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Part Number: [0525590952](#)
Status: **Active**
Overview:
Description: 0.50mm (.020") Pitch FFC/FPC Connector, Vertical, SMT, ZIF, 9 Circuits, Lead-free, Gold (Au) Contact 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) 9
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-52559-068, 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 Reviewed

China RoHS



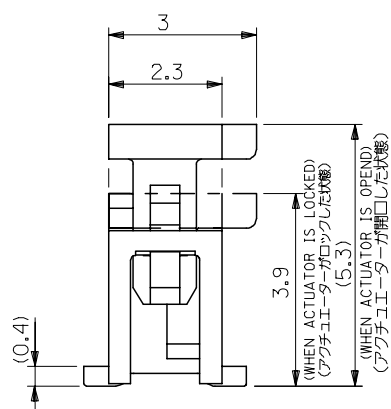
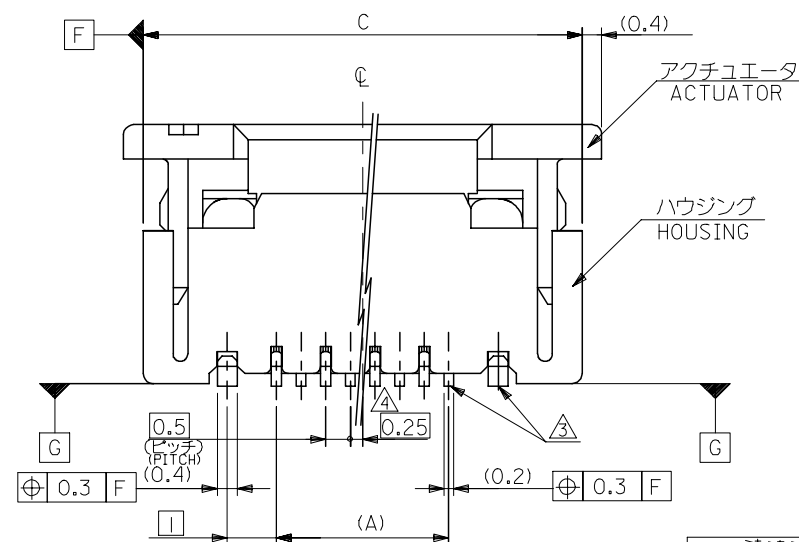
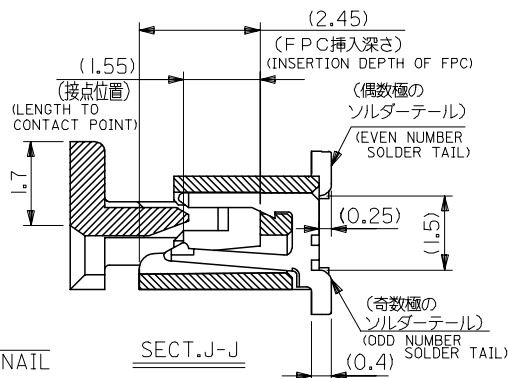
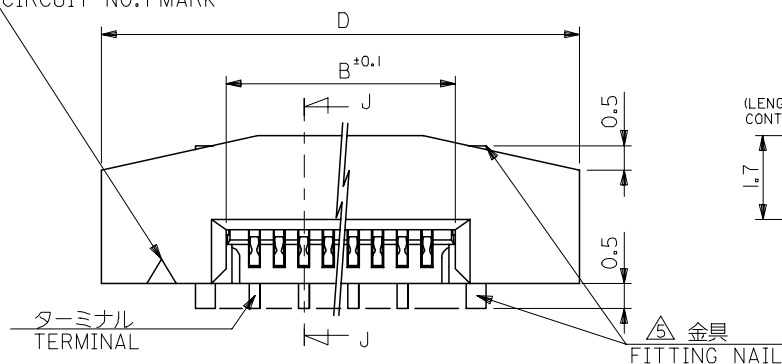
Need more information on product environmental compliance?

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
[52559Series](#)

10 9 8 7 6 5 4 3 2 1

回路番号1用マーク
CIRCUIT NO.1 MARK

注記 NOTES

I. 使用材料 : MATERIAL

ハウジング : 46NYLON UL94V-0
HOUSINGアクチュエータ : PPS UL94V-0
ACTUATORターミナル : リン青銅 (t=0.2)
TERMINAL 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 : リン青銅 (t=0.4)
FITTING NAIL 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 MINIMUM2. 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 ソルダータ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 パターンはくり止め用金具。
FITTING NAIL FOR PREVENTION OF PEELING OF P.C.B. PATTERN.△6 R.O. 3は、FPCの導体部にかからないこと。
R.O.3 MUST NOT BE OVERLAPPED TO PATTERN OF FPC.

MODEL NO. 52559-**79

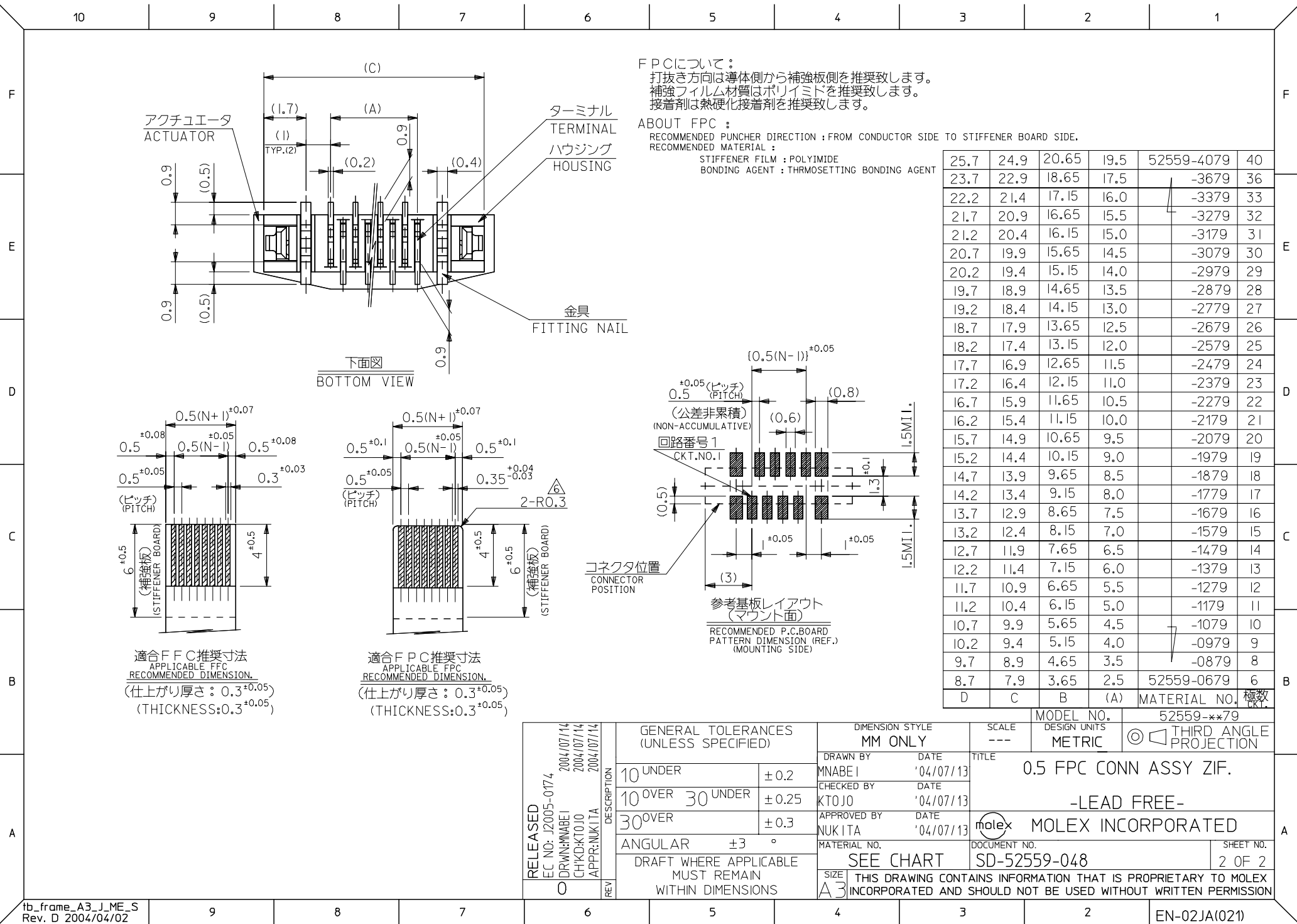
GENERAL TOLERANCES
(UNLESS SPECIFIED)DIMENSION STYLE
MM ONLYSCALE
---DESIGN UNITS
METRICTHIRD ANGLE
PROJECTIONRELEASED
EC NO: J2005-0174
DRWN: MNABE
CHKD: KTOJO
APPR: NUKITA
REV
0

DESCRIPTION

10 UNDER	±0.2
10 OVER 30 UNDER	±0.25
30 OVER	±0.3
ANGULAR	±3 °
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

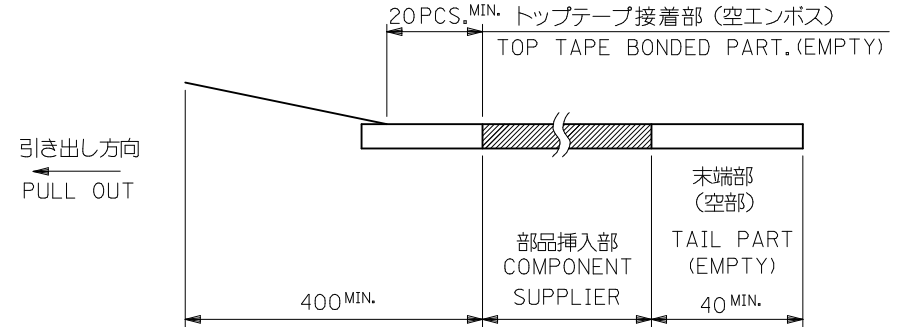
DRAWN BY MNABE	DATE '04/07/13
CHECKED BY KTOJO	DATE '04/07/13
APPROVED BY NUKITA	DATE '04/07/13
MATERIAL NO.	DOCUMENT NO.
SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

TITLE 0.5 FPC CONN ASSY ZIF. -LEAD FREE- MOLEX INCORPORATED	SHEET NO. 1 OF 2
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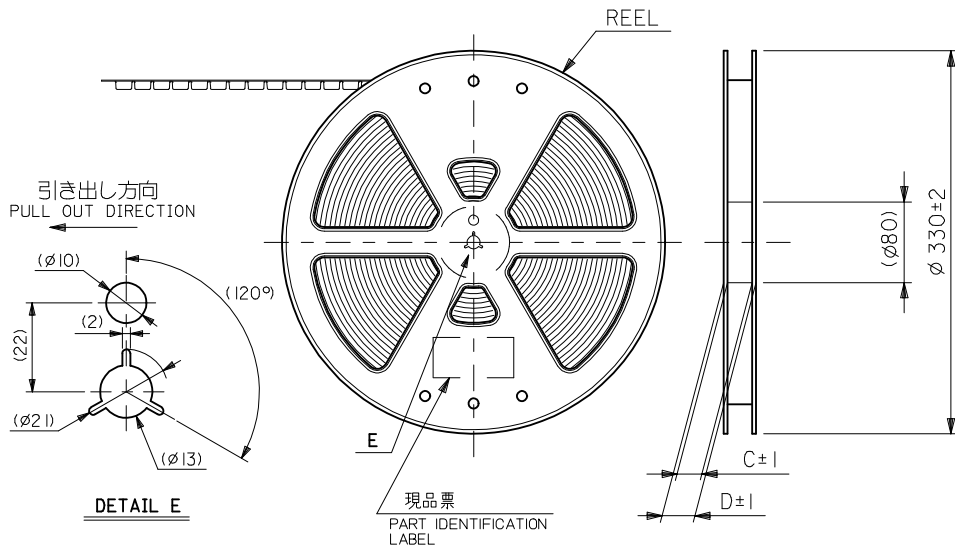
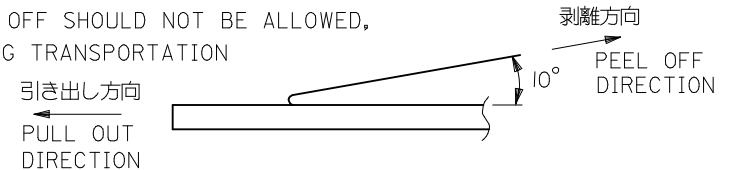


注記 NOTES

- 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 SHOULD BE LOCKED
RE DETAILED DIMENSIONS,SEE ASSY DRAWING
- 梱包数量：1000個／リール
NUMBER OF CONNECTORS:1000PCS/REEL
- リードテープ長さ LEAD TAPE LENGTH



- 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



- 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>

- 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.
- 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		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---		52559-**52 MODEL NO.	
EC NO: J2009-2061		10 UNDER ±0.2		DRAWN BY MNABEI		DATE '04/07/13		DESIGN UNITS METRIC	
DRWN:TKN		10 OVER 30 UNDER ±0.25		CHECKED BY KTOJO		DATE '04/07/13		THIRD ANGLE PROJECTION	
CHKD:HMATSUMOTO		30 OVER ±0.3		APPROVED BY NUKITA		DATE '04/07/13		0.5 FPC CONN ASSY ZIF FOR SMT EMBSTP PKG -LEAD FREE-	
APPR:NUKITA		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		MOLEX INCORPORATED	
REV		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SD-52559-049	
G								1 OF 4	

F

E

D

C

B

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F

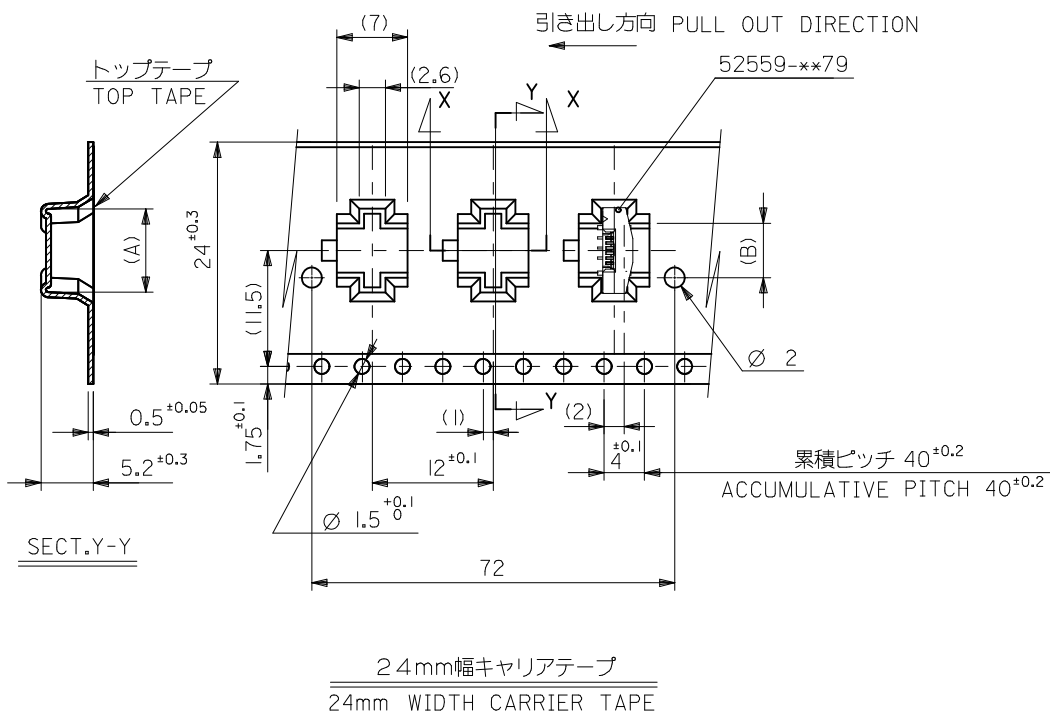
E

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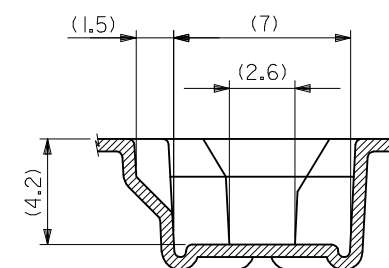
B

A



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
キャリアテープ幅 CARRIER TAPE WIDTH	D	C	6.9	9.8	52559-0952	9
			5.4	8.3	52559-0652	6
			(B)	(A)	MATERIAL NO.	CIRCUIT NO.

REVISED EC NO: J2009-2061 DRWN:TKN CHKD:HMATSUMOTO APPR:NUKITA REV G	DESCRIPTION 2009/05/20 2009/05/21 2009/05/21	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
		10 UNDER ± 0.2	MNABEI	DATE '04/07/13	TITLE 0.5 FPC CONN ASSY ZIF FOR SMT EMBSTP PKG -LEAD FREE- MOLEX INCORPORATED			
		10 OVER 30 UNDER ± 0.25	CHECKED BY KTOJO	DATE '04/07/13				
		30 OVER ± 0.3	APPROVED BY NUKITA	DATE '04/07/13				
		ANGULAR ± 3 °	MATERIAL NO.					
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-52559-049		2 OF 4	
	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							



SECT.X-X

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

REVISED EC NO: J2009-2061 DRAWN:TKON CHKD:HWATSUMOTO APPR:NUKITA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	DRAWN BY MNABE I	DATE '04/07/13	TITLE 0.5 FPC CONN ASSY ZIF FOR SMT EMBSTP PKG -LEAD FREE-				
		10 OVER 30 UNDER	± 0.25	CHECKED BY KTOJO	DATE '04/07/13					
		30 OVER	± 0.3	APPROVED BY NUKITA	DATE '04/07/13	MOLEX INCORPORATED				
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-52559-049		3 OF 4			
	REV	G	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

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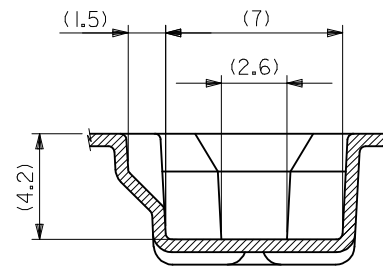
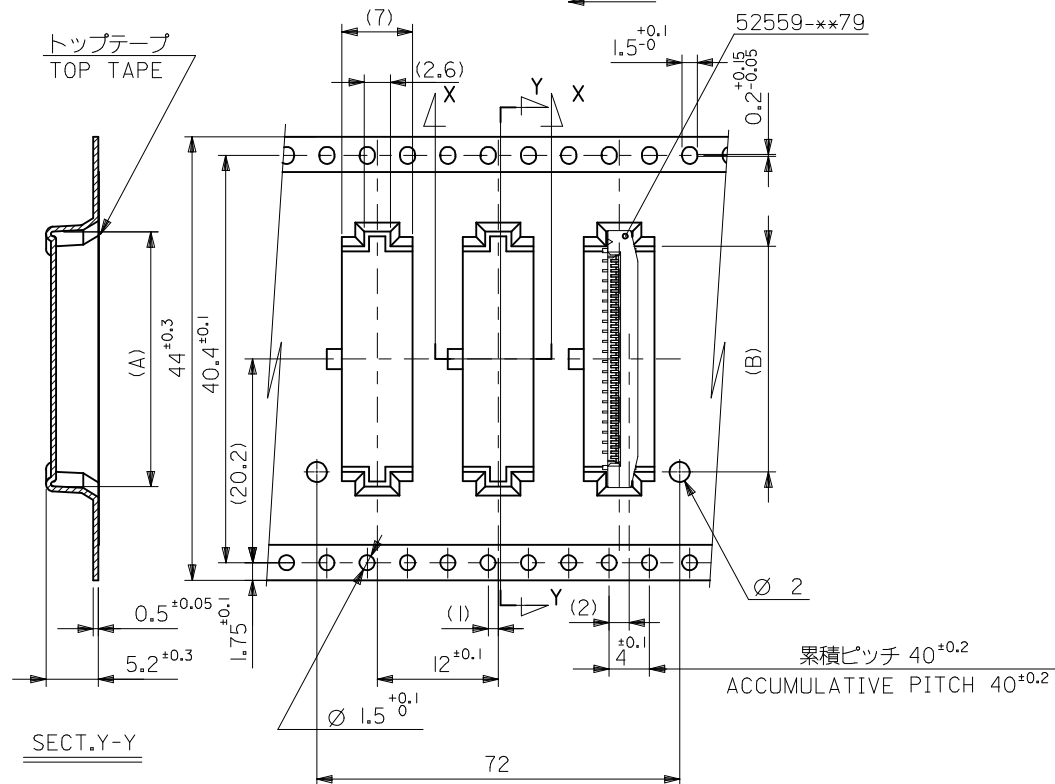
4

3

2

1

引き出し方向 PULL OUT DIRECTION



44mm幅キャリアテープ
44mm WIDTH CARRIER TAPE

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

REVISED EC NO.: J2009-2061 DRWN:TKON CHKD:HMATSUMOTO APPR:NUKITA 2009/05/21 2009/05/21 2009/05/21	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	DRAWN BY MNABEI	DATE '04/07/13	TITLE 0.5 FPC CONN ASSY ZIF FOR SMT EMBSTP PKG -LEAD FREE-				
		10 OVER 30 UNDER	± 0.25	CHECKED BY KTOJO	DATE '04/07/13					
		30 OVER	± 0.3	APPROVED BY NUKITA	DATE '04/07/13					
		ANGULAR ±3 °		MATERIAL NO.			DOCUMENT NO.			SHEET NO.
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE			SD-52559-049			4 OF 4	
REV			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

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