This document was generated on 06/05/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0528520870
Status: Active
Overview:
Description: 1.00mm (.039") Pitch FFC/FPC Connector, SMT, Right Angle, Non-ZIF, Bottom Contact Style Receptacle, 8 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)	8
Circuits (maximum)	8
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

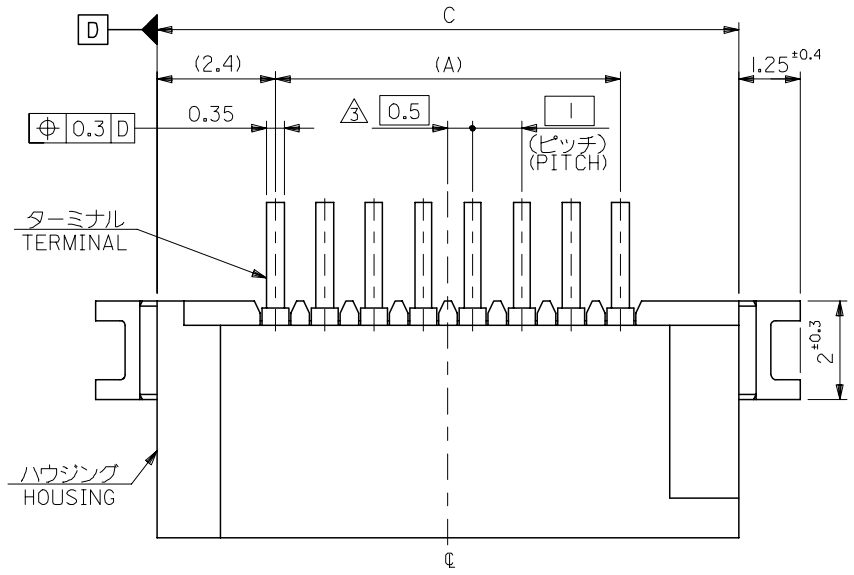
Please visit the Contact Us section for any non-product compliance questions.

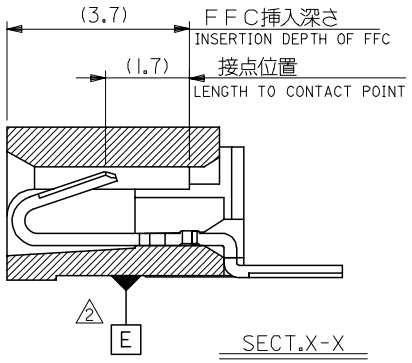
Search Parts in this Series
52852Series

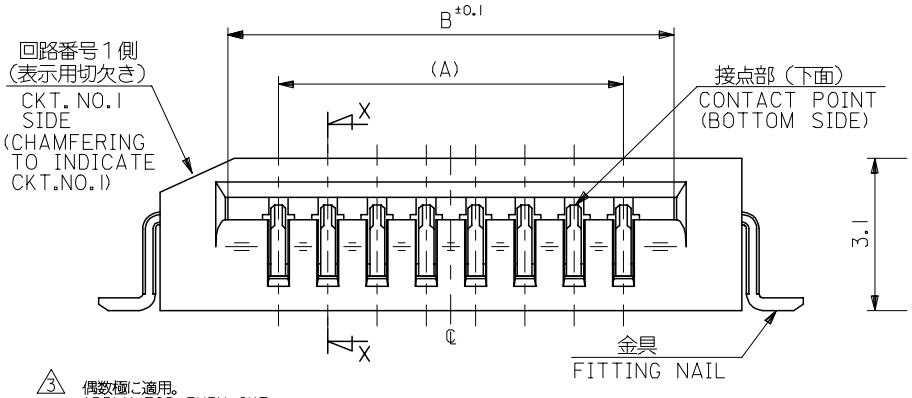
Product Specification	PS-52852-014, RPS-52852-017, RPS-52852-018, RPS-52852-019, RPS-52852-022, RPS-52852-023, RPS-52852-025
Sales Drawing	SD-52852-010, SD-52852-011

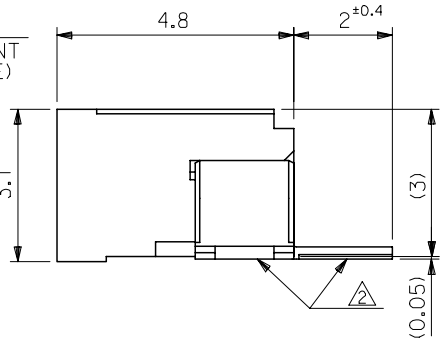
This document was generated on 06/05/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION









注記 NOTES:

1. 使用材料 MATERIAL

ハウジング：	PPS,UL94V-0	HOUSING	: PPS, UL94V-0
ターミナル：リン青銅	(t=0.25)	TERMINAL	: PHOSPHOR BRONZE
メッキ：ニッケル下地錫ビスマスメッキ		PLATING	: TIN-BISMUTH OVER NICKEL
金具：リン青銅	(t=0.25)	FITTING NAIL	: PHOSPHOR BRONZE
メッキ：ニッケル下地錫メッキ		PLATING	: TIN OVER NICKEL

2. 基準面 E からのソルダーテ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.

3. 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

C	B	A	MATERIAL NO.	極数 CIRCUIT
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

MODEL NO. 52852-**19

REVISED
EC NO: J2005-1451 2004/11/16
DRWN:NAIDA 2004/11/17
CHKD:KTOJO 2004/11/26
APPR:NUKITA
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
SCALE	---
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
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 CAHRT
TITLE	1.0 FFC CONN NON ZIF SMT RA (BOTTOM CONTACT) -LEAD FREE-
	MOLEX INCORPORATED
DOCUMENT NO.	SD-52852-010
SHEET NO.	1 OF 2
SIZE	A3

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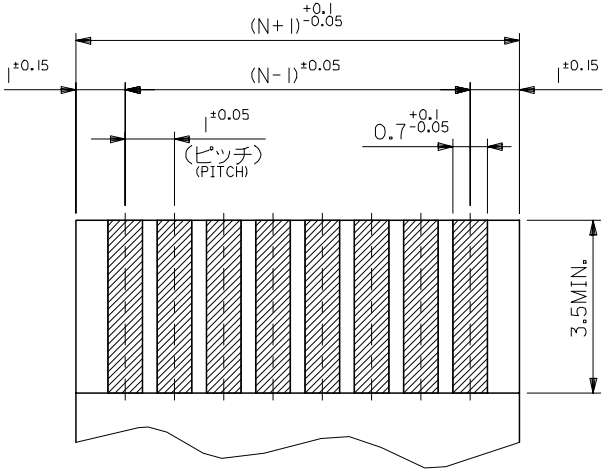
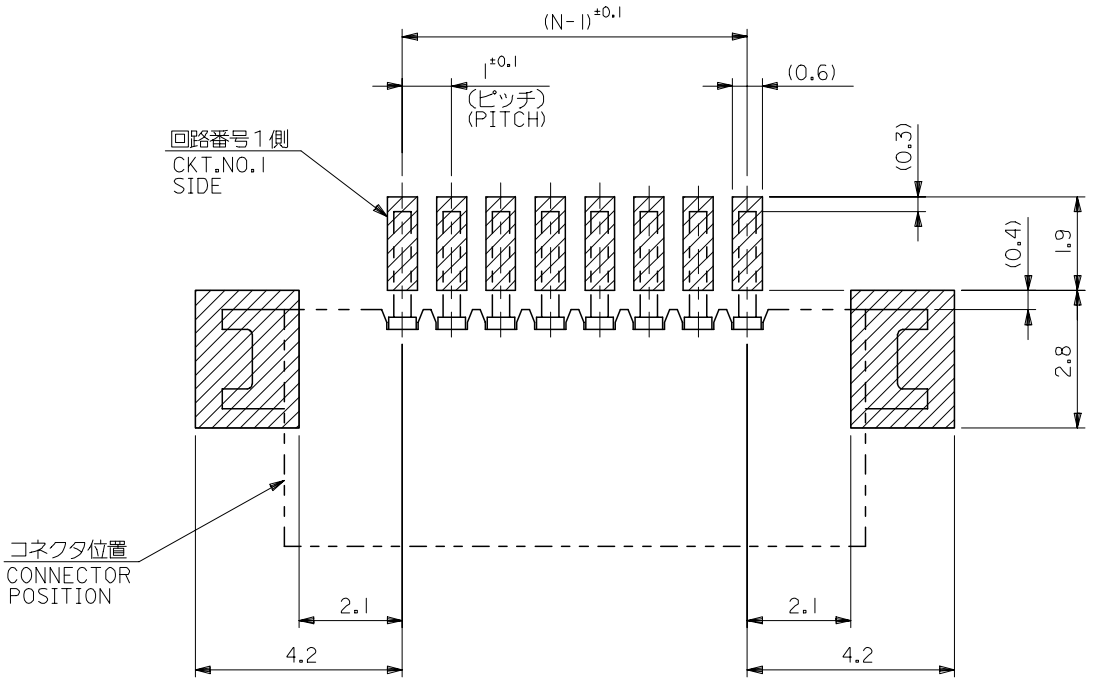


(仕上がり厚さ0.3 ±0.03 THICKNESS)

適合ＦＰＣ／ＦＦＣ推奨寸法

APPLICABLE FPC/FFC RECOMMENDED DIMENSION.



参考基板レイアウト（マウント面）

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

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

MODEL NO.	52852-**19

REVISED
EC NO: J2005-1451 2004/11/16
DRWN:NAIDA 2004/11/17
CHKD:KTOJO 2004/11/26
APPR:NUKITA
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	SCALE: ---	DESIGN UNITS: METRIC	THIRD ANGLE PROJECTION
DRAWN BY: M.NAGATA	DATE: '04/02/27	TITLE: 1.0 FFC CONN NON ZIF SMT RA (BOTTOM CONTACT) -LEAD FREE-	
CHECKED BY: K.TOJO	DATE: '04/02/27		
APPROVED BY: M.SASAO	DATE: '04/02/27	MOLEX INCORPORATED	
MATERIAL NO.: SEE CHART		DOCUMENT NO.: SD-52852-010	SHEET NO.: 2 OF 2

SIZE A3

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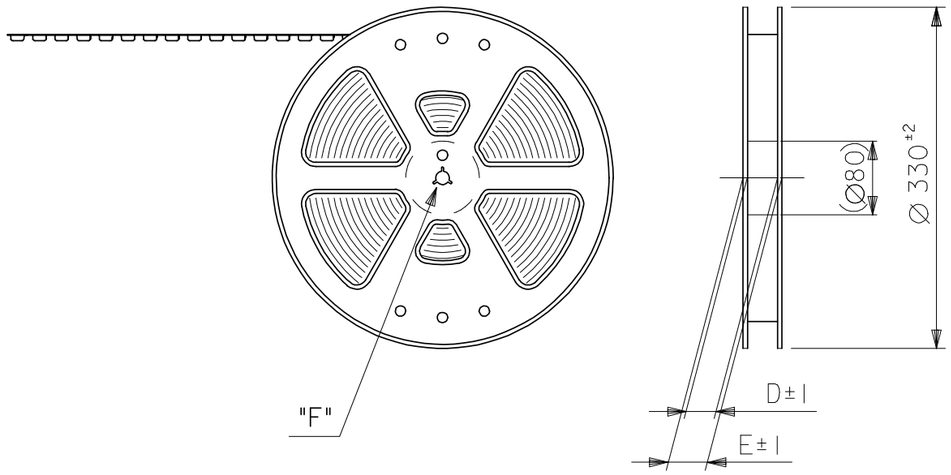
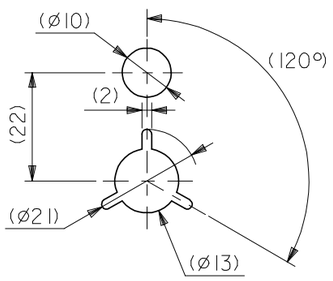
引き出し方向
PULL OUT DIRECTION

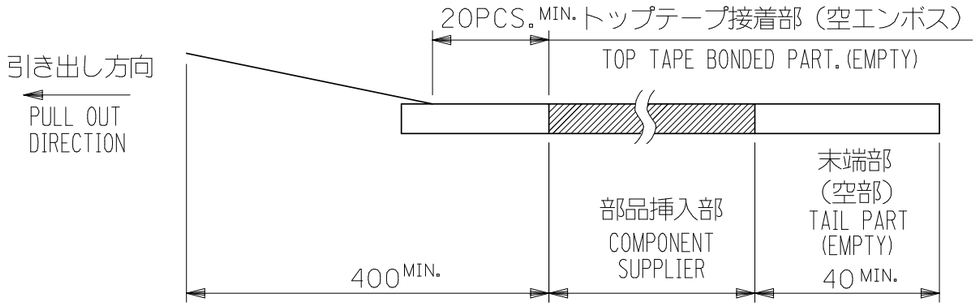




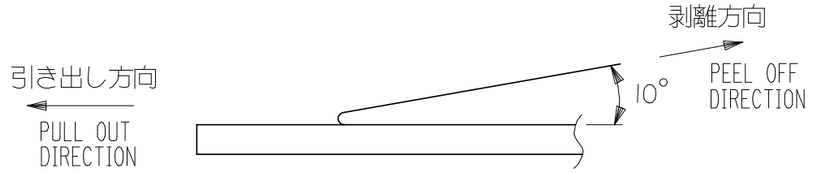
DETAIL "F"

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



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（ＰＳ）<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			REV
EC NO: J2008-1818	2007/11/12	DESCRIPTION	A
DRWN:MNABEI	2007/11/13		
CH'KD:MISOGAYA	2007/11/26		
APPR:NUKITA			

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	SCALE: ---	DESIGN UNITS: METRIC
		THIRD ANGLE PROJECTION
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		

MODEL NO. 52852-**70

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

MOLEX INCORPORATED

DOCUMENT NO.: SD-52852-011

SHEET NO.: 1 OF 5

SIZE A3

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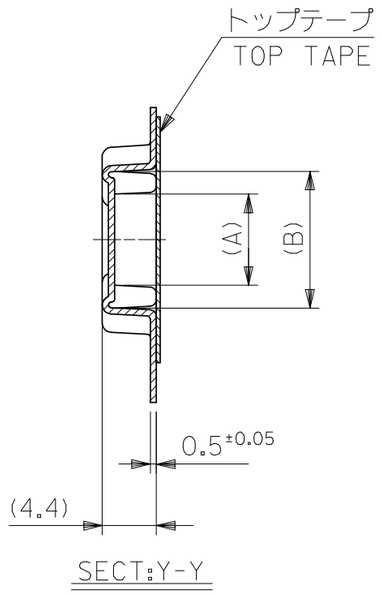
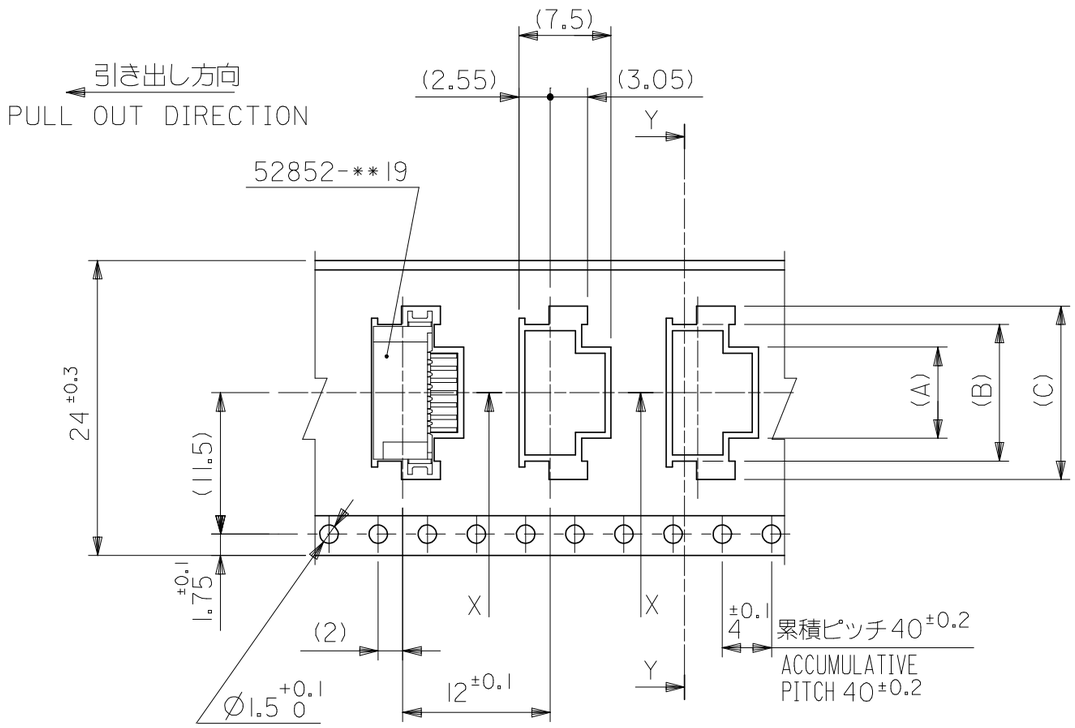
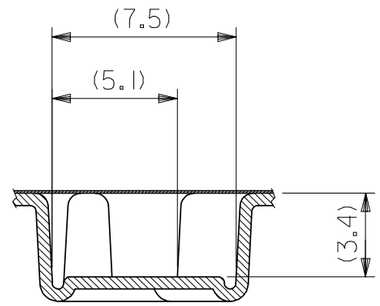


SECT:Y-Y





SECT:X-X
(SCALE 4:1)

24mm幅キャリアテープ
24mm WIDTH CARRIER TAPE

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

MODEL NO. 52852-**70

REVISED
EC NO: J2008-1818 2007/11/12
DRWN:MNABEI 2007/11/13
CH'KD:M.ISOGAYA 2007/11/26
APPR:NUKITA

REV: A

DESCRIPTION

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
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: M.NAGATA DATE: '04/02/27
CHECKED BY: K.TOJO DATE: '04/02/27
APPROVED BY: M.SASAO DATE: '04/02/27

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

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-52852-011
SHEET NO.: 2 OF 5

SIZE: A3

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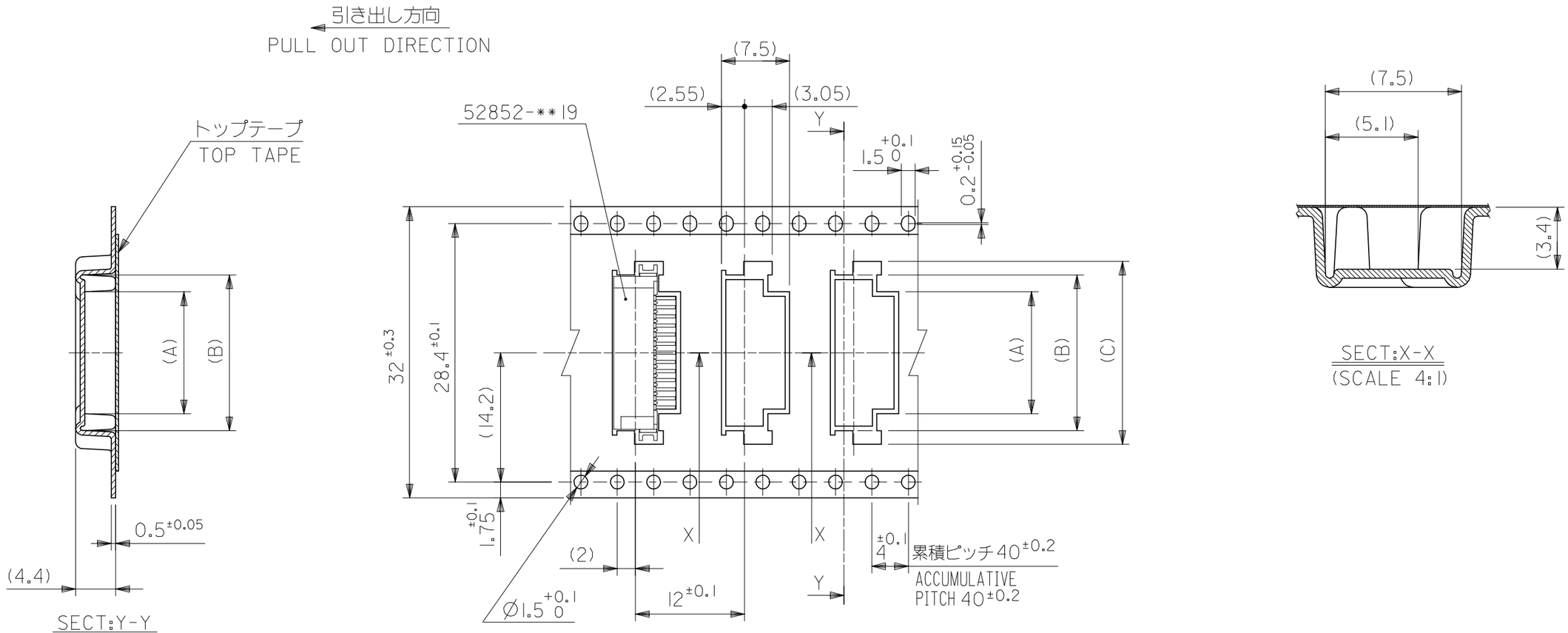

32mm幅キャリアテープ
32mm WIDTH CARRIER TAPE

キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(C)	(B)	(A)	MATEROAL NO.	極数 CKT.
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

MODEL NO. 52852-**70

REVISED
EC NO: J2008-1818 2007/11/12
DRWN:MNABEI 2007/11/13
CH'KD:M.ISOGAYA 2007/11/26
APPR:NUKITA

REV: A

DESCRIPTION

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
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: M.NAGATA DATE: '04/02/27
CHECKED BY: K.TOJO DATE: '04/02/27
APPROVED BY: M.SASAO DATE: '04/02/27

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

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-52852-011
SHEET NO.: 3 OF 5

SIZE: A3

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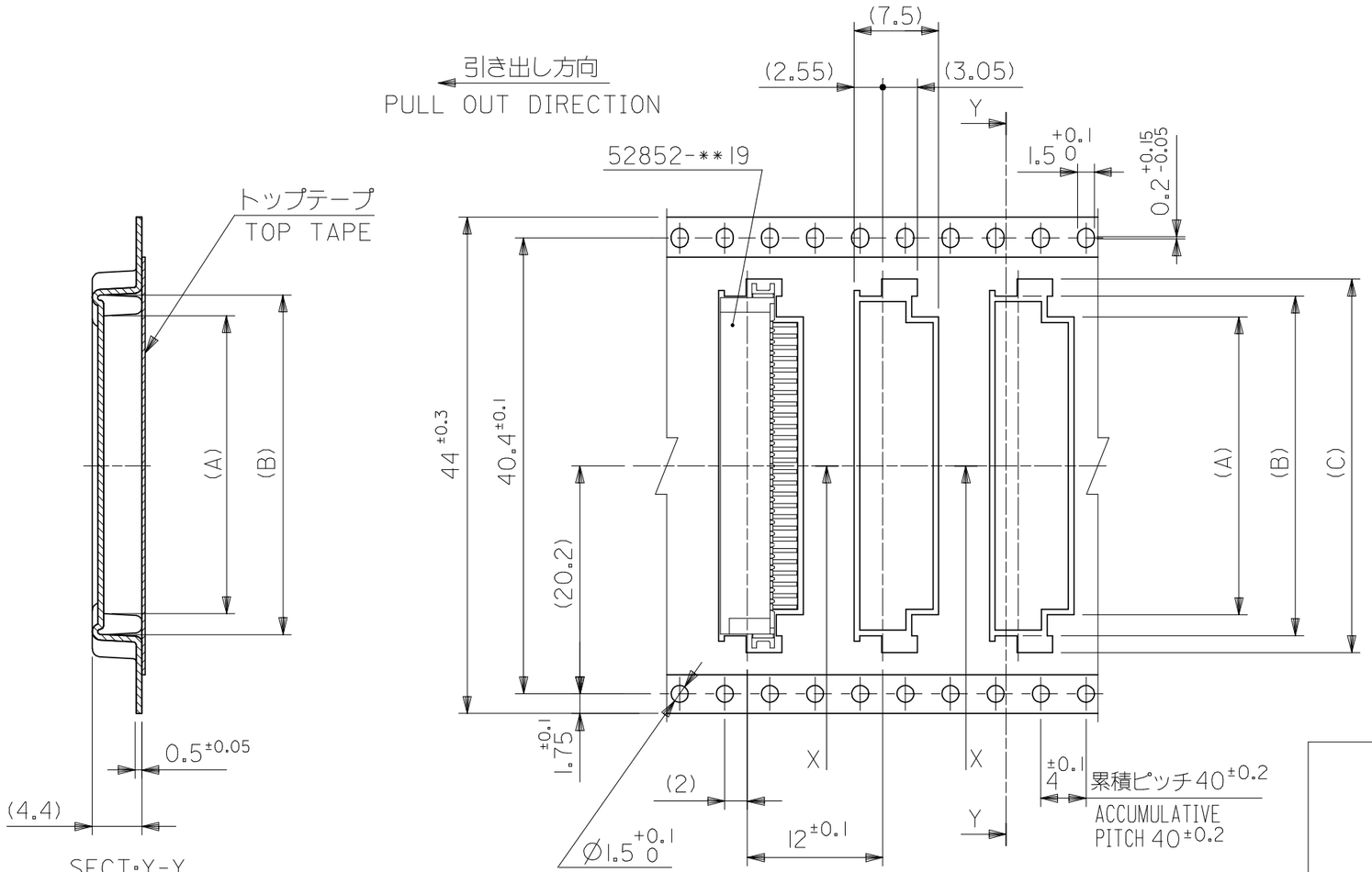
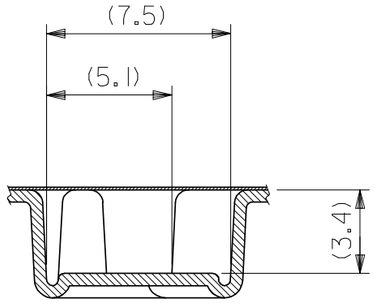


SECT:Y-Y



SECT:X-X
(SCALE 4:1)

44mm幅キャリアテープ
44mm WIDTH CARRIER TAPE

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

MODEL NO. 52852-**70

REVISED
EC NO: J2008-1818 2007/11/12
DRWN:MNABEI 2007/11/13
CH'KD:M.ISOGAYA 2007/11/26
APPR:NUKITA
REV A

DESCRIPTION

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
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: M.NAGATA DATE: '04/02/27
CHECKED BY: K.TOJO DATE: '04/02/27
APPROVED BY: M.SASAO DATE: '04/02/27

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

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-52852-011
SHEET NO.: 4 OF 5
SIZE: A3

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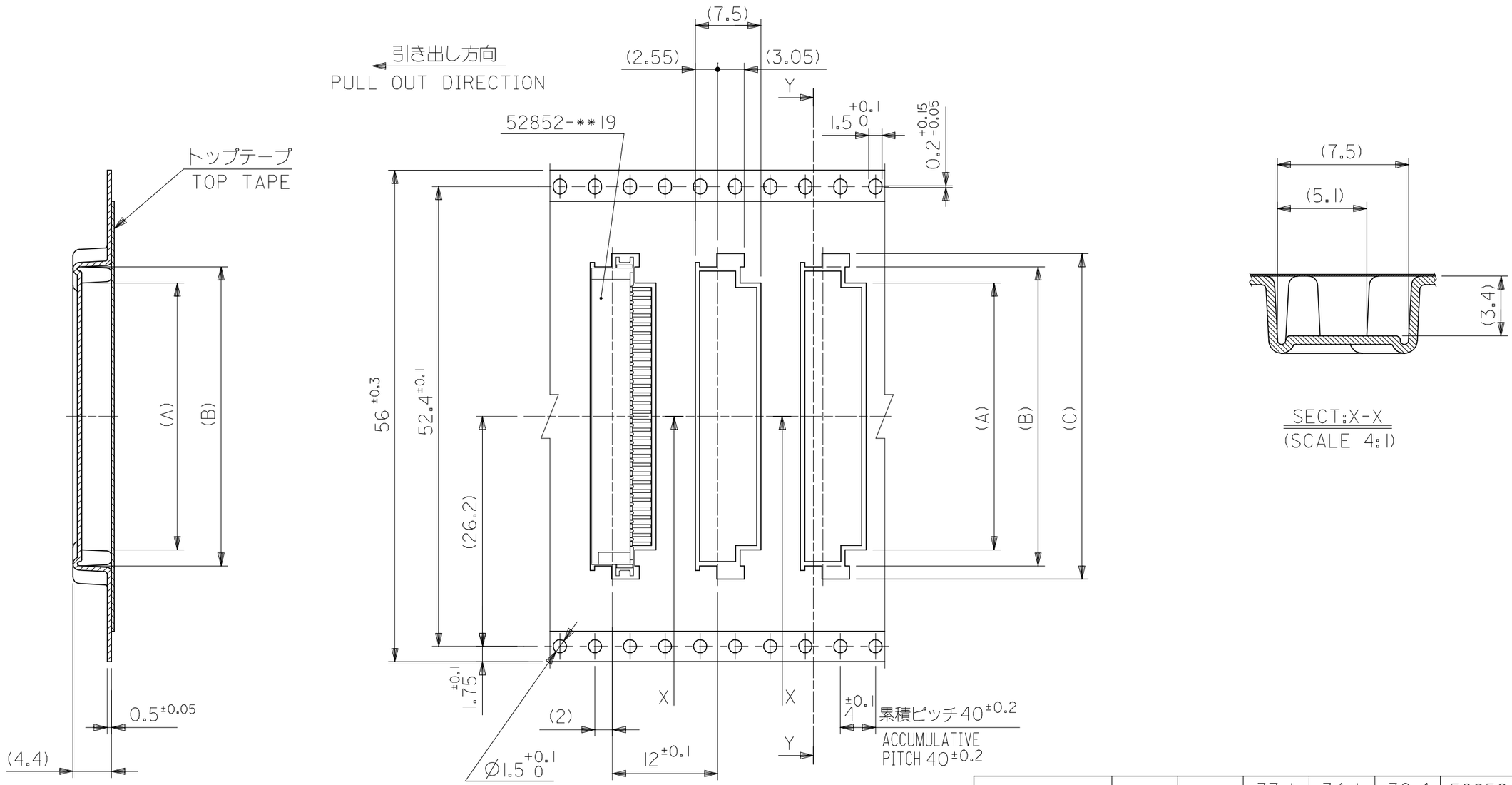

56mm幅キャリアテープ

56mm WIDTH CARRIER TAPE

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

MODEL NO. 52852-**70

REVISED
EC NO: J2008-1818 2007/11/12
DRWN:MNABEI 2007/11/13
CH'KD:MISOGAYA 2007/11/26
APPR:NUKITA

REV: A

DESCRIPTION

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
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY	M.NAGATA	DATE '04/02/27
CHECKED BY	K.TOJO	DATE '04/02/27
APPROVED BY	M.SASAO	DATE '04/02/27

TITLE: 1.0 FPC CONN. N-ZIF R/A RA BOTTOM CONTACT EMBSTP -LEAD FREE-

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE

DOCUMENT NO.: SD-52852-011

SHEET NO.: 5 OF 5

SIZE: A3

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