This document was generated on 06/05/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0525591252
Status: Active
Overview:
Description: 0.50mm (.020") Pitch FFC/FPC Connector, Vertical, SMT, ZIF, 12 Circuits, Lead-free, Gold (Au) Plating, High Barrier Packaging

Agency Certification

UL	E29179

General

Product Family	FFC/FPC Connectors
Series	52559
Overview	ffc_fpc_smt
Product Name	N/A

Physical

Circuits (Loaded)	12
Contact Position	N/A
Durability (mating cycles max)	20
Entry Angle	Vertical
Flammability	94V-0
Mated Height (in)	0.154 In
Mated Height (mm)	3.90 mm
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	Nylon
Number of Rows	1
Orientation	Vertical
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	No
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 AC (RMS)/DC

Material Info

Reference - Drawing Numbers

Application Specification	AS-52559-001
Packaging Specification	SPK-52559-001, SPK-52559-003
Product Specification	PS-52559-013, RPS-52559-062, RPS-52559-064, RPS-52559-065, RPS-52559-068, RPS-52559-070, RPS-52559-072
Sales Drawing	SD-52559-048, SD-52559-049

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?

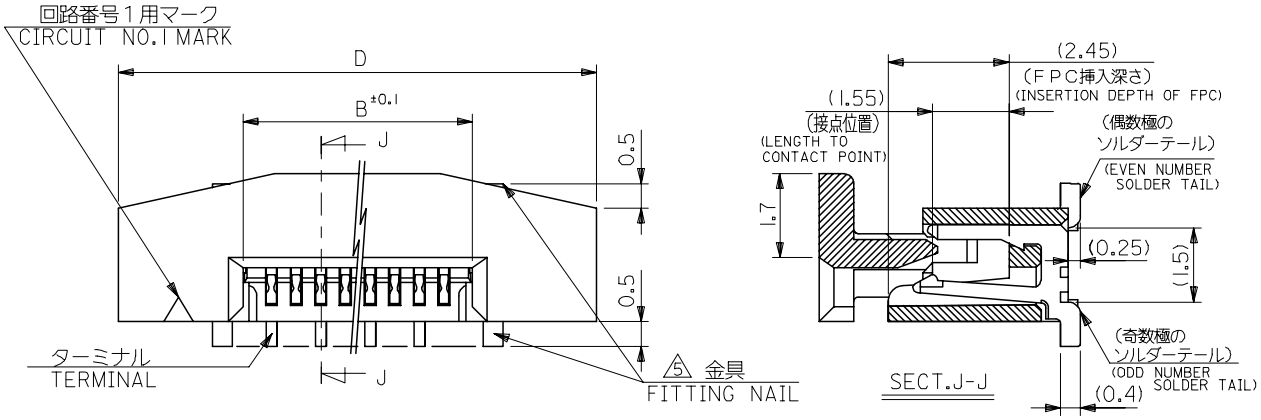
Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, click here

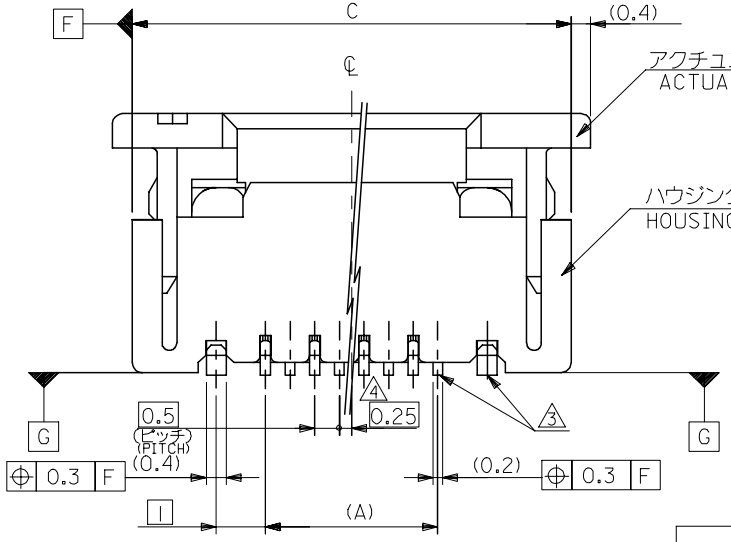
Please visit the Contact Us section for any non-product compliance questions.

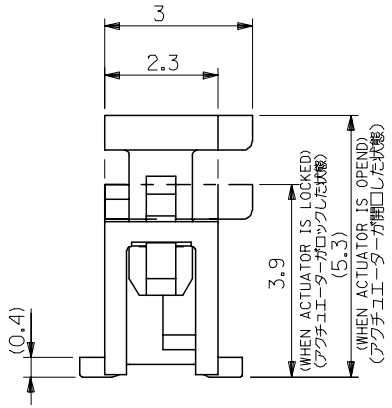
Search Parts in this Series
52559Series

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注記 NOTES

1. 使用材料：MATERIAL
   - ハウジング HOUSING：46NYLON 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） PHOS-BRO
     - 接点部 金メッキ 0．1マイクロメートル以上 CONTACT GOLD 0.1 MICROMETER MINIMUM
     - 半田付け部 錫メッキ 1．0マイクロメートル以上 TAIL TIN 1.0 MICROMETER MINIMUM
     - ニッケル下地 1．0マイクロメートル以上 NICKEL(UNDER PLATING) 1.0 MICROMETER MINIMUM
   - 金具 FITTING NAIL：リン青銅（t＝0．4） PHOS-BRO
     - 錫メッキ 1．0マイクロメートル以上 TIN 1.0 MICROMETER MINIMUM
     - ニッケル下地 1．0マイクロメートル以上 NICKEL(UNDER PLATING) 1.0 MICROMETER MINIMUM
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.52559-**79 SHOULD 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 G に対し上方向 0.05 MAX. ，下方向 0.15 MAX. とする。
   MISALIGNMENT OF SOLDER TAILS AND FITTING NAILS FROM G UPPER DIRECTION: 0.05 MAX. , LOWER DIRECTION: 0.15 MAX.
4. 偶数極に適用。
   APPLY FOR EVEN CIRCUIT.
5. パターンはがれ止め用金具。
   FITTING NAIL FOR PREVENTION OF PEELING OF P.C.B. PATTERN.
6. R0．3は、FPCの導体部にかからないこと。
   R0.3 MUST NOT BE OVERLAPPED TO PATTERN OF FPC.

MODEL NO. 52559-**79

RELEASED
EC NO: J2005-0174 2004/07/14
DRWN:MNABEI 2004/07/14
CHKD:KTOJO 2004/07/14
APPR:NUKITA 2004/07/14
DESCRIPTION
REV 0

GENERAL TOLERANCES (UNLESS SPECIFIED)

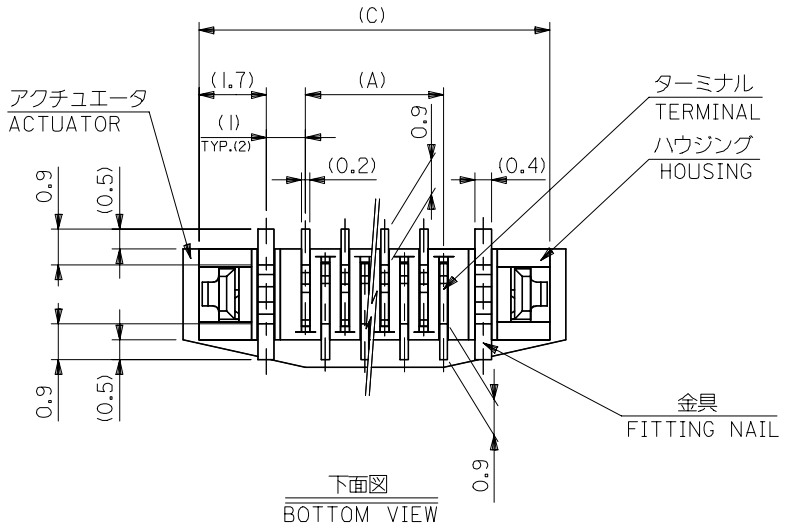
10 UNDER	±0.2
10 OVER 30 UNDER	±0.25
30 OVER	±0.3
ANGULAR	±3 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY	SCALE: ---	DESIGN UNITS: METRIC	THIRD ANGLE PROJECTION
DRAWN BY: MNABEI	DATE: '04/07/13	TITLE: 0.5 FPC CONN ASSY ZIF. -LEAD FREE-	
CHECKED BY: KTOJO	DATE: '04/07/13		
APPROVED BY: NUKITA	DATE: '04/07/13	molex MOLEX INCORPORATED	
MATERIAL NO.: SEE CHART		DOCUMENT NO.: SD-52559-048	SHEET NO.: 1 OF 2

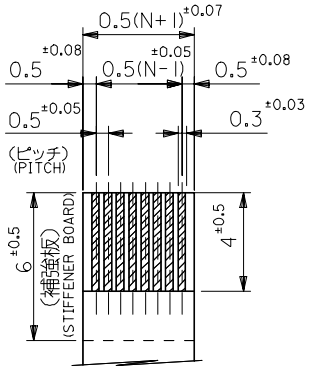
SIZE A3

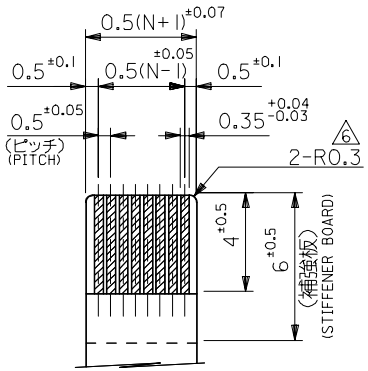
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

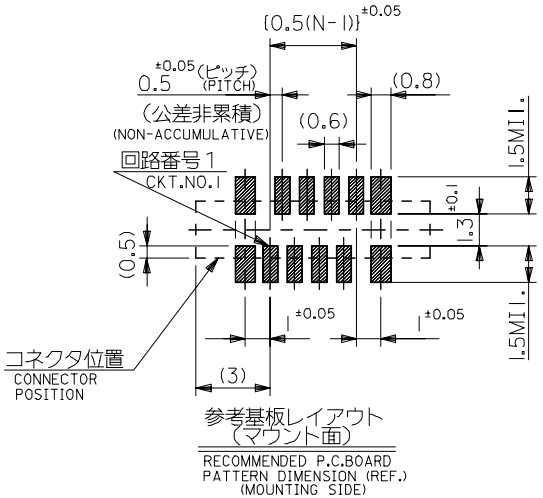


FPCについて：
打抜き方向は導体側から補強板側を推奨致します。
補強フィルム材質はポリイミドを推奨致します。
接着剤は熱硬化接着剤を推奨致します。

ABOUT FPC :
RECOMMENDED PUNCHER DIRECTION : FROM CONDUCTOR SIDE TO STIFFENER BOARD SIDE.
RECOMMENDED MATERIAL :
STIFFENER FILM : POLYIMIDE
BONDING AGENT : THRMOSETTING BONDING AGENT







25.7	24.9	20.65	19.5	52559-4079	40
23.7	22.9	18.65	17.5	-3679	36
22.2	21.4	17.15	16.0	-3379	33
21.7	20.9	16.65	15.5	-3279	32
21.2	20.4	16.15	15.0	-3179	31
20.7	19.9	15.65	14.5	-3079	30
20.2	19.4	15.15	14.0	-2979	29
19.7	18.9	14.65	13.5	-2879	28
19.2	18.4	14.15	13.0	-2779	27
18.7	17.9	13.65	12.5	-2679	26
18.2	17.4	13.15	12.0	-2579	25
17.7	16.9	12.65	11.5	-2479	24
17.2	16.4	12.15	11.0	-2379	23
16.7	15.9	11.65	10.5	-2279	22
16.2	15.4	11.15	10.0	-2179	21
15.7	14.9	10.65	9.5	-2079	20
15.2	14.4	10.15	9.0	-1979	19
14.7	13.9	9.65	8.5	-1879	18
14.2	13.4	9.15	8.0	-1779	17
13.7	12.9	8.65	7.5	-1679	16
13.2	12.4	8.15	7.0	-1579	15
12.7	11.9	7.65	6.5	-1479	14
12.2	11.4	7.15	6.0	-1379	13
11.7	10.9	6.65	5.5	-1279	12
11.2	10.4	6.15	5.0	-1179	11
10.7	9.9	5.65	4.5	-1079	10
10.2	9.4	5.15	4.0	-0979	9
9.7	8.9	4.65	3.5	-0879	8
8.7	7.9	3.65	2.5	52559-0679	6
D	C	B	(A)	MATERIAL NO.	極数 CKT.

RELEASED
EC NO: J2005-0174 2004/07/14
DRWN:MNABEI 2004/07/14
CHKD:KTOJO 2004/07/14
APPR:NUKITA 2004/07/14
DESCRIPTION
0
REV

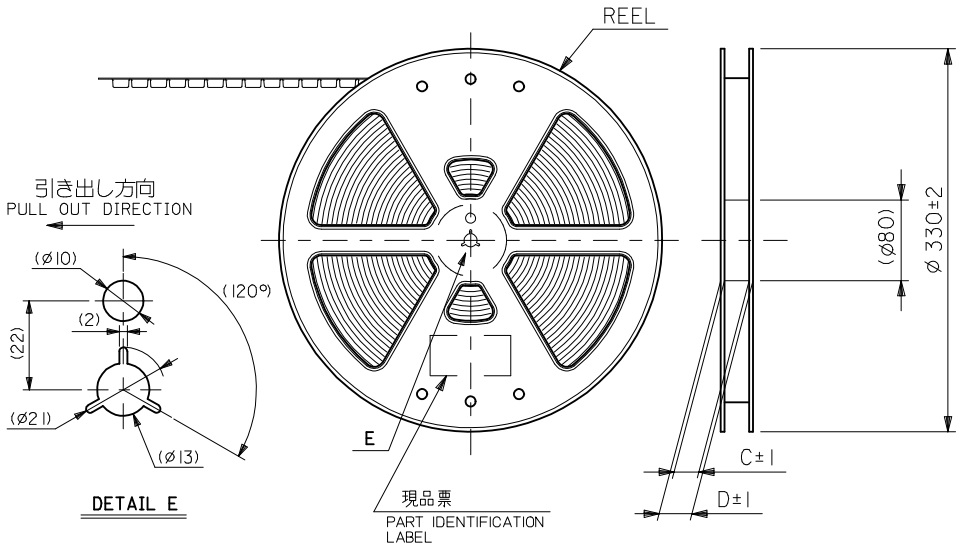
GENERAL TOLERANCES (UNLESS SPECIFIED)

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

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

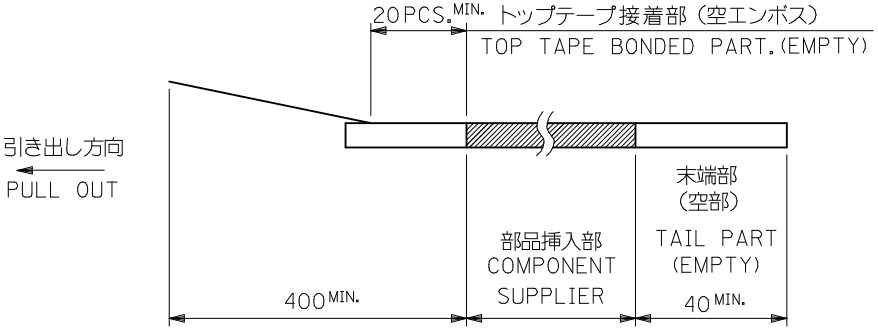
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DRAWN BY: MNABEI	DATE: '04/07/13	TITLE: 0.5 FPC CONN ASSY ZIF. -LEAD FREE-	
CHECKED BY: KTOJO	DATE: '04/07/13		
APPROVED BY: NUKITA	DATE: '04/07/13	molex MOLEX INCORPORATED	
MATERIAL NO.: SEE CHART		DOCUMENT NO.: SD-52559-048	SHEET NO.: 2 OF 2
SIZE: A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

MODEL NO. 52559-**79

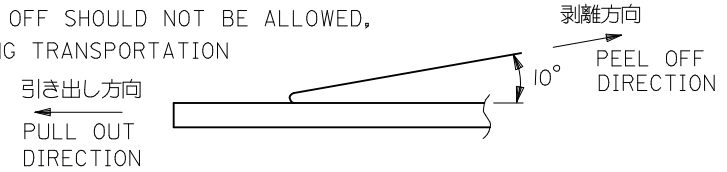


注記 NOTES

1. 製品番号 52559-**79 の梱包状態はアクチュエータがロックした状態とする。
   詳細寸法については 製品単体図面を参照下さい。
   IN THE PACKAGE,ACTUATOR OF PART NO. 52559-**79 SHOU D BE LOCKED
   RE DETAILED DIMENSIONS,SEE ASSY DRAWING
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：（剥離方向は下図参照）
   0.１N～1.３N {１０ｇｆ～１３０ｇｆ}　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事。）
   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　　キャリアテープ：ポリプロピレン（ＰＰ）
   トップテープ：ＰＥＴ，ＰＥ，ＰＥＦ
   リール：ポリスチレン（ＰＳ）<リサイクル材を含む>

   MATERIAL CARRIER TAPE:POLYPROPYLENE
   TOP TAPE:PET,PE,PEF
   REEL:POLYSTYRENE (PS)
   <RECYCLE MATERIAL CONTAINED>

6. 本製品は 52559-**53 のエンボステープ違い品である。
   THIS PRODUCT IS EMBOSSED TAPE DIFFERENCE ARTICLE OF 52559-**53.

7. 本製品は乾燥剤入り、ハイバリア梱包仕様である。
   THIS PRODUCT IS HIGH BARRIER PACKAGE WITH DESICCANT.

REVISED				
EC NO: J2009-2061	DRWN:TKON	CH'KD:HMATSUMOTO	APPR:NUKITA	DESCRIPTION
2009/05/20	2009/05/21	2009/05/21		
G				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	SCALE: ---	DESIGN UNITS: METRIC	THIRD ANGLE PROJECTION
DRAWN BY: MNABEI	DATE: '04/07/13		
CHECKED BY: KTOJO	DATE: '04/07/13		
APPROVED BY: NUKITA	DATE: '04/07/13		
MATERIAL NO.: SEE SHEET 2-4			

MODEL NO.: 52559-**52

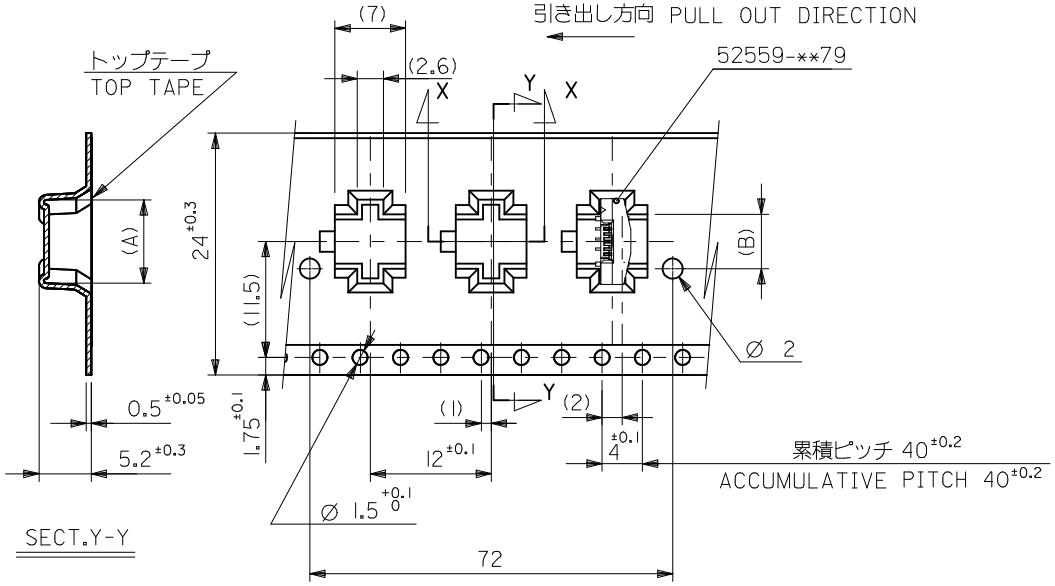
TITLE: 0.5 FPC CONN ASSY ZIF FOR SMT EMBSTP PKG -LEAD FREE-

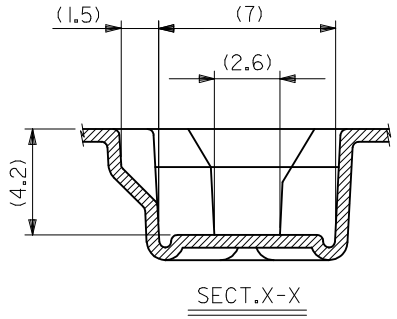
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DOCUMENT NO.: SD-52559-049　　SHEET NO.: 1 OF 4

SIZE A3

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24mm幅キャリアテープ
24mm WIDTH CARRIER TAPE

キャリアテープ幅 CARRIER TAPE WIDTH	D	C	(B)	(A)	MATERIAL NO.	CIRCUIT NO.
24	29.4	25.4	14.4	17.3	52559-2452	24
			13.9	16.8	52559-2352	23
			12.9	15.8	52559-2152	21
			12.4	15.3	52559-2052	20
			10.9	13.8	52559-1752	17
			10.4	13.3	52559-1652	16
			9.9	12.8	52559-1552	15
			9.4	12.3	52559-1452	14
			8.4	11.3	52559-1252	12
			7.4	10.3	52559-1052	10
			6.9	9.8	52559-0952	9
			5.4	8.3	52559-0652	6

52559-**52 MODEL NO.

REVISED
EC NO: J2009-2061 2009/05/20
DRWN:TKON 2009/05/21
CH'KD:HMATSUMOTO
APPR:NUKITA
DESCRIPTION
G
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
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

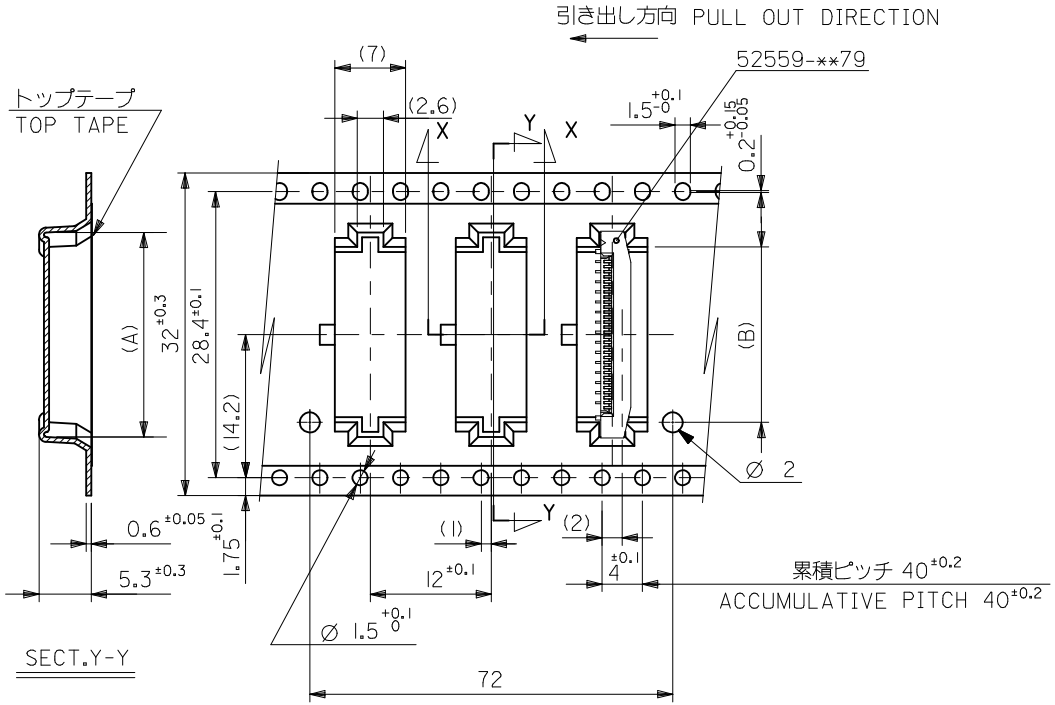
DRAWN BY: MNABEI DATE: '04/07/13
CHECKED BY: KTOJO DATE: '04/07/13
APPROVED BY: NUKITA DATE: '04/07/13

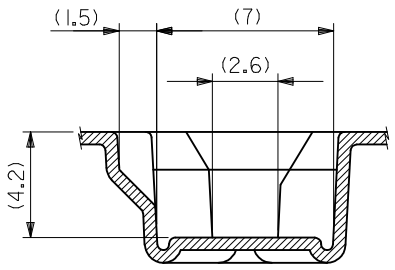
TITLE: 0.5 FPC CONN ASSY ZIF FOR SMT EMBSTP PKG -LEAD FREE-

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-52559-049
SHEET NO.: 2 OF 4
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	D	C	(B)	(A)	MATERIAL NO.	CIRCUIT NO.
32	37.4	33.4	18.4	21.3	52559-3252	32
			17.4	20.3	52559-3052	30
			16.4	19.3	52559-2852	28
			15.9	18.8	52559-2752	27
			15.4	18.3	52559-2652	26

52559-**52 MODEL NO.

REVISED
EC NO: J2009-2061 2009/05/20
DRWN:TKON 2009/05/21
CH'KD:HMATSUMOTO
APPR:NUKITA
DESCRIPTION
REV G

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: MNABEI DATE: '04/07/13
CHECKED BY: KTOJO DATE: '04/07/13
APPROVED BY: NUKITA DATE: '04/07/13
MATERIAL NO.: SEE TABLE

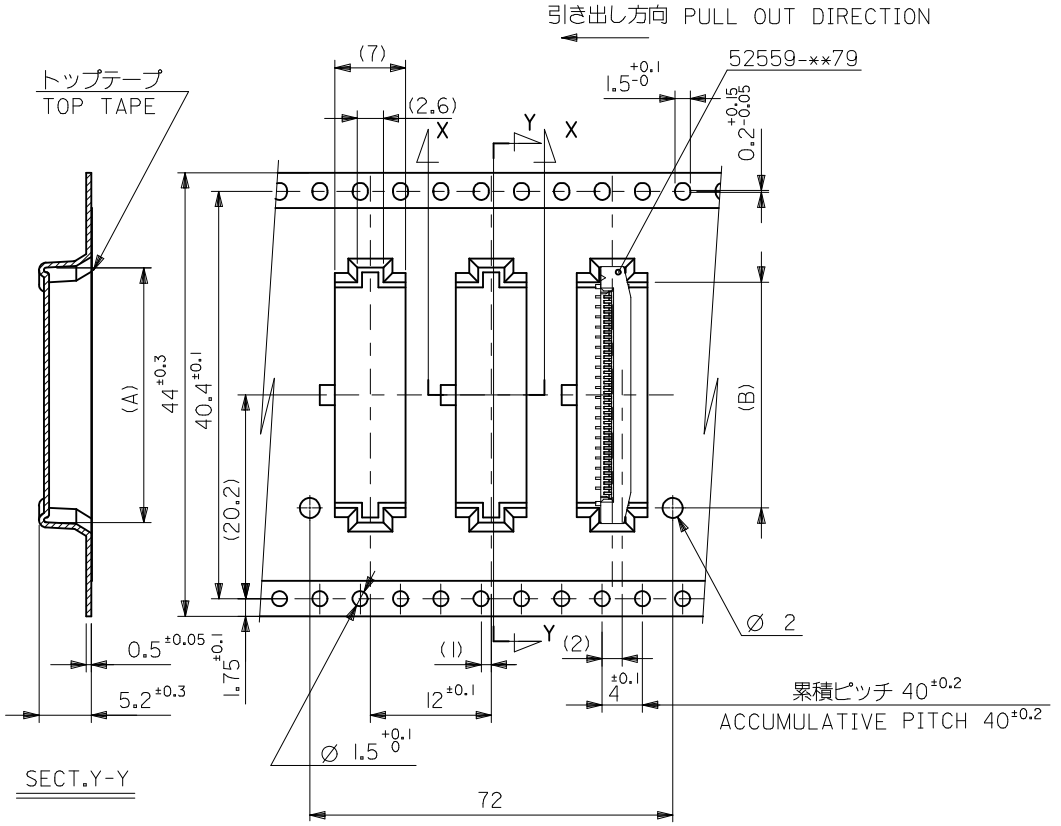
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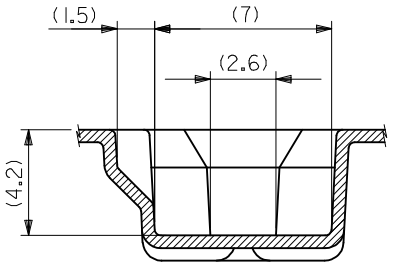
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DOCUMENT NO.: SD-52559-049
SHEET NO.: 3 OF 4

SIZE A3

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44mm幅キャリアテープ
44mm WIDTH CARRIER TAPE

キャリアテープ幅 CARRIER TAPE WIDTH	D	C	(B)	(A)	MATERIAL NO.	CIRCUIT NO.
44	49.4	45.4	22.4	25.3	52559-4052	40
			20.4	23.3	52559-3652	36

52559-**52 MODEL NO.

REVISED			REV
EC NO: J2009-2061	DRWN:TKON	2009/05/20	G
	CH'KD:HMATSUMOTO	2009/05/21	
	APPR:NUKITA	2009/05/21	

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	MNABEI
DATE	'04/07/13
CHECKED BY	KTOJO
DATE	'04/07/13
APPROVED BY	NUKITA
DATE	'04/07/13
MATERIAL NO.	SEE TABLE
DOCUMENT NO.	SD-52559-049
SHEET NO.	4 OF 4
SIZE	A3

TITLE: 0.5 FPC CONN ASSY ZIF FOR SMT EMBSTP PKG -LEAD FREE-

MOLEX INCORPORATED

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