

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0525593252

Status:

Active

Overview:

Description:

0.50mm (.020") Pitch FFC/FPC Connector, Vertical, SMT, ZIF, 32 Circuits, Lead-free, Gold Contact Plating, High Barrier Packaging

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

Agency Certification

UL

E29179

General

Product Family

FFC/FPC Connectors

Series

52559

Overview

ffc_fpc_smt

Product Name

N/A

Physical

Circuits (Loaded)

32

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

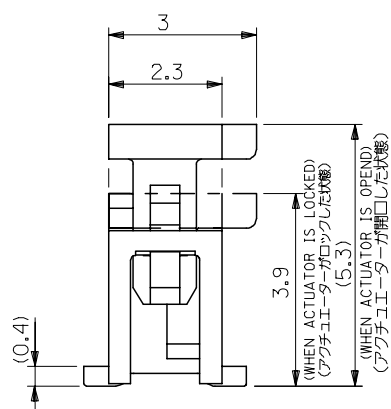
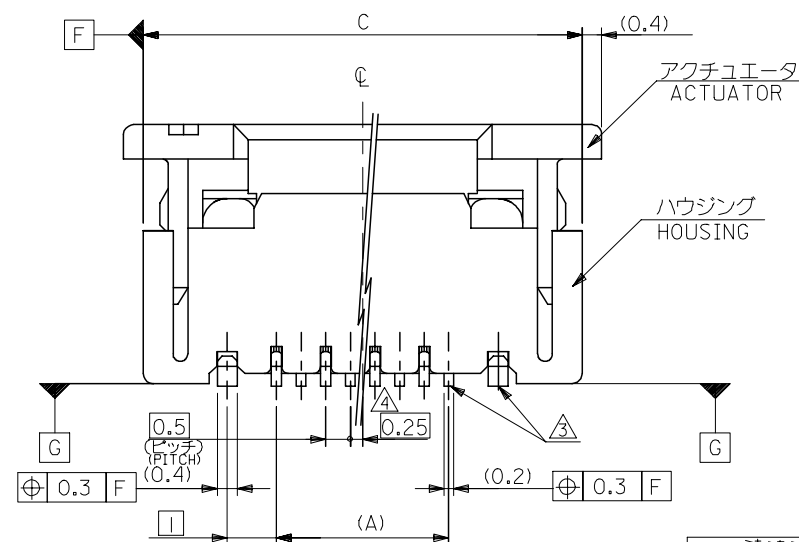
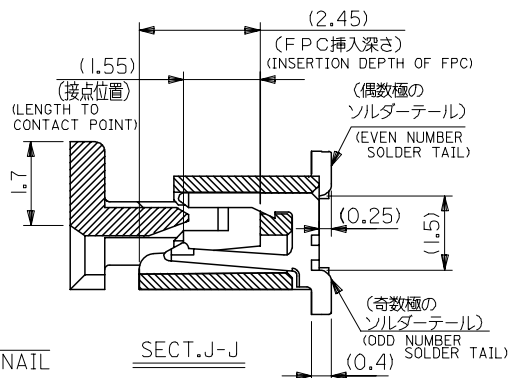
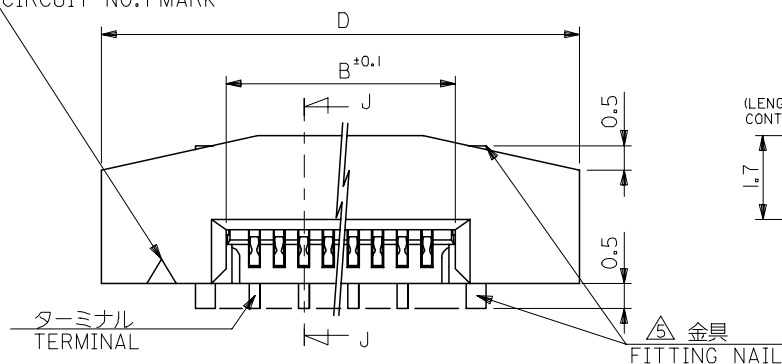
PS-52559-013, RPS-52559-062, RPS-52559-064, RPS-52559-068, RPS-52559-070, RPS-52559-072

Sales Drawing

SD-52559-048, SD-52559-049

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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

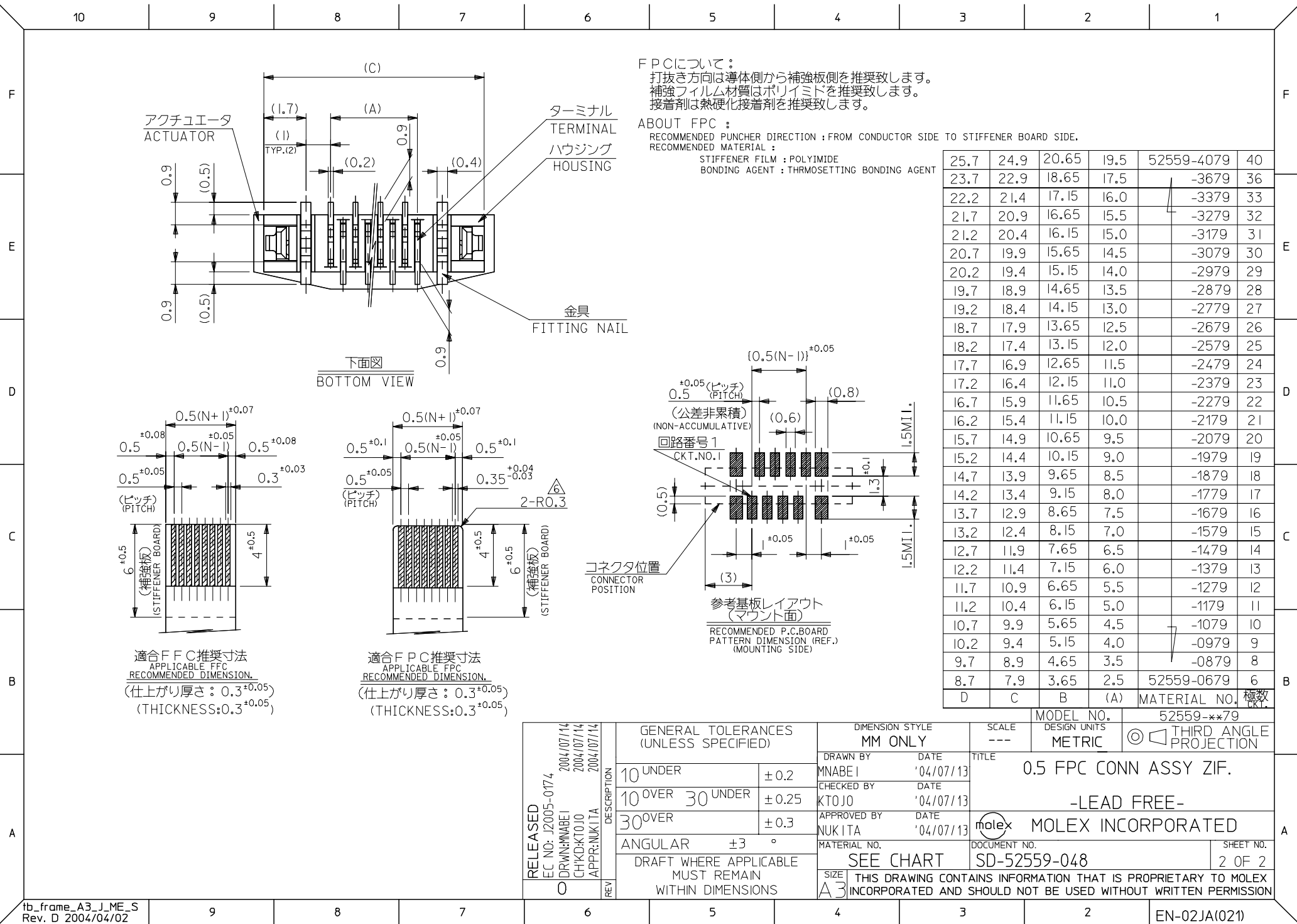
ハウジング : 46NYLON UL94V-0
HOUSINGアクチュエータ : PPS UL94V-0
ACTUATORターミナル : リン青銅 (t=0.2)
TERMINAL PHOS-BRO: 接点部 金メッキ 0.1マイクロメートル以上
CONTACT GOLD 0.1 MICROMETER MINIMUM: 半田付け部 錫メッキ 1.0マイクロメートル以上
TAIL TIN 1.0 MICROMETER MINIMUM: ニッケル下地 1.0マイクロメートル以上
NICKEL (UNDER PLATING) 1.0 MICROMETER MINIMUM

: リン青銅 (t=0.4)

金具
FITTING NAIL: 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.

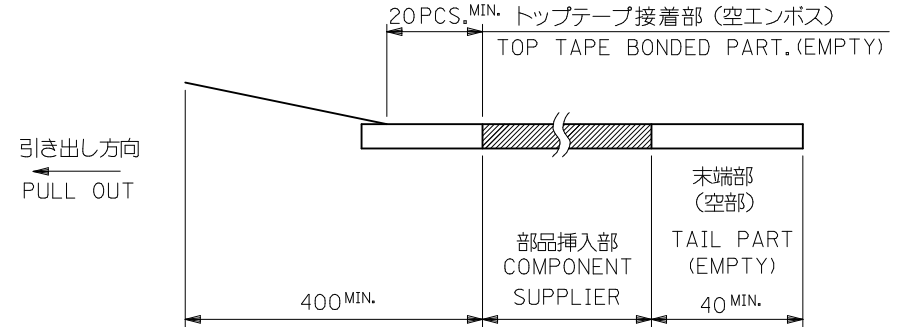
MODEL NO. 52559-**79

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. SEE CHART						
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

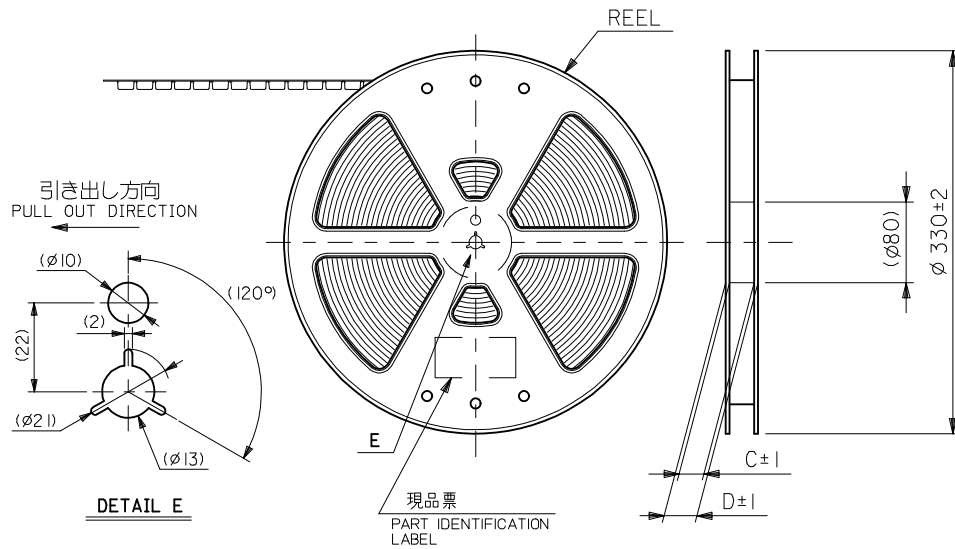
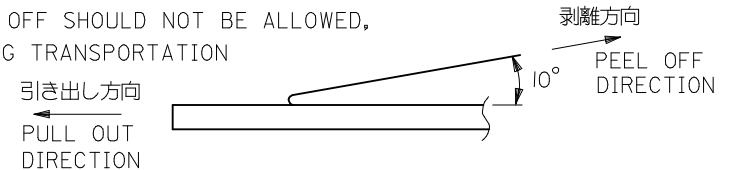


注記 NOTES

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

F

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D

C

B

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F

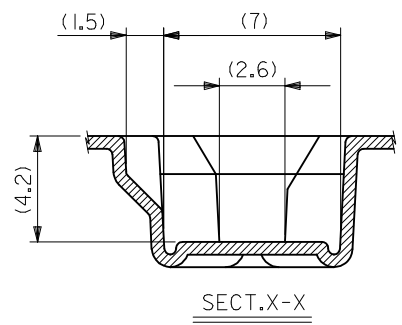
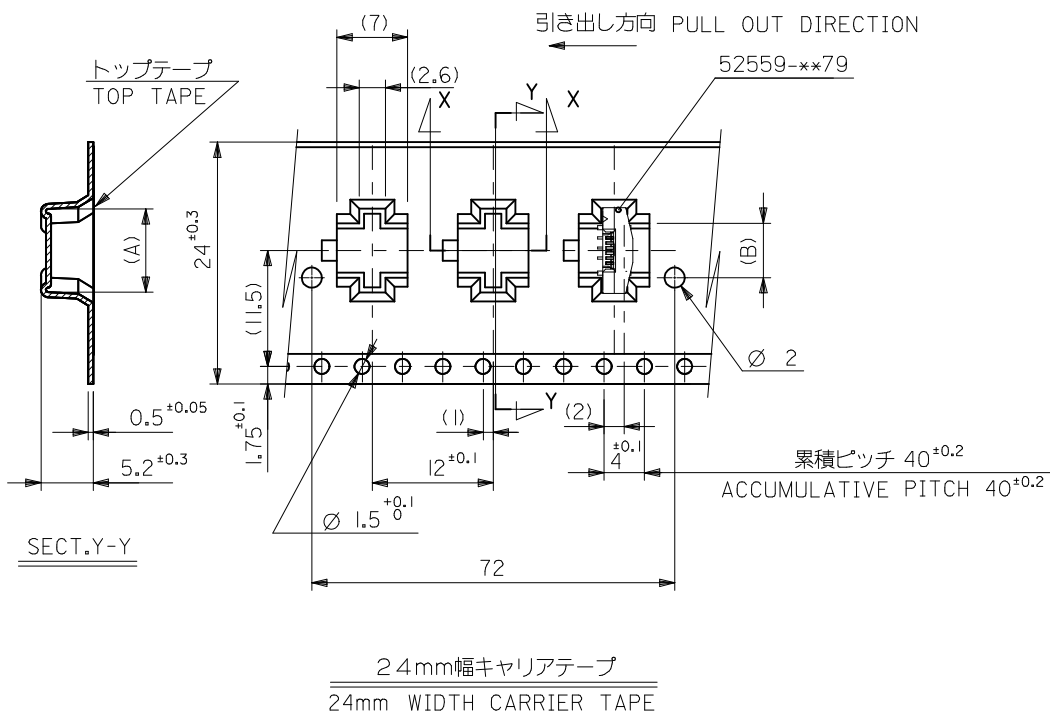
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24	29.4	25.4	14.4	17.3	52559-2452	24		
			13.9	16.8	52559-2352	23		
			12.9	15.8	52559-2152	21		
			12.4	15.3	52559-2052	20		
			10.9	13.8	52559-1752	17		
			10.4	13.3	52559-1652	16		
			9.9	12.8	52559-1552	15		
			9.4	12.3	52559-1452	14		
			8.4	11.3	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	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---		52559-**-52 DESIGN UNITS METRIC		MODEL NO.					
		10 UNDER ±0.2		DRAWN BY MNABEI		DATE '04/07/13		TITLE 0.5 FPC CONN ASSY ZIF FOR SMT EMBSTP PKG -LEAD FREE- MOLEX INCORPORATED		THIRD ANGLE PROJECTION					
		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.		SD-52559-049		SHEET NO. 2 OF 4					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		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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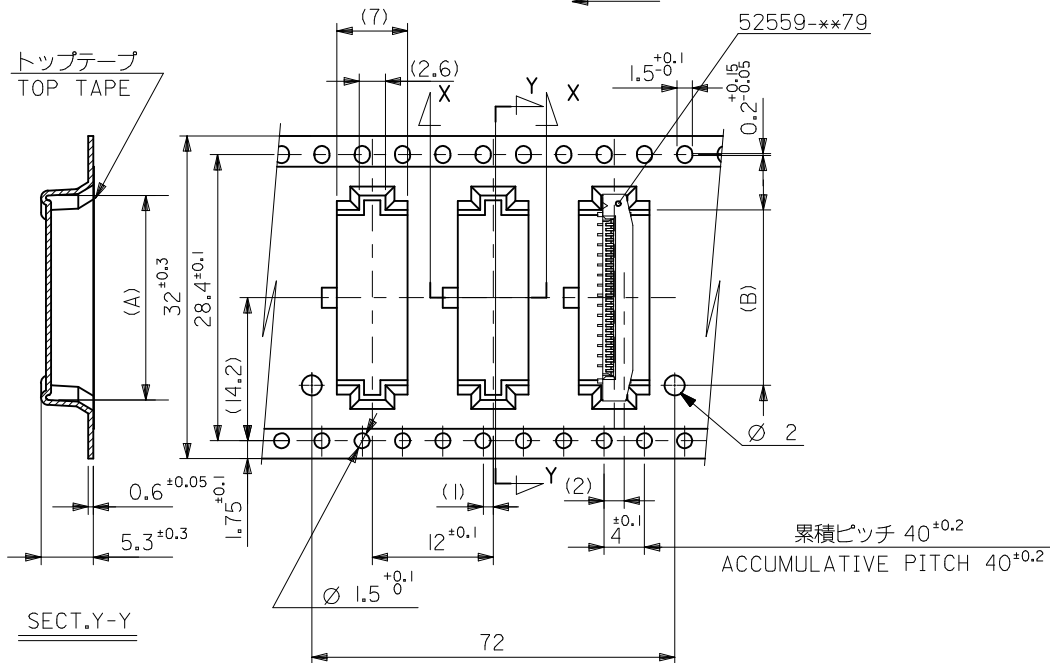
D

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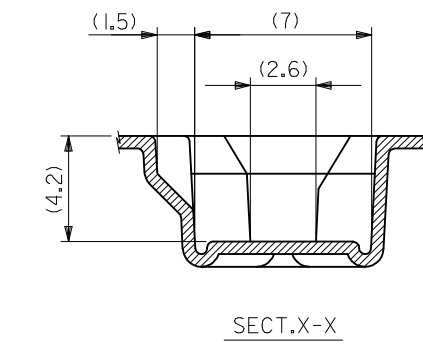
B

A

引き出し方向 PULL OUT DIRECTION



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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		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		3 OF 4			
REV			SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

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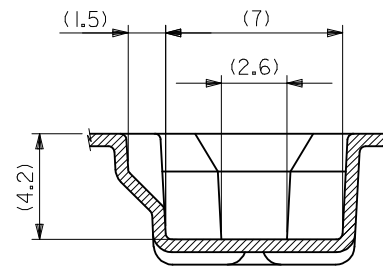
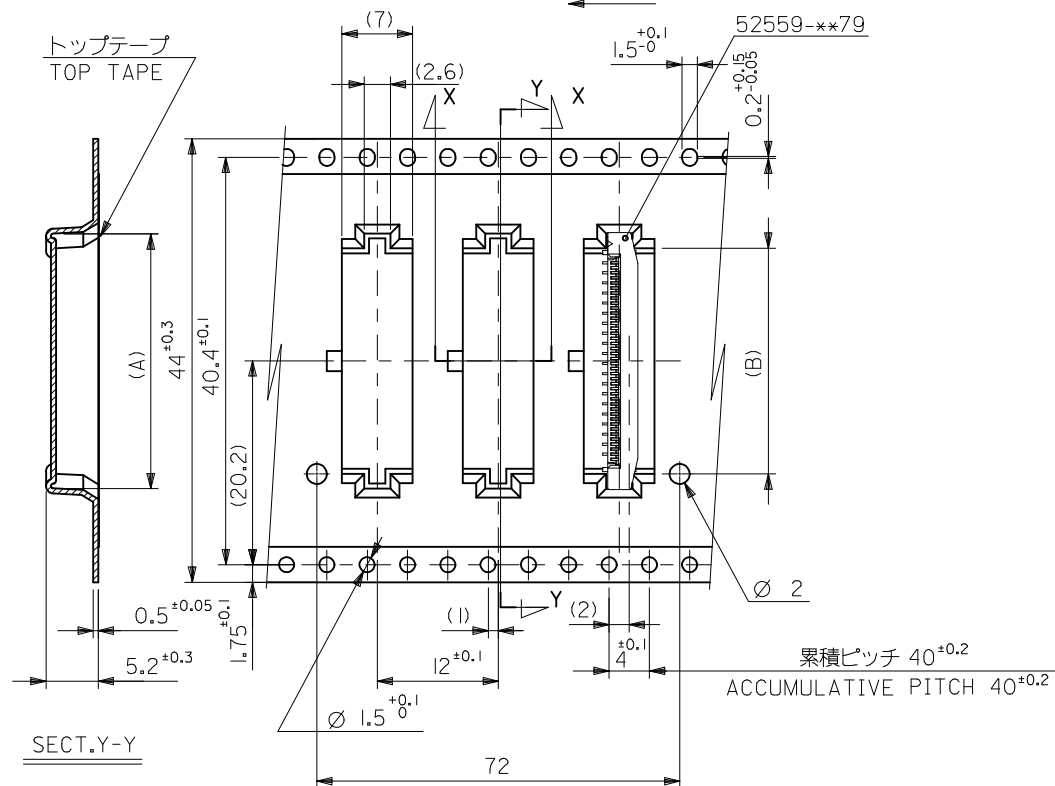
4

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2

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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
キャリアテープ幅 CARRIER TAPE WIDTH	D	C	(B)	(A)	52559-3652	36
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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		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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