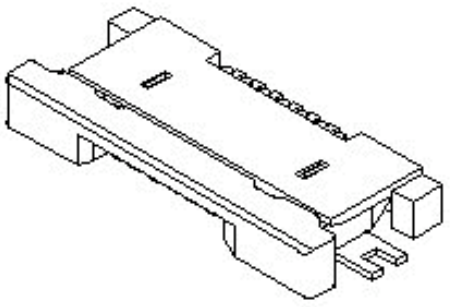
This document was generated on 06/07/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0545481571
Status: Active
Overview: ffc_fpc_smt
Description: 0.50mm (.020") Pitch FFC/FPC Connector, 1.20mm (.047") Height, Right Angle, SMT, ZIF, Bottom Contact Style, 15 Circuits, Lead-free, Gold (Au) Plating



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Product Specification PS-54548-039 (PDF)
RoHS Certificate of Compliance (PDF)

General

Product Family	FFC/FPC Connectors
Series	54548
Overview	ffc_fpc_smt
Product Name	N/A

Physical

Circuits (Loaded)	15
Contact Position	Bottom
Durability (mating cycles max)	20
Entry Angle	90° Angle
Mated Height (in)	0.047 In
Mated Height (mm)	1.20 mm
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Number of Rows	1
Orientation	Right Angle
PCB Locator	No
PCB Retention	Yes
Packaging Type	Embossed Tape on Reel
Pitch - Mating Interface (in)	0.020 In
Pitch - Mating Interface (mm)	0.50 mm
Polarized to PCB	Yes
Stackable	No
Temperature Range - Operating	-20°C to +85°C
Termination Interface: Style	Surface Mount
Wire/Cable Type	FFC/FPC

Electrical

Current - Maximum per Contact	0.5A
Voltage - Maximum	50V

Material Info

Reference - Drawing Numbers

Packaging Specification	SPK-54548-001
Product Specification	PS-54548-039, RPS-54548-083, RPS-54548-085, RPS-54548-091, RPS-54548-097, RPS-54548-099
Sales Drawing	SD-54548-039, SD-54548-040

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Not Reviewed
Halogen-Free Status
Not Reviewed

China RoHS

Need more information on product environmental compliance?

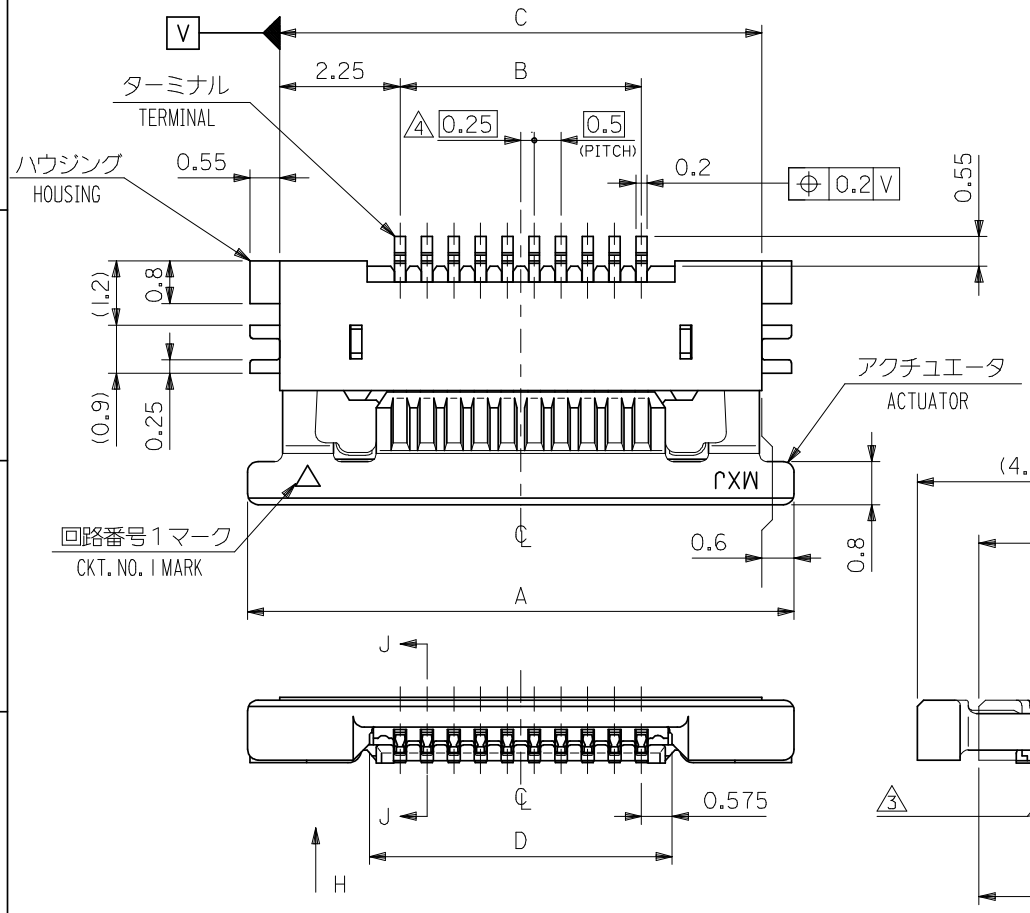
Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, click here

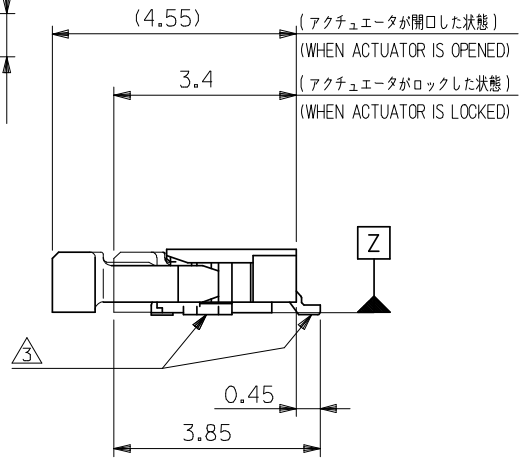
Please visit the Contact Us section for any non-product compliance questions.

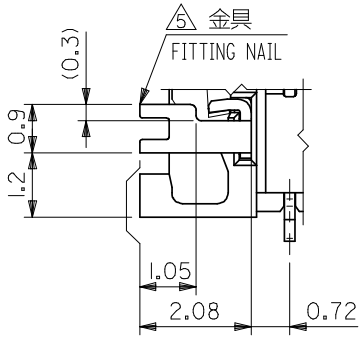
Search Parts in this Series
54548Series

This document was generated on 06/07/2010

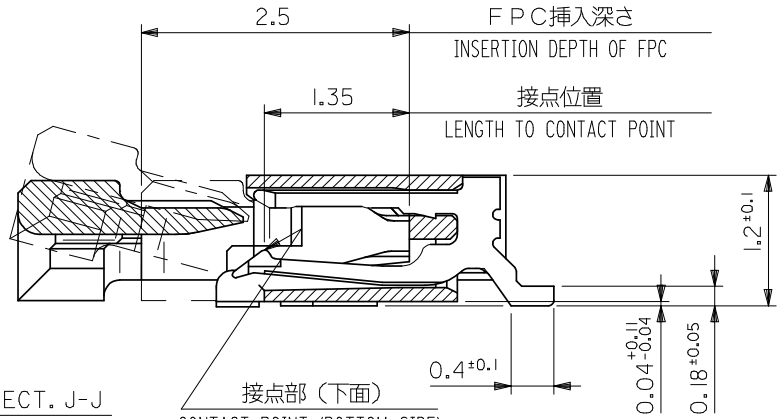
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION







VIEW H



SECT. J-J

SCALE 20:1

FPC THICKNESS	D	C	B	A	EMBOSSED TAPE ORDER No. オーダー番号	製品番号 MATERIAL No.	極数 Ckt
0.28±0.03	13.65	17.0	12.5	18.2	54548-2671	54548-2629	26
0.3±0.03	12.65	16.0	11.5	17.2	54548-2471	54548-2429	24
	12.15	15.5	11.0	16.7	54548-2371	54548-2329	23
	11.65	15.0	10.5	16.2	54548-2271	54548-2229	22
	11.15	14.5	10.0	15.7	54548-2171	54548-2129	21
	10.65	14.0	9.5	15.2	54548-2071	54548-2029	20
	10.15	13.5	9.0	14.7	54548-1971	54548-1929	19
	9.65	13.0	8.5	14.2	54548-1871	54548-1829	18
	9.15	12.5	8.0	13.7	54548-1771	54548-1729	17
	8.65	12.0	7.5	13.2	54548-1671	54548-1629	16
	8.15	11.5	7.0	12.7	54548-1571	54548-1529	15
	7.65	11.0	6.5	12.2	54548-1471	54548-1429	14
	7.15	10.5	6.0	11.7	54548-1371	54548-1329	13
	6.65	10.0	5.5	11.2	54548-1271	54548-1229	12
	6.15	9.5	5.0	10.7	54548-1171	54548-1129	11
	5.65	9.0	4.5	10.2	54548-1071	54548-1029	10
	5.15	8.5	4.0	9.7	54548-0971	54548-0929	9
	4.65	8.0	3.5	9.2	54548-0871	54548-0829	8
	4.15	7.5	3.0	8.7	54548-0771	54548-0729	7
	3.65	7.0	2.5	8.2	54548-0671	54548-0629	6
	3.15	6.5	2.0	7.7	54548-0571	54548-0529	5
	2.65	6.0	1.5	7.2	54548-0471	54548-0429	4

54548-**29 MODEL No.

REVISED
EC NO: J2008-4048 2008/06/13
DRWN:MNABEI 2008/06/16
CH'KD:THARUYAMA 2008/06/16
APPR:NUKITA 2008/06/16
DESCRIPTION
REV N

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: 10:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: HSHIMABUKURO DATE: '04/02/10
CHECKED BY: KTOJO DATE: '04/02/10
APPROVED BY: MSASAO DATE: '04/02/10

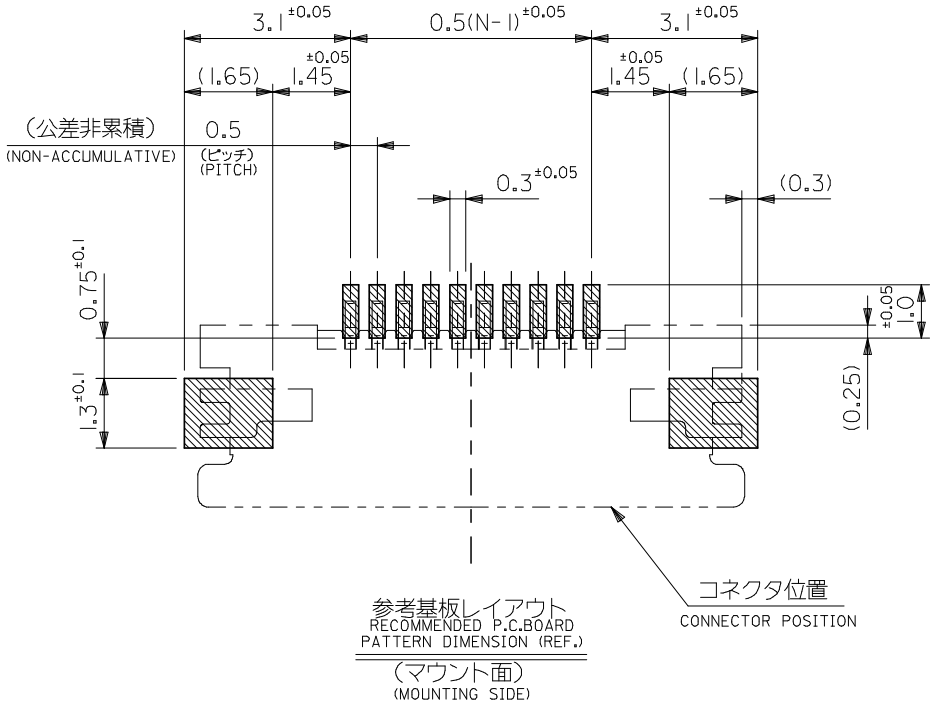
TITLE: 0.5 FPC CONN ZIF HSG ASSY FOR SMT RA BTM CONT -LEAD FREE-

MOLEX INCORPORATED

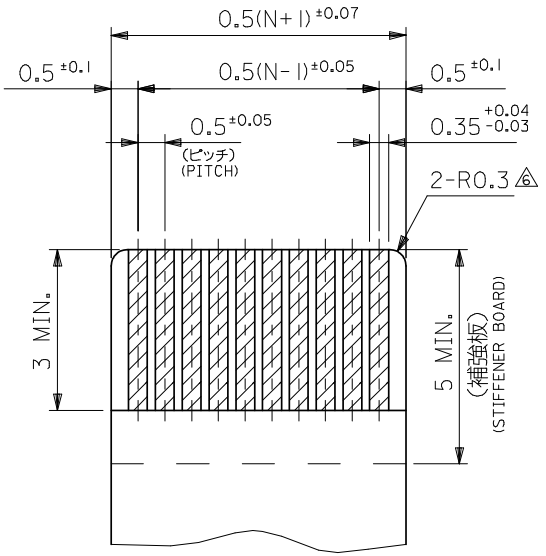
MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-54548-039
SHEET NO.: 1 OF 2

SIZE A3

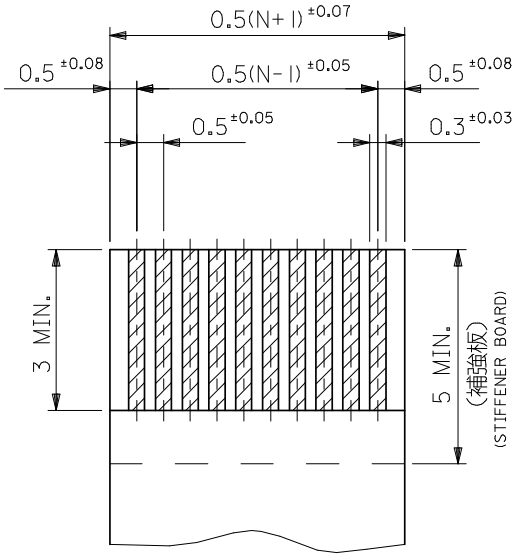
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参考基板レイアウト
RECOMMENDED P.C.BOARD PATTERN DIMENSION (REF.)
(マウント面)
(MOUNTING SIDE)



適合ＦＰＣ推奨寸法
APPLICABLE FPC RECOMMENDED DIMENSION
(仕上がり厚さ：表参照)
(THICKNESS:SEE CHART)



適合ＦＦＣ推奨寸法
APPLICABLE FFC RECOMMENDED DIMENSION
(仕上がり厚さ：表参照)
(THICKNESS:SEE CHART)

注記 NOTES

1. 使用材料 MATERIAL

ハウジング HOUSING	：LCP，UL94V−0	
アクチュエータ ACTUATOR	：PPS，UL94V−0	
ターミナル TERMINAL	：リン青銅（t＝0．2） PHOSPOR BRONZE	
メッキ PLATING	接点部：金メッキ CONTACT PORTION：GOLD PLATING	
	テール部：錫メッキ SOLDERING PORTION：TIN OVER PLATING	
	下地：ニッケルメッキ UNDER PLATING:NICKEL PLATING	
金具 FITTING NAIL	：リン青銅、錫メッキ（t＝0．2） PHOSPOR BRONZE, TIN PLATING	
	下地：ニッケルメッキ UNDER PLATING:NICKEL PLATING	

2. エンボステープ梱包時は、アクチュエータがロックした状態とする。
IN THE PACKAGE,ACTUATOR OF PART NO.54548-**29SHOULD BE LOCKED.

③ ソルダーテール半田付け面のズレ量、及び金具半田付け面のズレ量は、基準面 Z に対し上方向 0MAX.、下方向 0．15MAX.とし相互のバラツキ量は0．1MAX.とする。
MISALIGNMENT OF SOLDER TAILS AND FITTING NAILS FROM Z
UPPER DIRECTION: 0 MAX. , LOWER DIRECTION: 0.15 MAX.
OFFSET BETWEEN UPPER AND LOWER 0.1 MAX.

④ 偶数極に適用。
APPLY FOR EVEN CIRCUIT.

⑤ パターンはくり止め用金具
FITTING NAIL FOR PREVENTION OF PEELING OF P.C.B. PATTERN.

⑥ R0．3はＦＰＣ導体部にかからないこと
R0.3 MUST NOT BE OVERLAPPED TO PATTERN OF FPC.

7. 本製品は54548-**21の鉛フリー（部分金メッキ）品である。
RHIS PRODUCT IS LEAD FREE OF 54548-**21 (SELECTIVE GOLD).

8. N: 極数 N: CIRCUIT.

FPC/FFC について:

打ち抜き方向は導体側から補強板側を推奨します。
導体部については軟銅箔35μmまたは50μmを推奨します。

ABOUT FPC/FFC
RECOMMENDED PUNCHER DIRECTION : FROM CONDUCTOR SIDE TO STIFFENER FILM SIDE.
RECOMMENDED CONDUCTOR SPEC :
THICKNESS OF SOFT COPPER FOIL : 35 MICROMETER OR 50 MICROMETER.

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。ベースフィルムは25μmを推奨します。
接着剤は熱硬化接着剤を推奨します。
尚、接着剤の接点部への付着は導通不良の原因になりますので、染み出しが無い様、お願い致します。

ABOUT FPC
RECOMMENDED MATERIAL/THICKNESS.
STIFFERNER FILM : POLYIMIDE
BASE FILM THICKNESS : 25μm
BONDING AGENT : THERMOSETTING BONDING AGENT
PLEASE PUT APPROPRIATE AMOUNT OF ADHESIVE ON THE CONTACT AREA BECAUSE THE EXTRA ADHESIVE MAY CAUSE THE DEFECT IN ELECTRICAL CONTINUITY.

REVISED	EC NO:	DESCRIPTION	REV
	J2008-4048		N
DRWN:MNABEI	2008/06/13		
CH'KD:THARUYAMA	2008/06/16		
APPR:NUKITA	2008/06/16		

GENERAL TOLERANCES (UNLESS SPECIFIED)

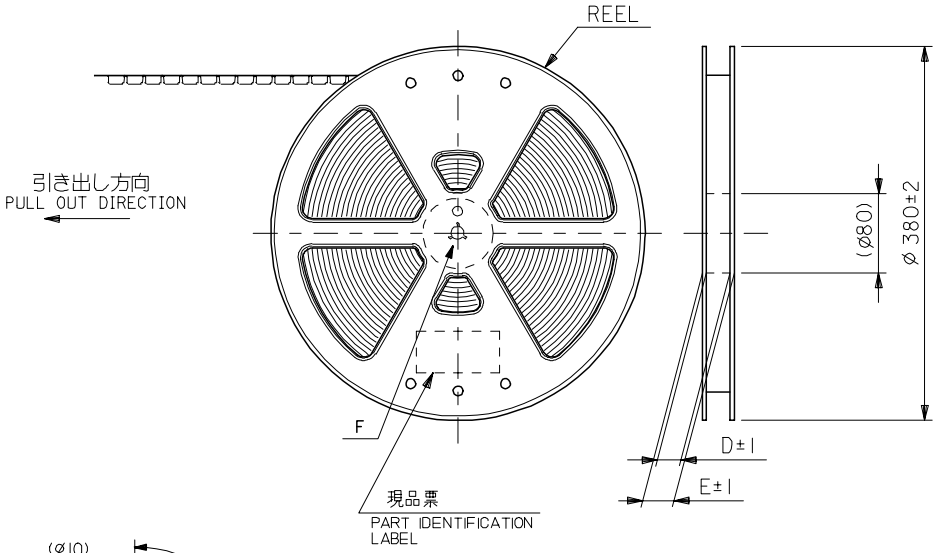
10 UNDER	±0.2
10 OVER 30 UNDER	±0.25
30 OVER	±0.3
ANGULAR	±3 °

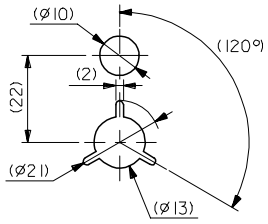
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	MM ONLY
SCALE	---
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY	HSHIMABUKURO
DATE	'04/02/10
CHECKED BY	KTOJO
DATE	'04/02/10
APPROVED BY	MSASAO
DATE	'04/02/10
MATERIAL NO.	SEE SHEET 1
TITLE	0.5 FPC CONN ZIF HSG ASSY FOR SMT RA BTM CONT -LEAD FREE-
	MOLEX INCORPORATED
DOCUMENT NO.	SD-54548-039
SHEET NO.	2 OF 2
SIZE	A3

54548-**29 MODEL No.

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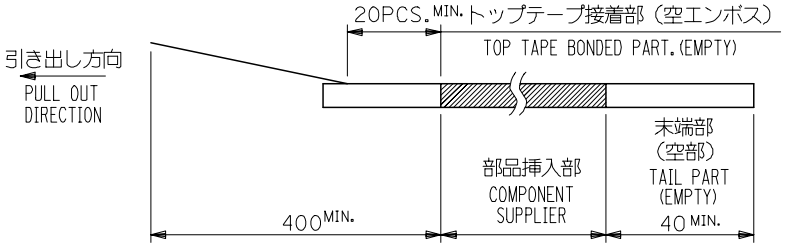




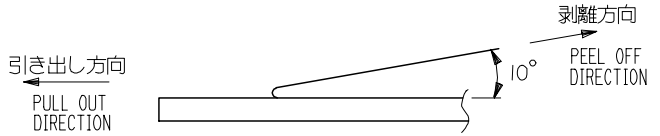
DETAIL F

NOTES

1. 製品詳細寸法については図面 SD-54548-039 を参照下さい。
   RE DETAILED DIMENSION, SEE SD-54548-039
2. 梱包数量：３０００個／リール
   NUMBER OF CONNECTORS : 3000PCS/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： 0.1N ～ 1.3N{10gf ～ 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 : 0.1N ～ 1.3N{10gf ～ 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>
   POLYSTYRENE(PS) <RECYCLE MATERIAL CONTAINED>

6. 本製品は 54548-**91 の鉛フリー（部分金メッキ）品である.
   THIS PRODUCT IS LEAD FREE OF 54548-**91 (SELECTIVE GOLD).

REVISED				REV
EC NO: J2006-3468	2006/05/17			J
DRWN:MNABE1	2006/05/19			
CHKD:KTOYODA	2006/05/25			
APPR:NUKITA				

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: HSHIMABUKURO DATE: '04/02/10			
CHECKED BY: KTOJO DATE: '04/02/10			
APPROVED BY: MSASAO DATE: '04/02/10			
MATERIAL NO.: SEE CHART			

54548-**71 | MODEL No.

TITLE: 0.5 FPC CONN ZIF HSG ASSY RA BOTTOM CONTACT -LEAD FREE-

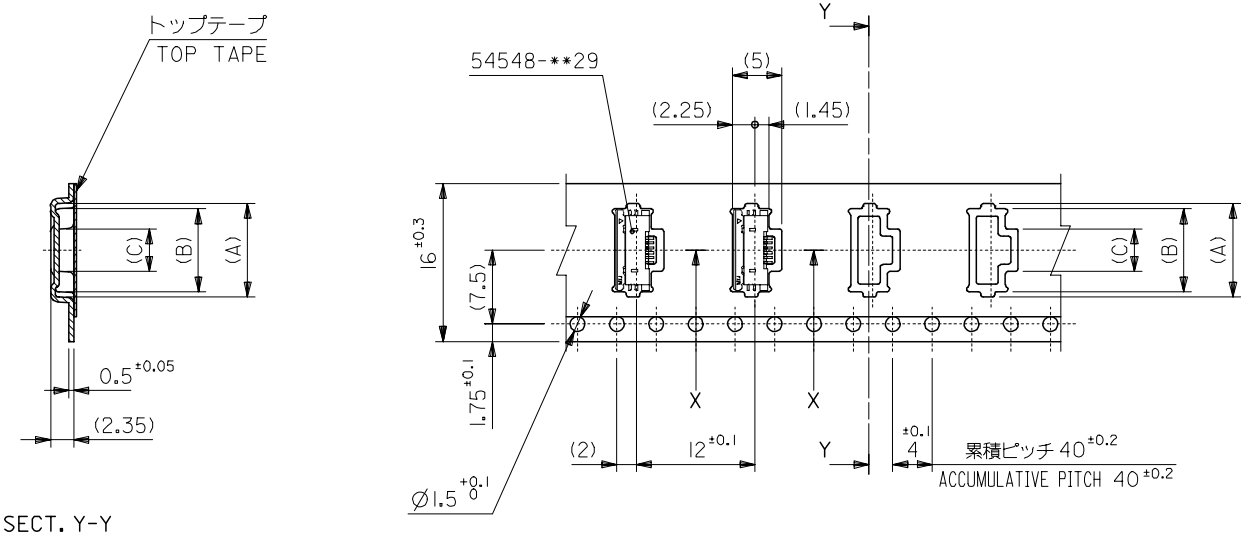
molex MOLEX INCORPORATED

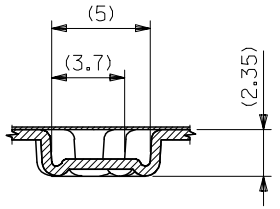
DOCUMENT NO.: SD-54548-040 | SHEET NO.: 1 OF 4

SIZE A3

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引き出し方向
PULL OUT DIRECTION





16mm幅キャリアテープ
16mm WIDTH CARRIER TAPE

キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(C)	(B)	(A)	製品番号 MATERIAL No.	極数 Ckt
16	21.4	17.4	4.3	8.4	9.5	54548-0671	6
			3.8	7.9	9.0	54548-0571	5
			3.3	7.4	8.5	54548-0471	4

54548-**71 MODEL No.

REVISED
EC NO: J2006-3468 2006/05/17
DRWN:MNABEI 2006/05/19
CHKD:KTOYODA
APPR:NUKITA 2006/05/25

REV	DESCRIPTION
J	

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: HSHIMABUKURO DATE: '04/02/10
CHECKED BY: KTOJO DATE: '04/02/10
APPROVED BY: MSASAO DATE: '04/02/10
MATERIAL NO.: SEE CHART

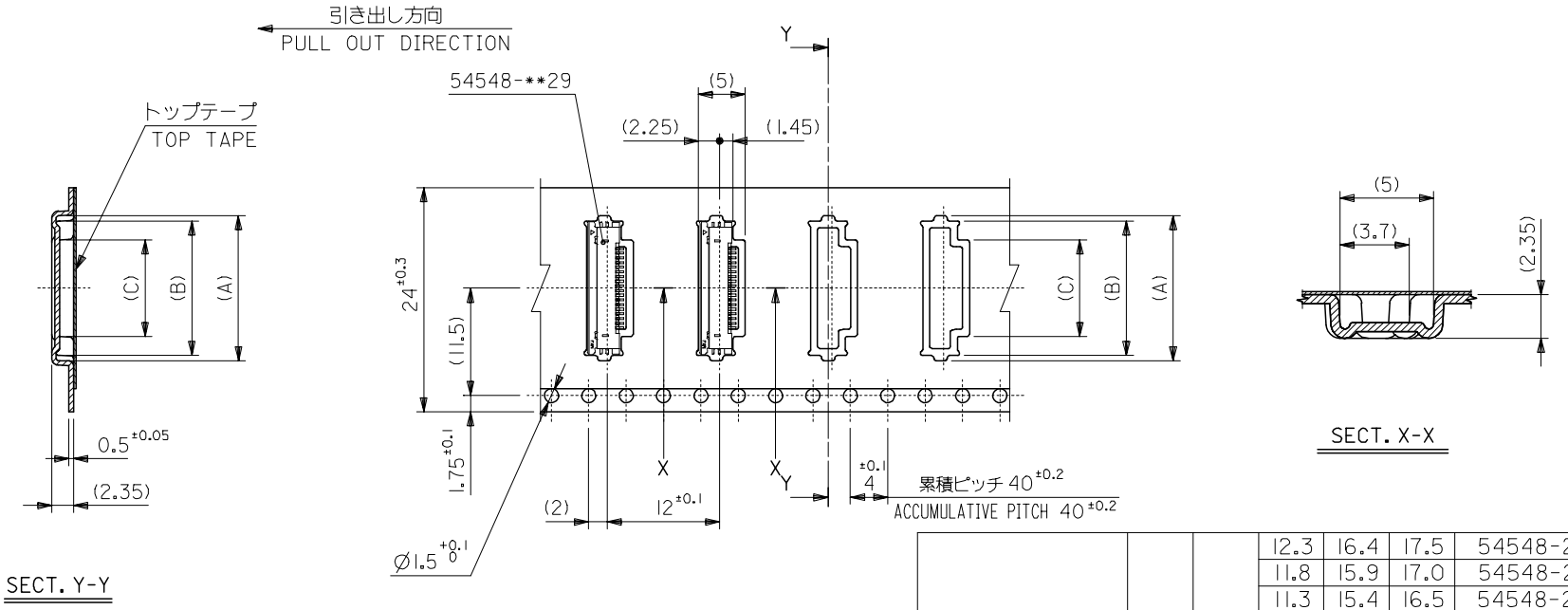
TITLE: 0.5 FPC CONN ZIF HSG ASSY RA BOTTOM CONTACT -LEAD FREE-

molex MOLEX INCORPORATED

DOCUMENT NO.: SD-54548-040
SHEET NO.: 2 OF 4

SIZE A3

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SECT. Y-Y

SECT. X-X

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)	製品番号 MATERIAL No.	極数 Ckt
24	29.4	25.4	12.3	16.4	17.5	54548-2271	22
			11.8	15.9	17.0	54548-2171	21
			11.3	15.4	16.5	54548-2071	20
			10.8	14.9	16.0	54548-1971	19
			10.3	14.4	15.5	54548-1871	18
			9.8	13.9	15.0	54548-1771	17
			9.3	13.4	14.5	54548-1671	16
			8.8	12.9	14.0	54548-1571	15
			8.3	12.4	13.5	54548-1471	14
			7.8	11.9	13.0	54548-1371	13
			7.3	11.4	12.5	54548-1271	12
			6.8	10.9	12.0	54548-1171	11
			6.3	10.4	11.5	54548-1071	10
			5.8	9.9	11.0	54548-0971	9
			5.3	9.4	10.5	54548-0871	8
			4.8	8.9	10.0	54548-0771	7

54548-**71 MODEL No.

REVISED
EC NO: J2006-3468 2006/05/17
DRWN:MNABEI 2006/05/19
CHKD:KTOYODA
APPR:NUKITA 2006/05/25
DESCRIPTION
REV J

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: HSHIMABUKURO DATE: '04/02/10
CHECKED BY: KTOJO DATE: '04/02/10
APPROVED BY: MSASAO DATE: '04/02/10
MATERIAL NO.: SEE CHART

TITLE: 0.5 FPC CONN ZIF HSG ASSY RA BOTTOM CONTACT -LEAD FREE-

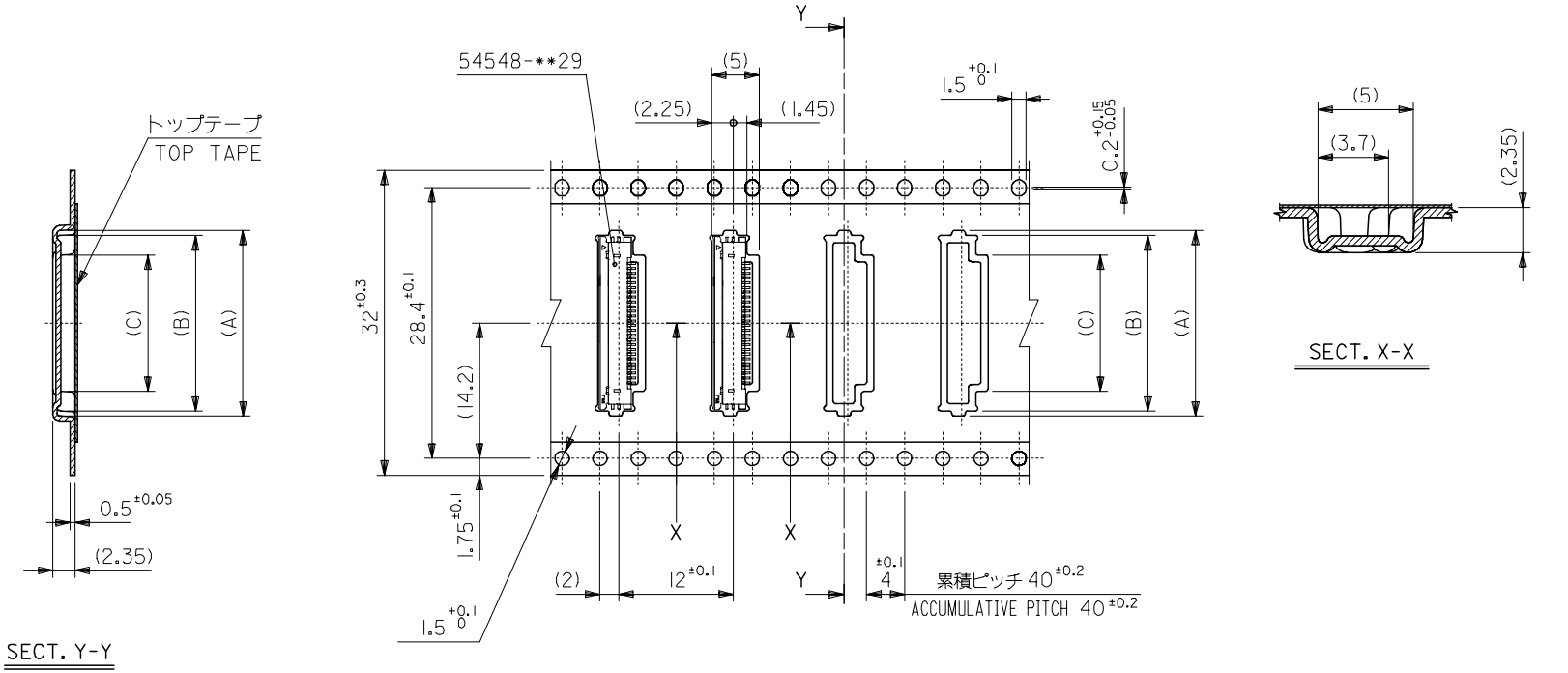
molex MOLEX INCORPORATED

DOCUMENT NO.: SD-54548-040
SHEET NO.: 3 OF 4

SIZE A3

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引き出し方向
PULL OUT DIRECTION



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)	製品番号 MATERIAL No.	極数 Ckt
32	37.4	33.4	14.3	18.4	19.5	54548-2671	26
			13.3	17.4	18.5	54548-2471	24
			12.8	16.9	18.0	54548-2371	23

54548-**71 MODEL No.

REVISED
EC NO: J2006-3468 2006/05/17
DRWN:MNABEI 2006/05/19
CHKD:KTOYODA
APPR:NUKITA 2006/05/25
DESCRIPTION
REV J

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: HSHIMABUKURO DATE: '04/02/10
CHECKED BY: KTOJO DATE: '04/02/10
APPROVED BY: MSASAO DATE: '04/02/10
MATERIAL NO.: SEE CHART

TITLE: 0.5 FPC CONN ZIF HSG ASSY RA BOTTOM CONTACT -LEAD FREE-

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SHEET NO.: 4 OF 4

SIZE A3

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