

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0528520970

Status:

Active

Overview:

Description:

1.00mm (.039") Pitch FFC/FPC Connector, SMT, Right Angle, Non-ZIF, Bottom Contact Style Receptacle, 9 Circuits, Lead-free

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

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)	9
Circuits (maximum)	9
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
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
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
Product Specification	PS-52852-014, RPS-52852-017, RPS-52852-018, RPS-52852-019, RPS-52852-022, RPS-52852-023, RPS-52852-025
Sales Drawing	SD-52852-010, SD-52852-011

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:

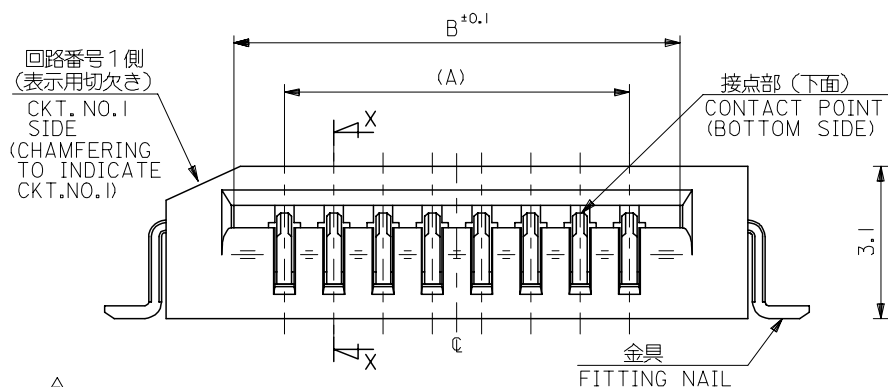
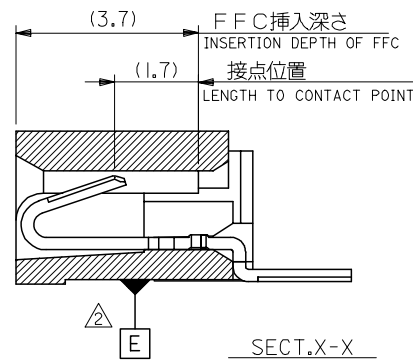
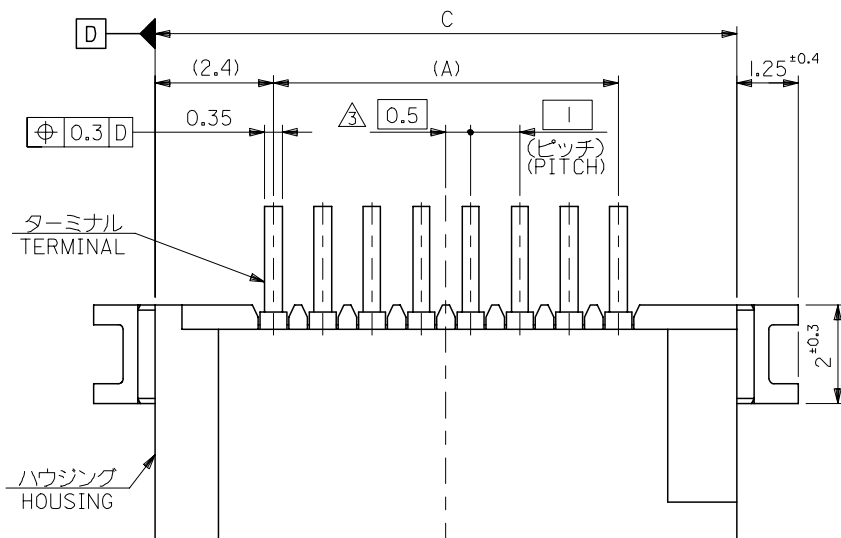
1. 使用材料

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.

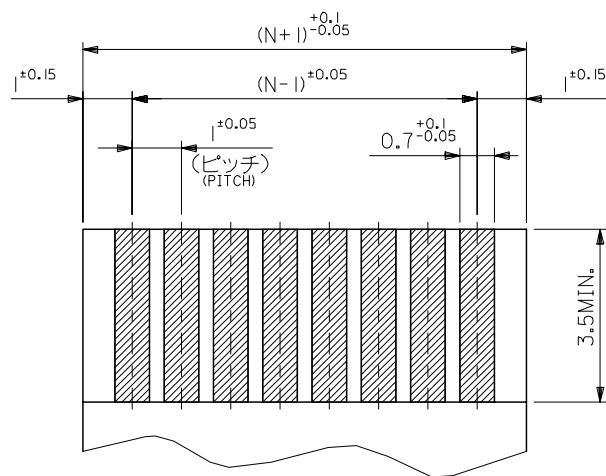


33.8	31.05	29	52852-3019	30
32.8	30.05	28	-2919	29
31.8	29.05	27	-2819	28
30.8	28.05	26	-2719	27
29.8	27.05	25	-2619	26
28.8	26.05	24	-2519	25
27.8	25.05	23	-2419	24
26.8	24.05	22	-2319	23
25.8	23.05	21	-2219	22
24.8	22.05	20	-2119	21
23.8	21.05	19	-2019	20
22.8	20.05	18	-1919	19
21.8	19.05	17	-1819	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 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				MOLEX MOLEX INCORPORATED
		ANGULAR ±3 °		MATERIAL NO. SEE CAHRT		DOCUMENT NO. SD-52852-010			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS							
	REV 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.

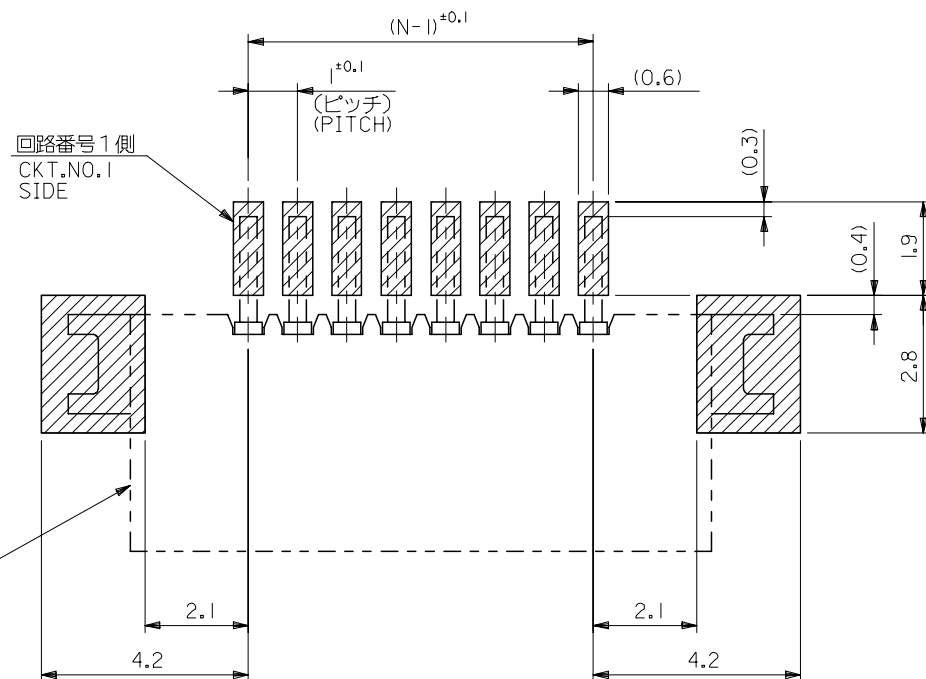
FPCについて:

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)

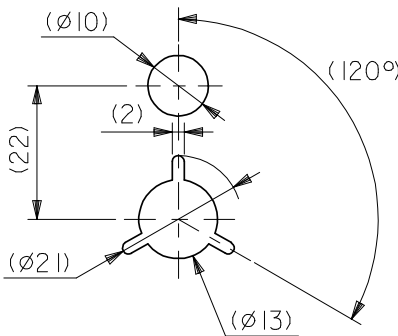
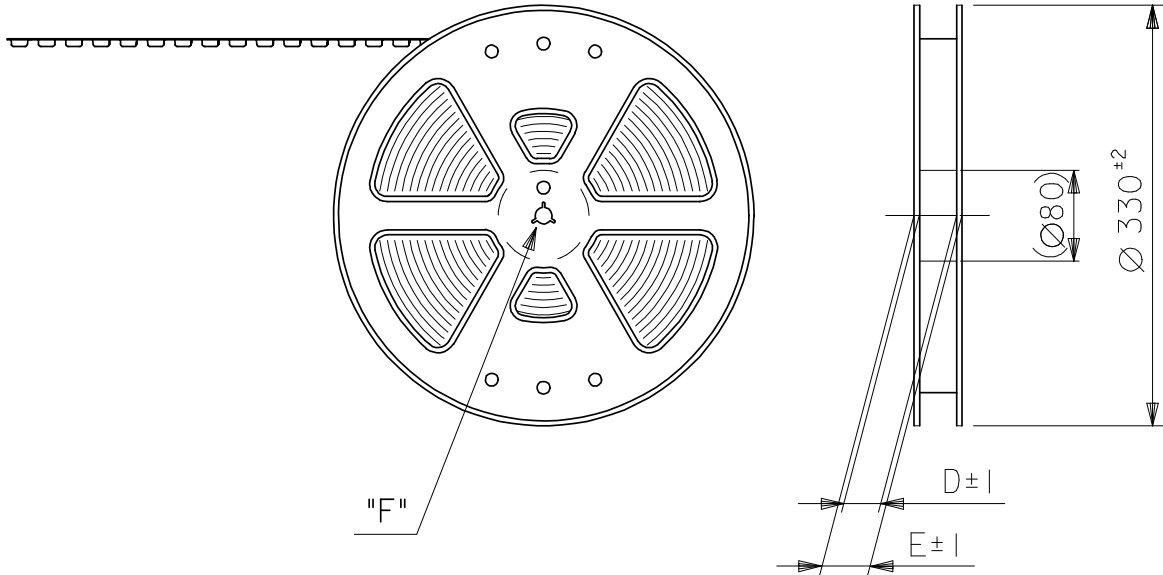
RECOMMENDED P.C.BOARD
PATTERN DIMENSION. (REF.)
(MOUNTING AREA)

REVISED		EC NO: J2005-1451		2004/11/16		2004/11/17		2004/11/26		DESCRIPTION		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---		DESIGN UNITS METRIC		MODEL NO. 52852-***19		THIRD ANGLE PROJECTION	
DRAWN BY		DATE		TITLE		DRAWN BY		DATE		TITLE		10 UNDER		M. NAGATA		'04/02/27		1.0 FFC CONN NON ZIF SMT		RA (BOTTOM CONTACT)		-LEAD FREE-	
CHECKED BY		DATE		CHECKED BY		DATE		DATE		DATE		10 OVER 30 UNDER		K. TOJO		'04/02/27		MOLEX INCORPORATED		SHEET NO.		2 OF 2	
APPROVED BY		DATE		APPROVED BY		DATE		DATE		DATE		30 OVER		M. SASAO		'04/02/27		SD-52852-010		2 OF 2		2 OF 2	
MATERIAL NO.		DOCUMENT NO.		MATERIAL NO.		DOCUMENT NO.		DATE		DATE		ANGULAR		SEE CHART		SD-52852-010		SD-52852-010		2 OF 2		2 OF 2	
SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		DATE		DATE		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		A3		SD-52852-010		SD-52852-010		2 OF 2		2 OF 2	

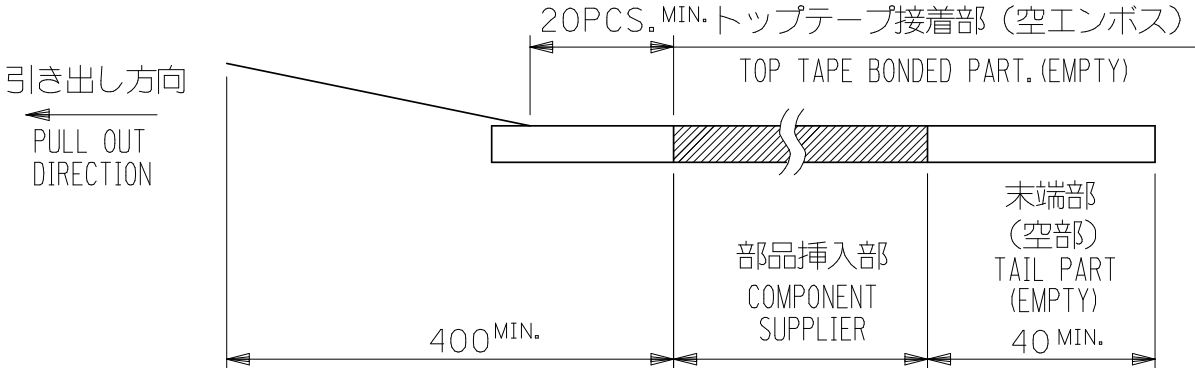
NOTES

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

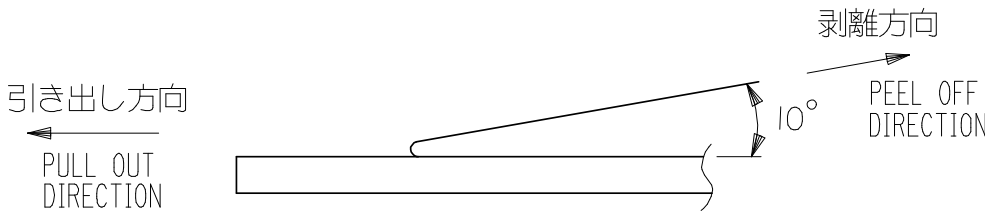
引き出し方向
PULL OUT DIRECTION



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:MNABEL 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	
					DRAWN BY M. NAGATA DATE '04/02/27		TITLE 1.0 FPC CONN NON ZIF SMT RA BOTTOM CONTACT EMBSTP -LEAD FREE-					
			CHECKED BY K. TOJO DATE '04/02/27									
			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				1 OF 5	
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												

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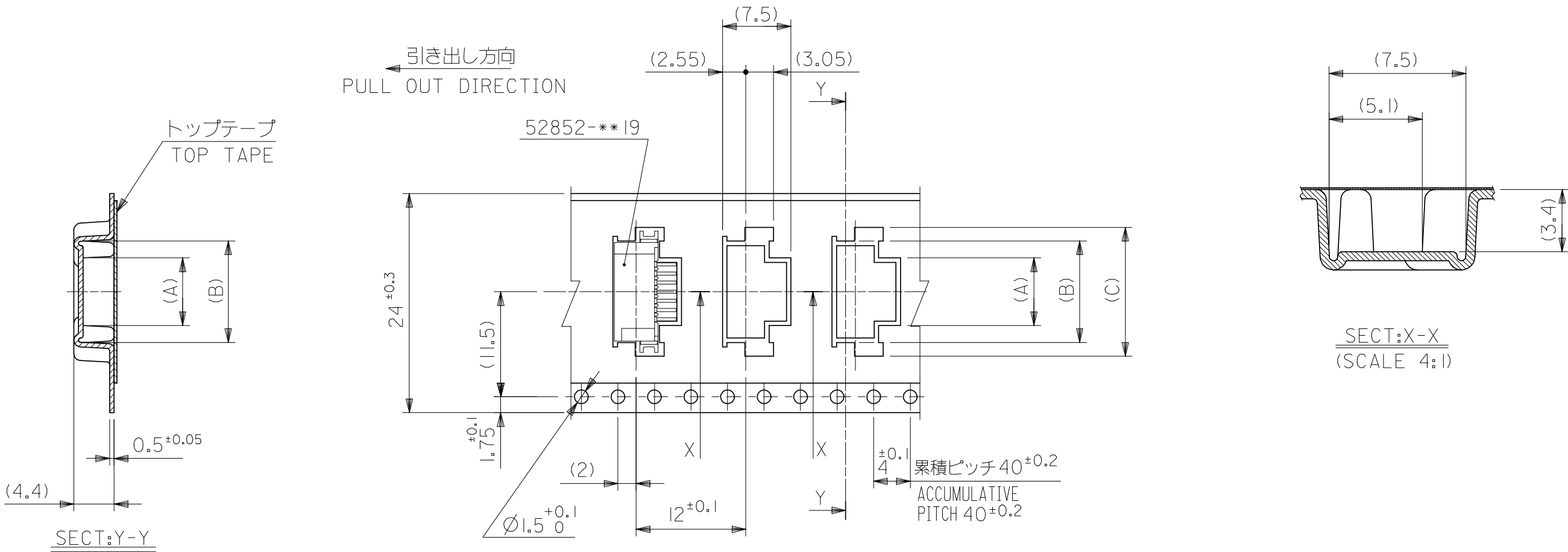
E

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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	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					2 OF 5
	REV			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

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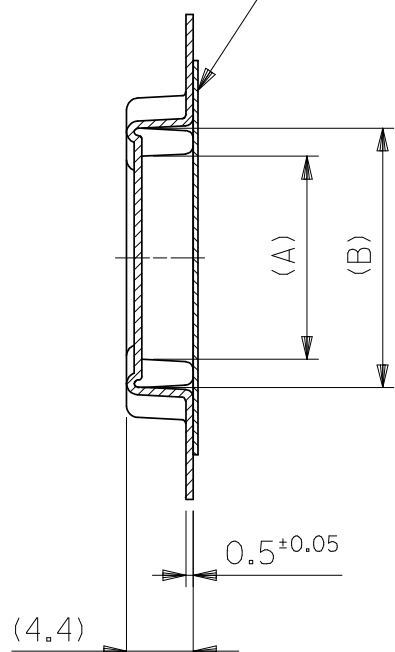
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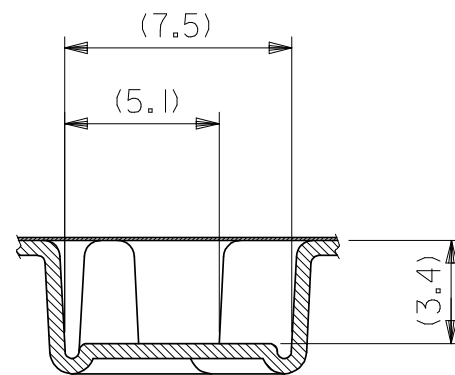
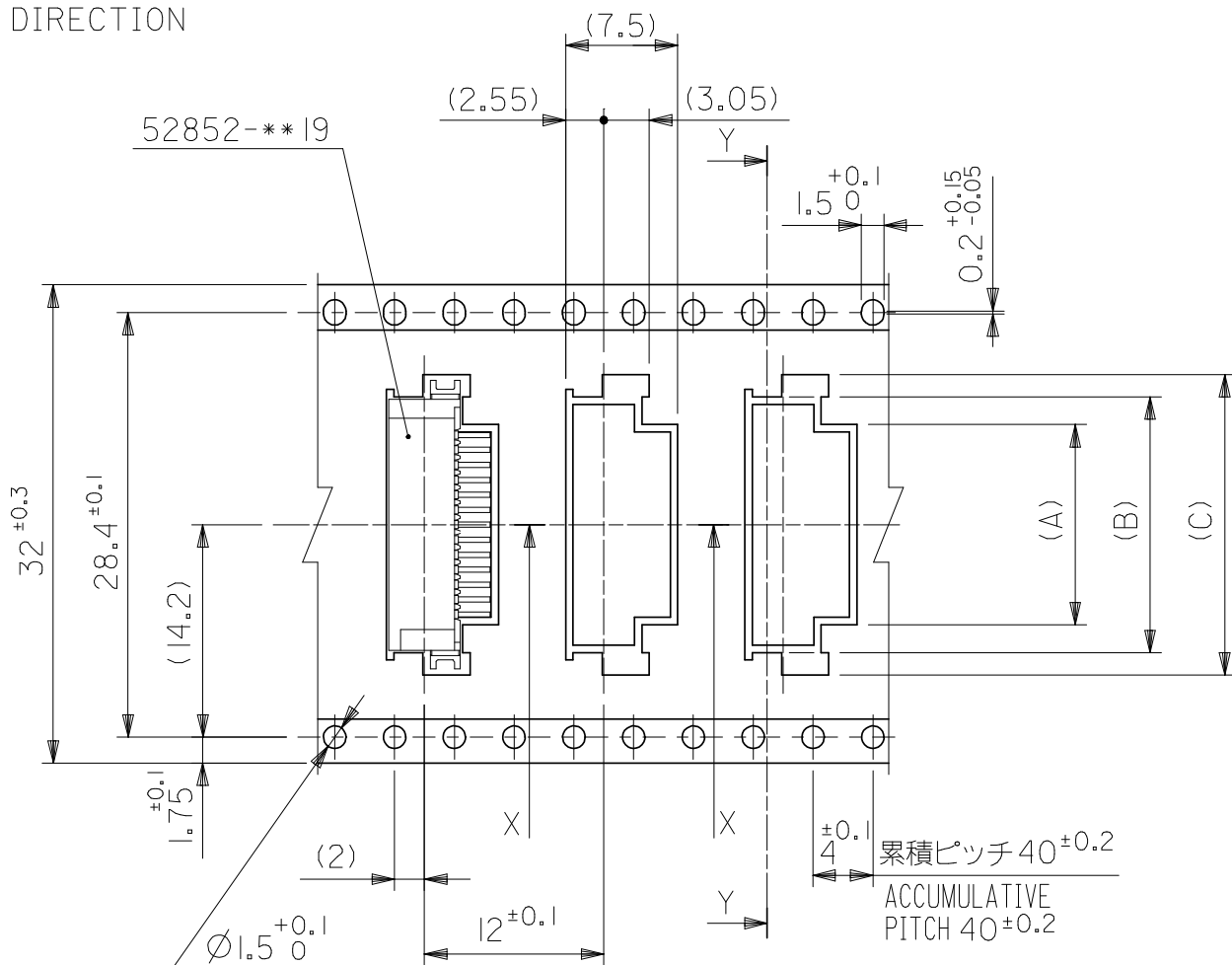
引き出し方向
PULL OUT DIRECTION

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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引き出し方向
PULL OUT DIRECTION

52852-**-19

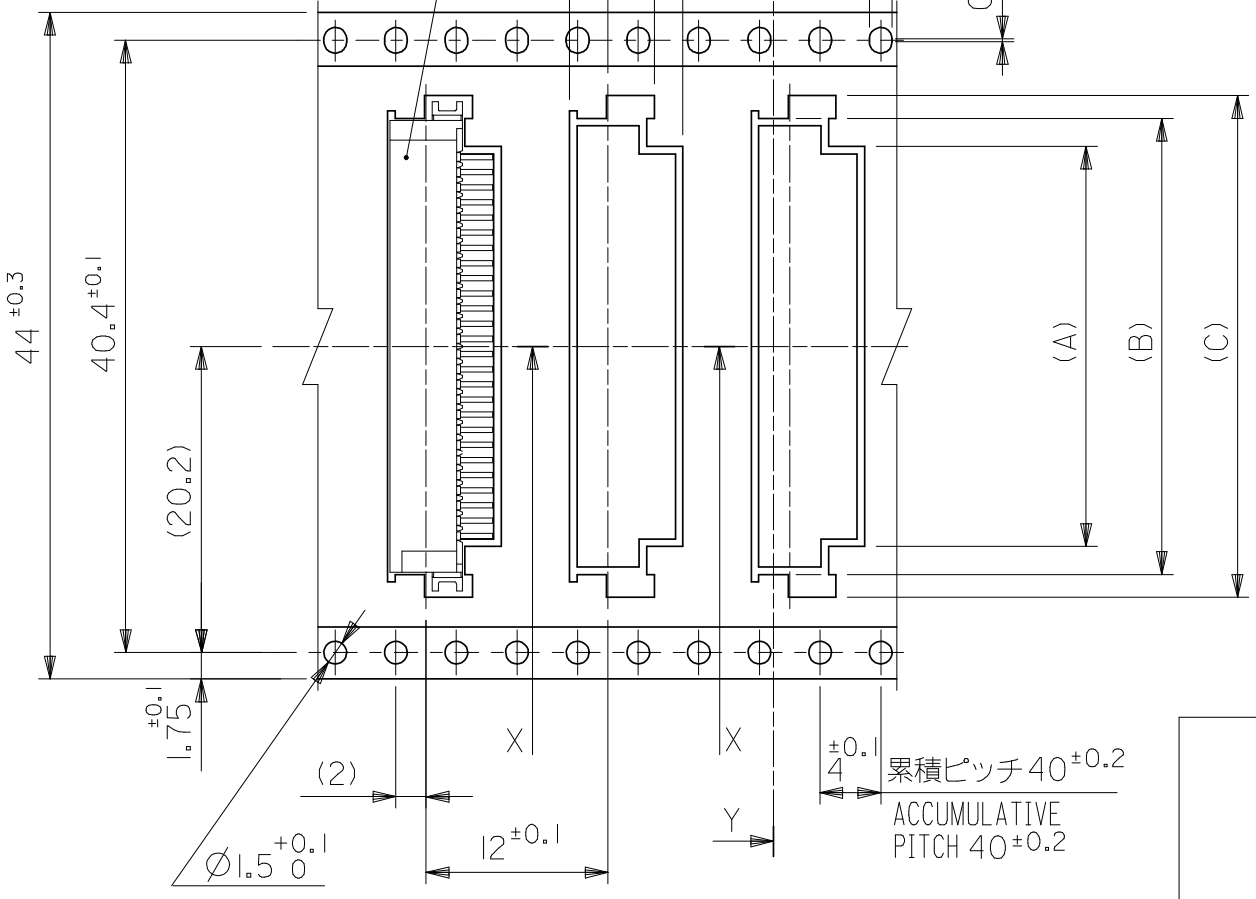
トッパートープ
TOP TAPE

(7.5)

(5.1)

(3.4)

SECT:X-X
(SCALE 4:1)



0.5 ±0.05

(4.4)

SECT:Y-Y

±0.1
1.75
Ø1.5 ±0.1
(2)

X
12 ±0.1

X
Y

±0.1
4
累積ピッチ 40 ±0.2
ACCUMULATIVE
PITCH 40 ±0.2

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: MNABEI

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

SIZE A 3

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

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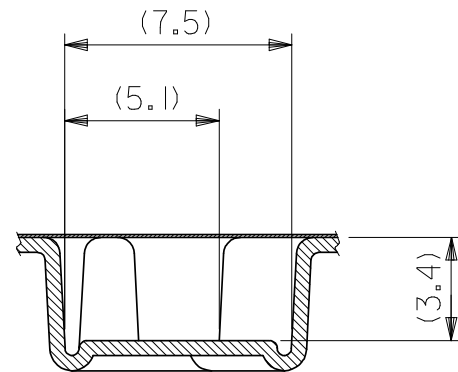
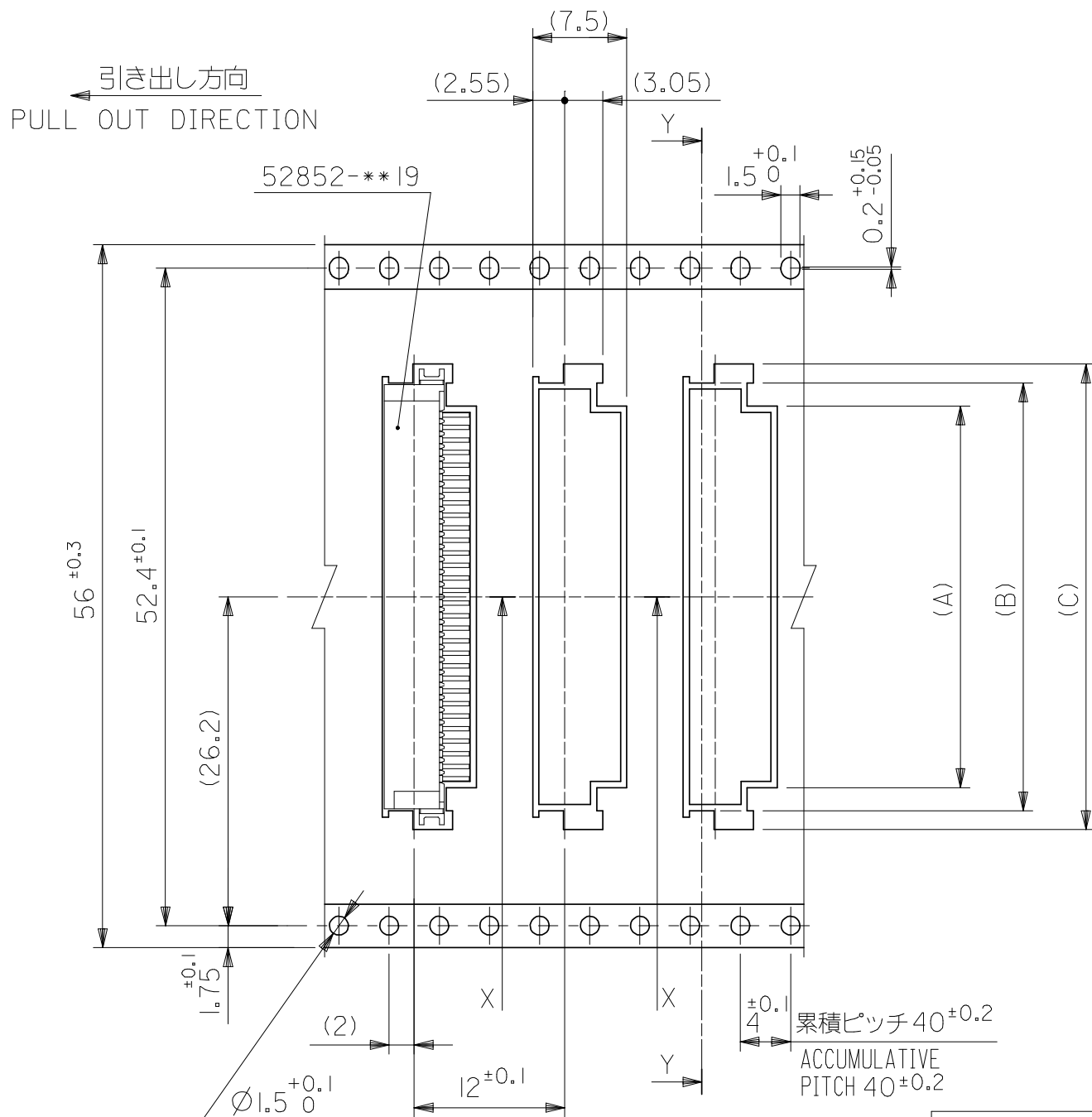
D

C

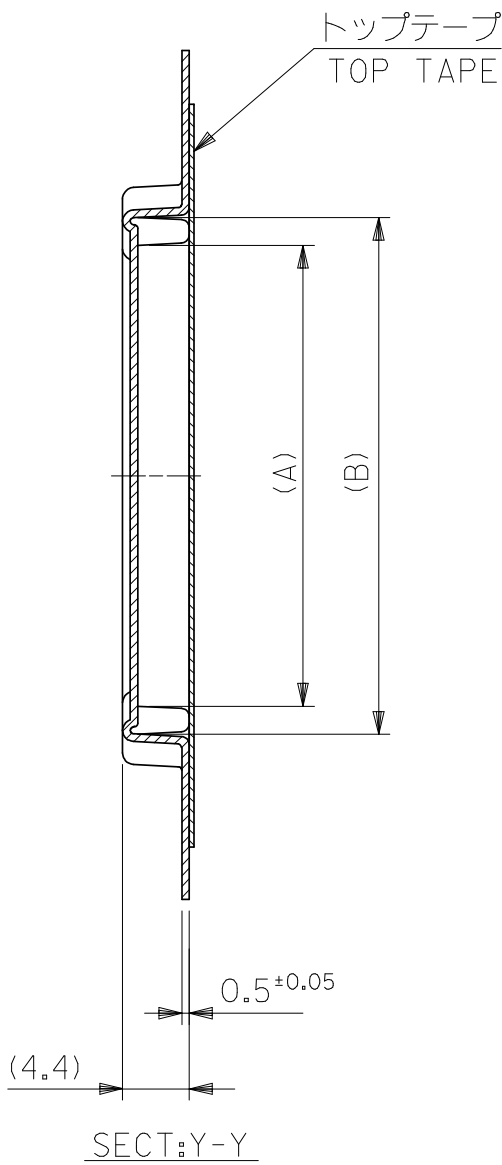
B

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F



SECT:X-X
(SCALE 4:1)



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 CHKD: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	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 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 A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

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