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Part Number: [0525590652](#)
Status: **Active**
Overview:
Description: 0.50mm (.020") Pitch FFC/FPC Connector, Vertical, SMT, ZIF, 6 Circuits, Lead-free, Gold 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) 6
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

China RoHS



Not Halogen-Free

Need more information on product environmental compliance?

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, [click here](#)

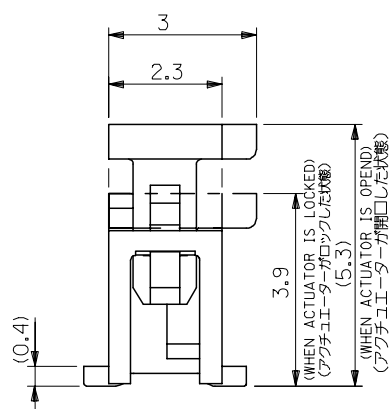
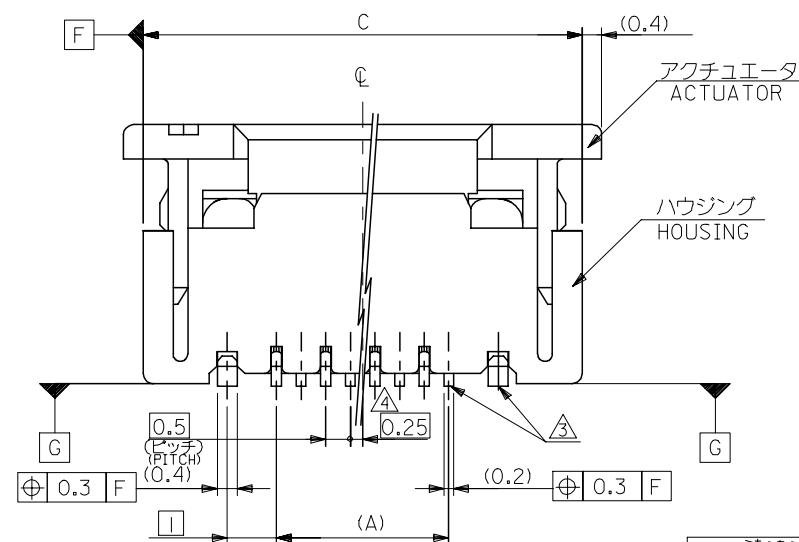
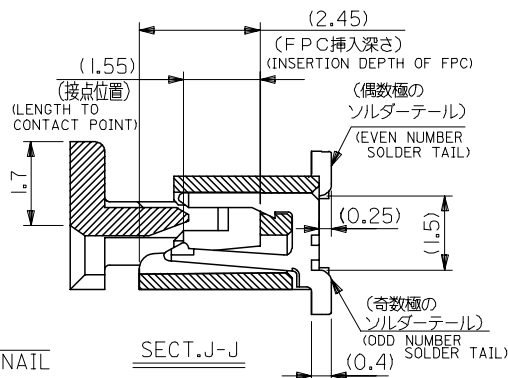
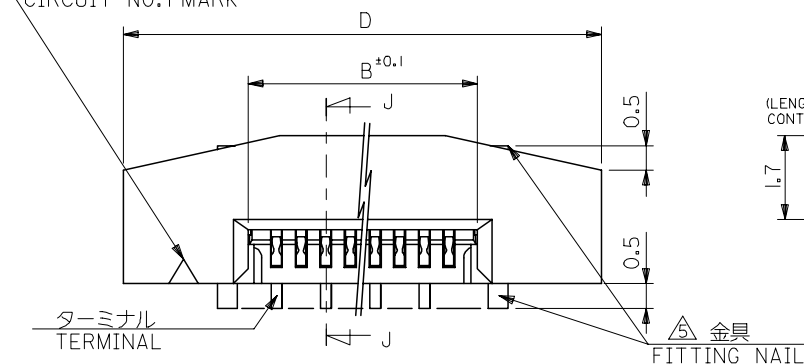
Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series
[52559Series](#)

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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

: リン青銅 (t=0.4)

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 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.

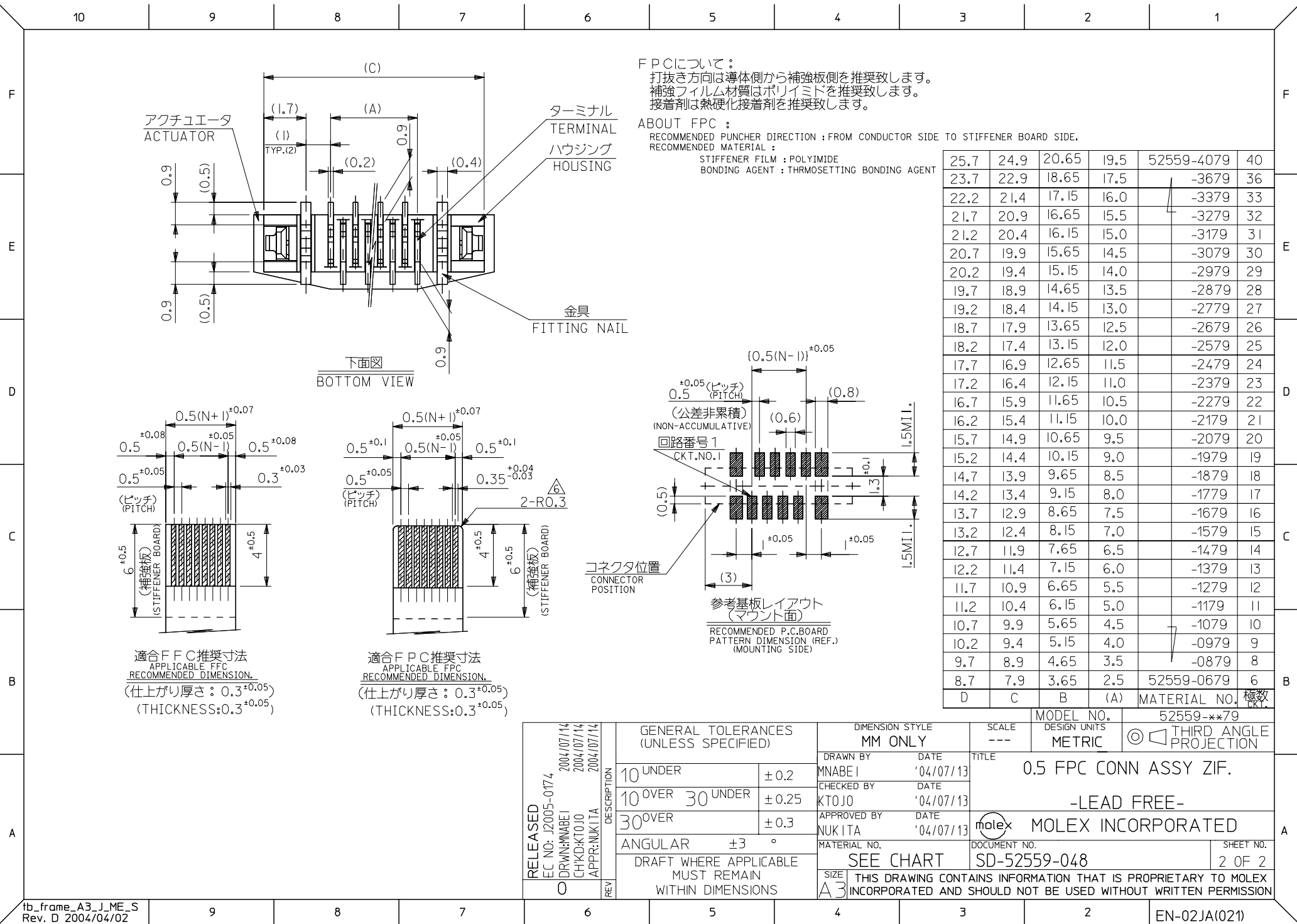
△4 偶数極に適用。
APPLY FOR EVEN CIRCUIT.

△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.

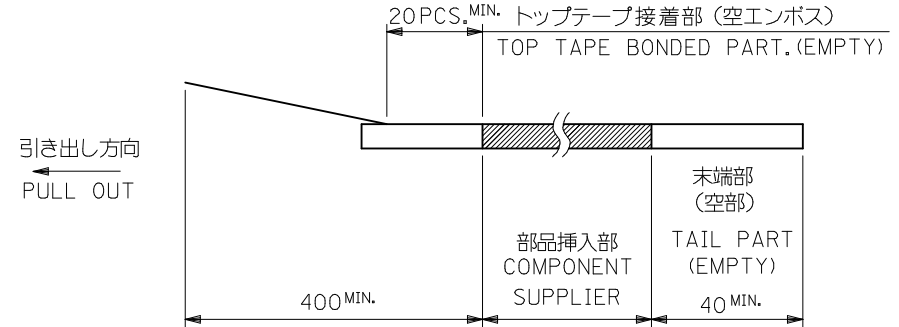
MODEL NO. 52559-**79

RELEASED EC NO: J2005-0174 DRAWN: MNABE I CHKD: KTOJO 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.				
		10 OVER 30 UNDER	±0.25	CHECKED BY KTOJO	DATE '04/07/13					
		30 OVER	±0.3	APPROVED BY NUKITA	DATE '04/07/13	-LEAD FREE- MOLEX INCORPORATED				
		ANGULAR ±3 °		MATERIAL NO.						
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-52559-048			1 OF 2	
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								
0	REV									

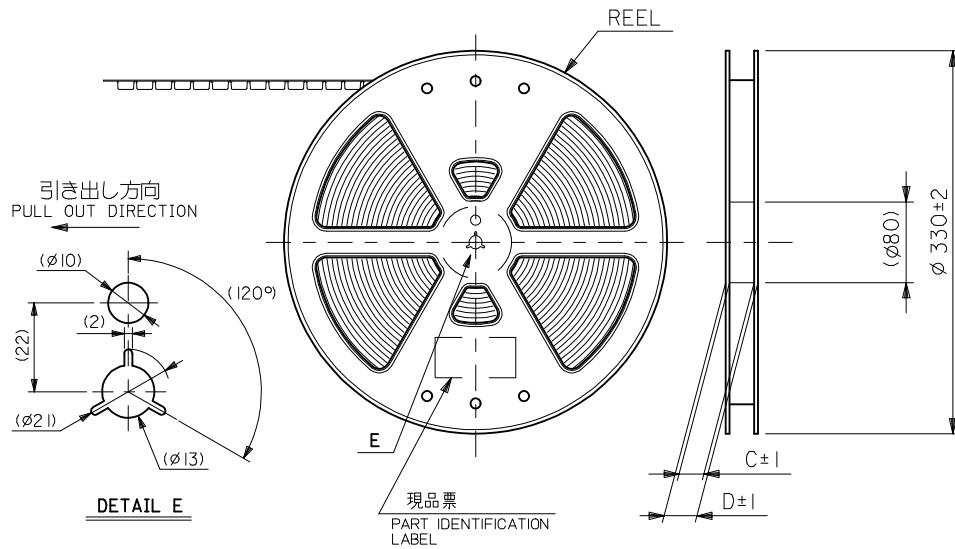
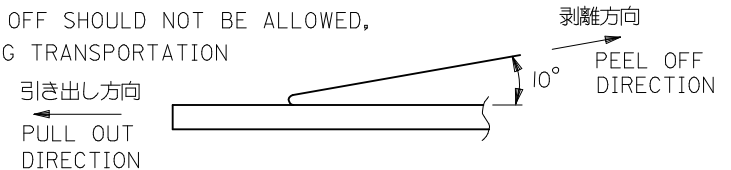


注記 NOTES

- 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	EC NO: J2009-2061 DRWN:TKN CHKD:HMATSUMOTO APPR:NUKITA	2009/05/20 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 SHEET 2-4		SD-52559-049		1 OF 4	
G	REV			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

10 9 8 7 6 5 4 3 2 1

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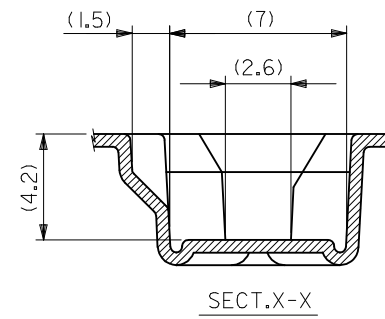
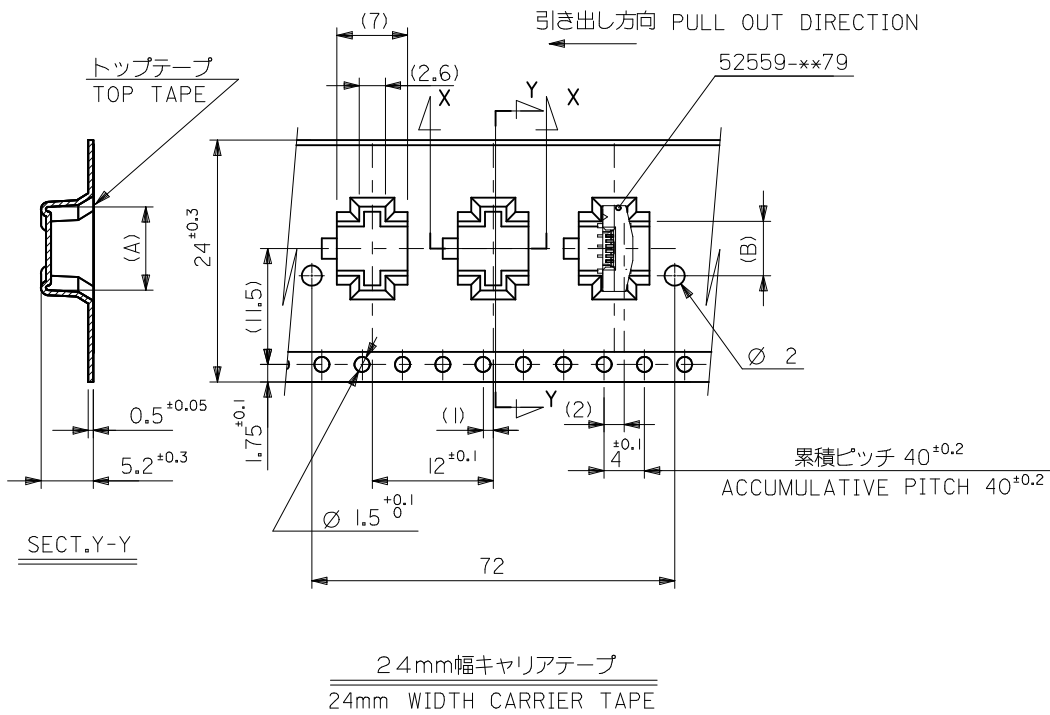
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24	29.4	25.4	14.4	17.3	52559-2452	24
			13.9	16.8	52559-2352	23
			12.9	15.8	52559-2152	21
			12.4	15.3	52559-2052	20
			10.9	13.8	52559-1752	17
			10.4	13.3	52559-1652	16
			9.9	12.8	52559-1552	15
			9.4	12.3	52559-1452	14
			8.4	11.3	52559-1252	12
			7.4	10.3	52559-1052	10
			6.9	9.8	52559-0952	9
			5.4	8.3	52559-0652	6
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:TKN CHKD:HMATSUMOTO APPR:NUKITA G	2009/05/20 2009/05/21 2009/05/21	DESCRIPTION REV	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	MOLEX INCORPORATED					
			ANGULAR ±3 °		MATERIAL NO.			DOCUMENT NO.			SHEET 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												

10 9 8 7 6 5 4 3 2 1

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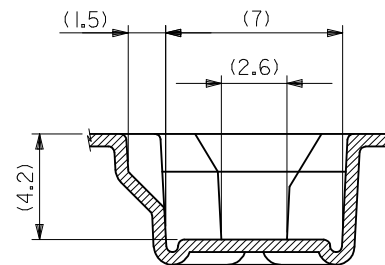
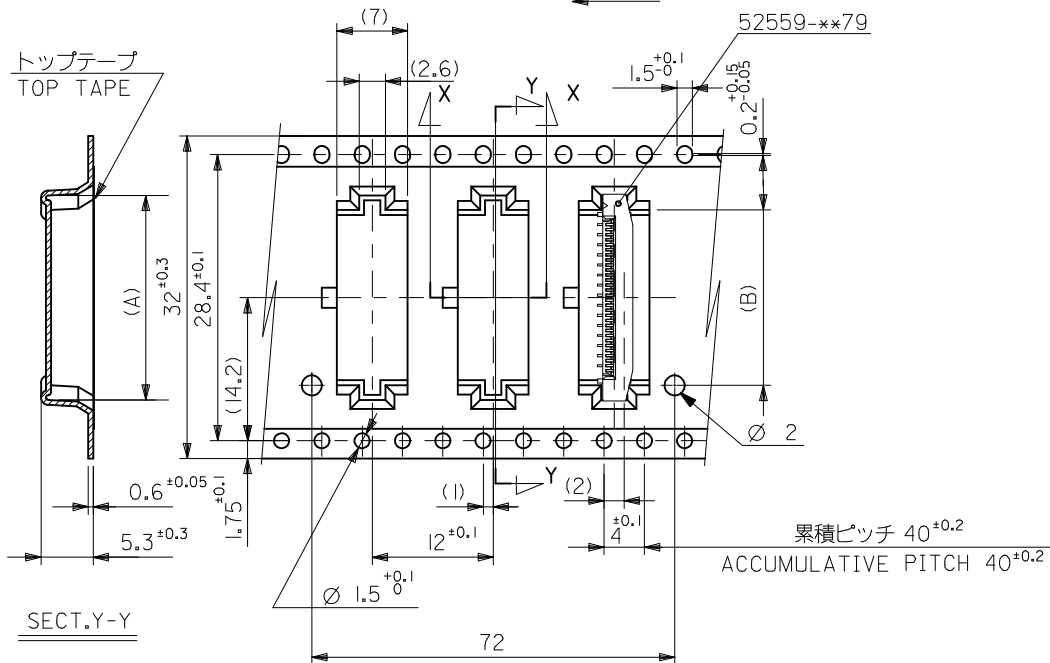
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引き出し方向 PULL OUT DIRECTION



SECT.X-X

32mm幅キャリアテープ
32mm WIDTH CARRIER TAPE

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 DRWN:TKGN CHKD:HMATSUMOTO APPR:NUKITA G	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
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		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		
	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

10 9 8 7 6 5 4 3 2 1

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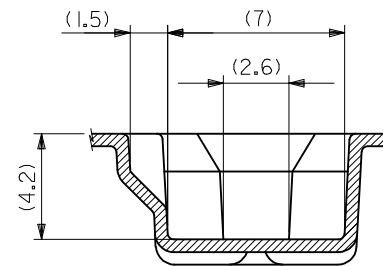
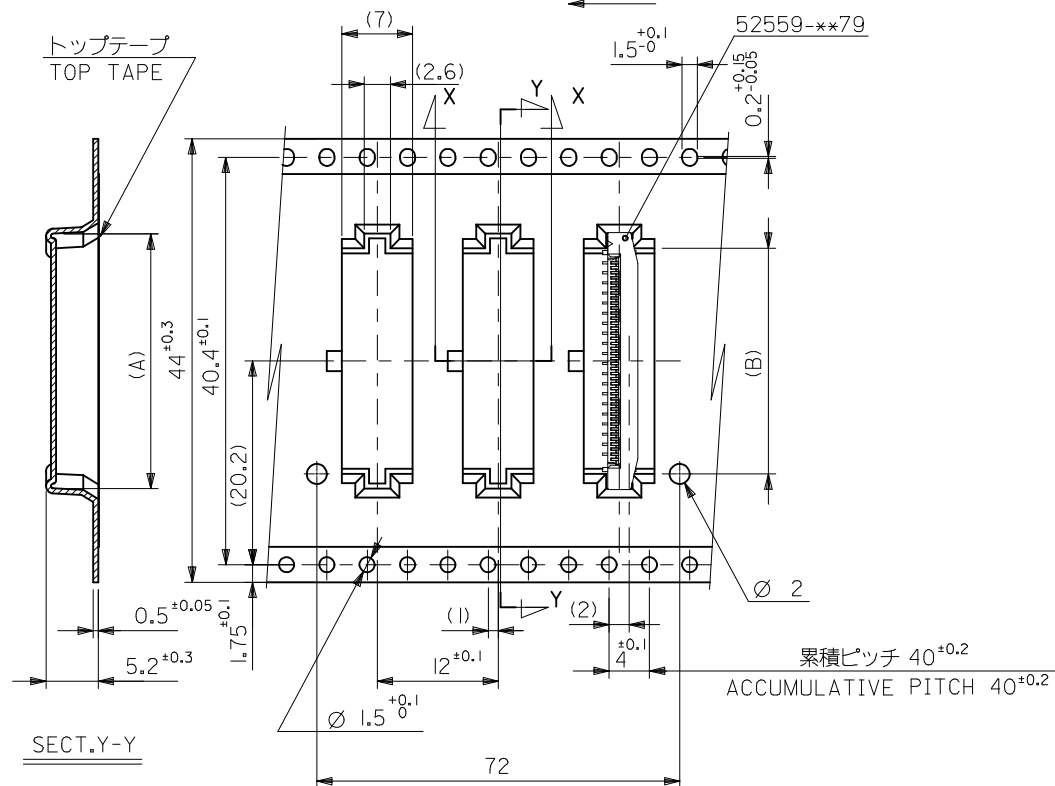
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引き出し方向 PULL OUT DIRECTION



SECT.X-X

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			(B)	(A)	MATERIAL NO.	CIRCUIT NO.

REVISED EC NO.: J2009-2061 DRWN:TKON CHKD:HMATSUMOTO APPR:NUKITA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION
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		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		4 OF 4	
	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							