUT DIRECTION



DETAIL "F"

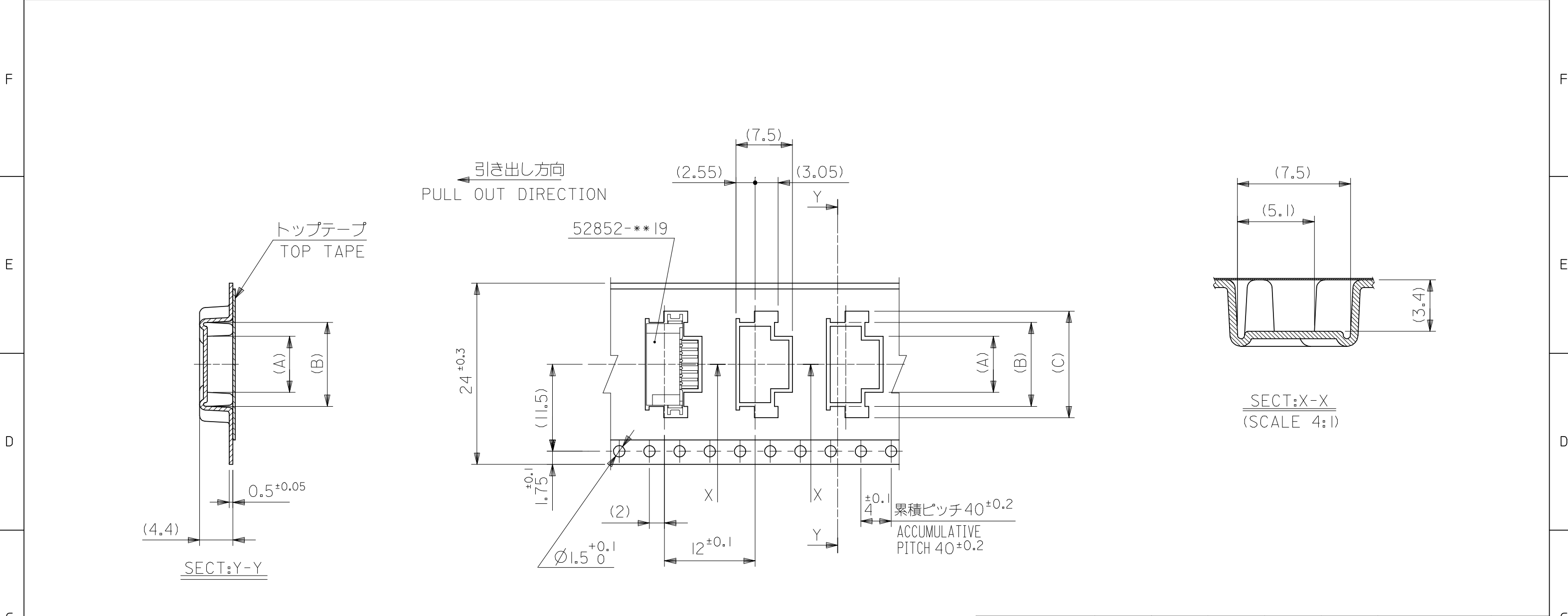


4. トップテープの剥離強度：0.1～1.3N(10 ～ 130gf)
(剥離方向は下図参照)
尚、本規格値は出荷時に適用。(但し、輸送時に剥離が発生しないこと。)
PEELING OFF FORCE OF TOP TAPE：0.1～1.3N(10 ～ 130gf)
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)
THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT.
PEEL OFF SHOULD NOT BE ALLOWED , DURING TRANSPORTATION.



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 MM ONLY		SCALE ---	DESIGN UNITS METRIC	MODEL NO. 52852-**70	THIRD ANGLE PROJECTION	
			10 UNDER ± 0.2		DRAWN BY DATE M. NAGATA '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 DATE K. TOJO '04/02/27						
			30 OVER ± 0.3		APPROVED BY DATE M. SASAO '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

C

B

B

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.

24mm幅キャリアテープ
24mm WIDTH CARRIER TAPE

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

2007/11/12
2007/11/13
2007/11/26

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
A3

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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

52852-***70

THIRD ANGLE
PROJECTION

DOCUMENT NO.
SD-52852-011

SHEET NO.
2 OF 5

F

E

D

C

B

A

F

E

D

C

B

A

引き出し方向
PULL OUT DIRECTION

52852-**-19

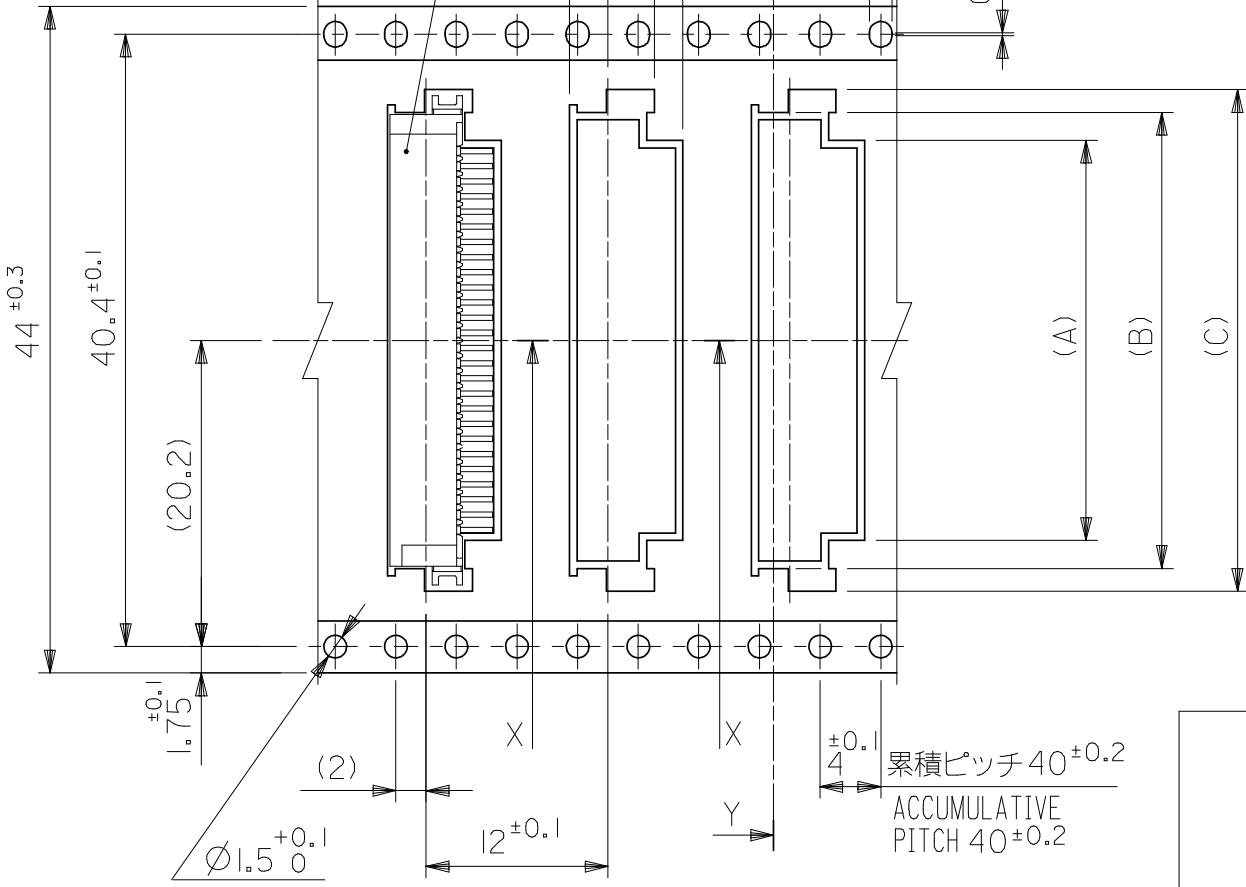
トップテープ
TOP TAPE

(7.5)

(5.1)

(3.4)

SECT:X-X
(SCALE 4:1)



0.5 ±0.05

(4.4)

SECT:Y-Y

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: MNABEL
CHKD: M. ISOGAYA
APPR: NUKITA

2007/11/12
2007/11/13
2007/11/26

DESCRIPTION

REV

A

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

CHECKED BY
K. TOJO

APPROVED BY
M. SASAO

MATERIAL NO.
SEE TABLE

DATE
'04/02/27

DATE
'04/02/27

DATE
'04/02/27

SIZE
A3

SCALE

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

MOLEX INCORPORATED

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MODEL NO.
52852-**-70

DESIGN UNITS
METRIC

THIRD ANGLE
PROJECTION

DOCUMENT NO.
SD-52852-011

SHEET NO.
4 OF 5

F

E

D

C

B

A

F

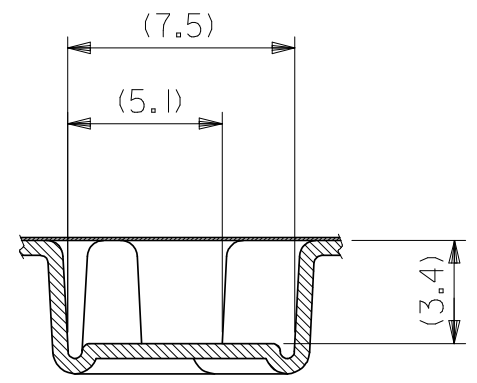
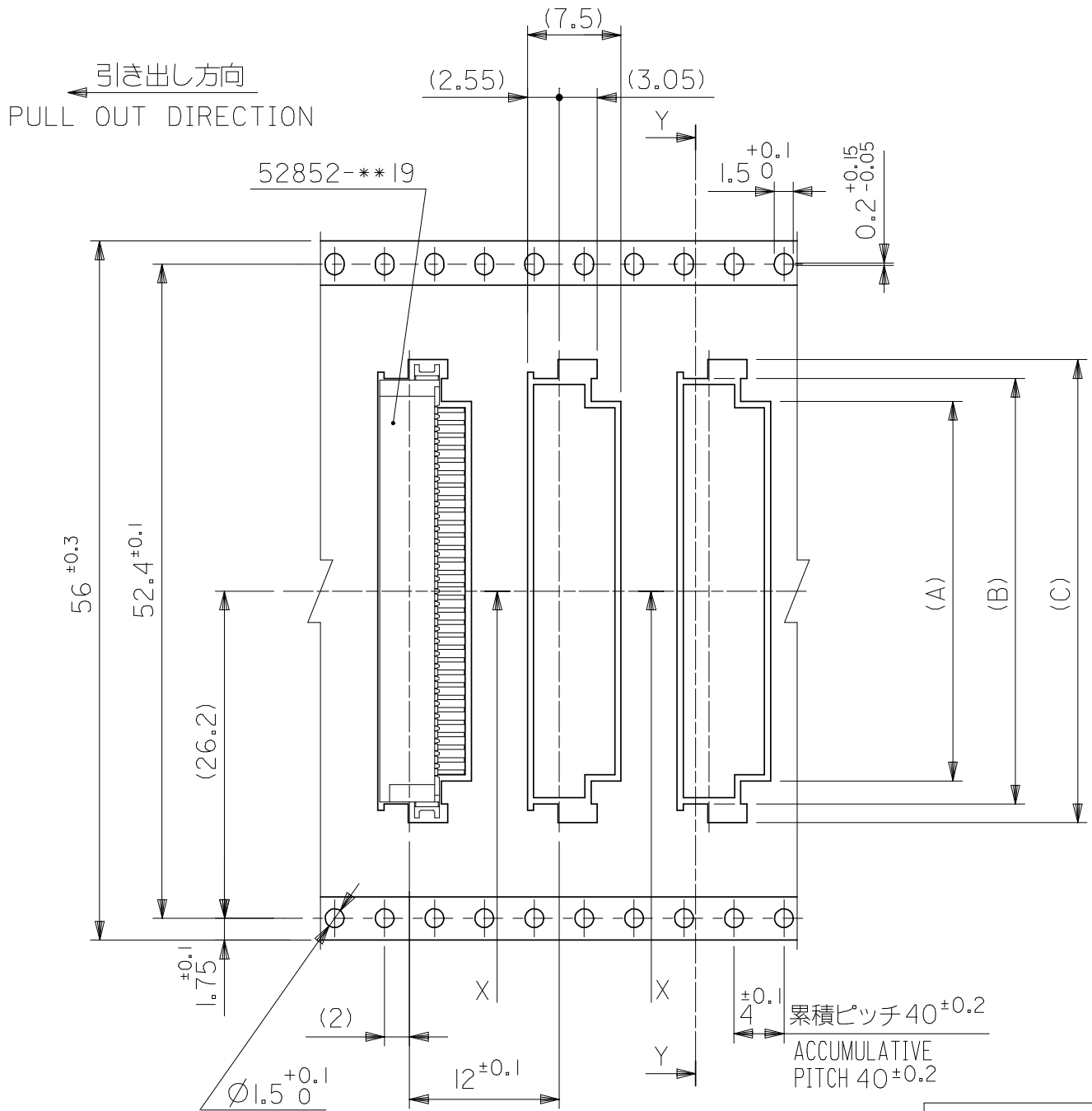
E

D

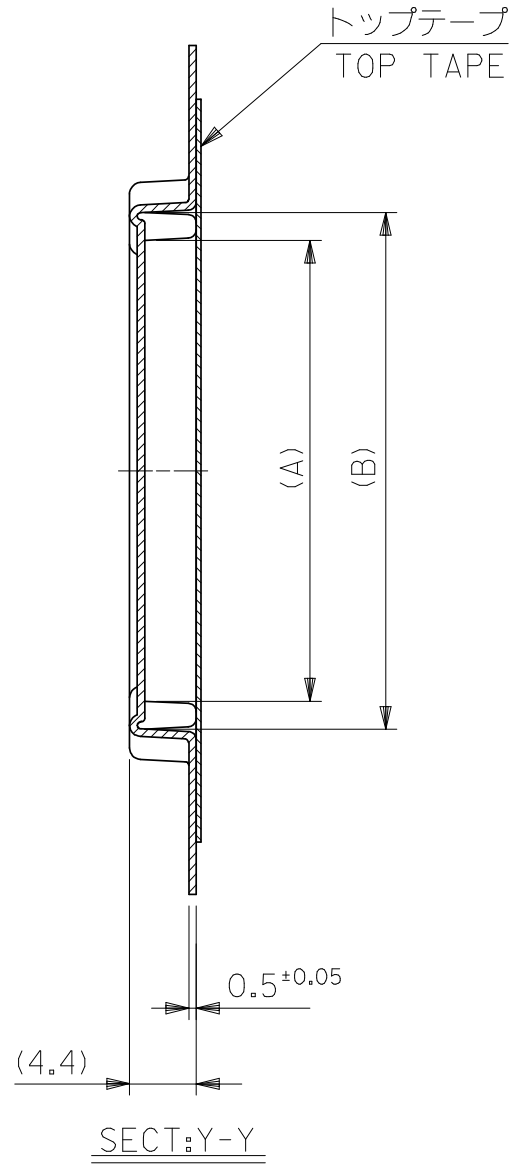
C

B

A



SECT:X-X
(SCALE 4:1)



SECT:Y-Y

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 CH'KD:MISOGAYA APPR:NUKITA	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	
	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								
A	REV									