

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0525591052

Status:

Active

Overview:

Description:

0.50mm (.020") Pitch FFC/FPC Connector, Vertical, SMT, ZIF, 10 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)

10

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](#)

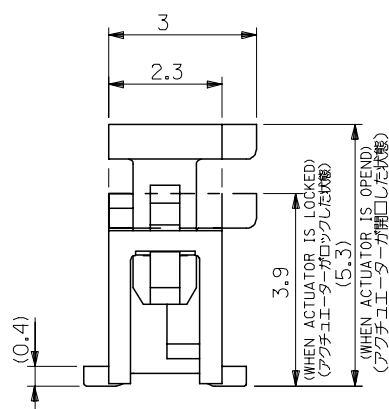
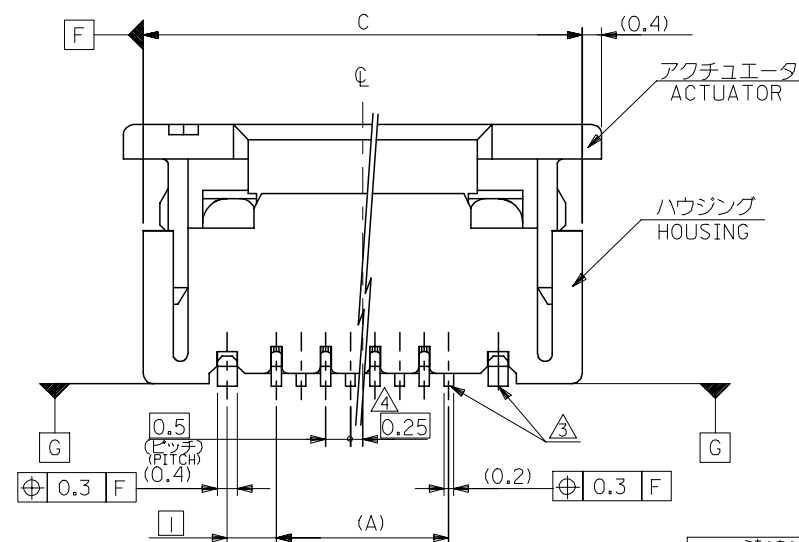
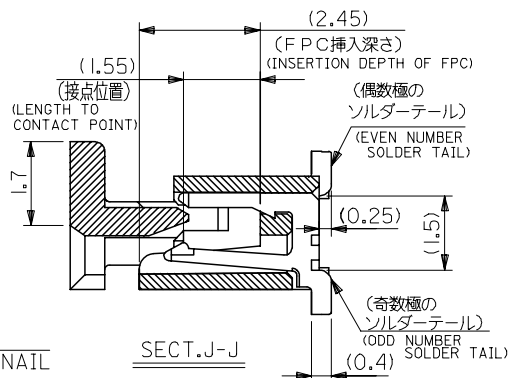
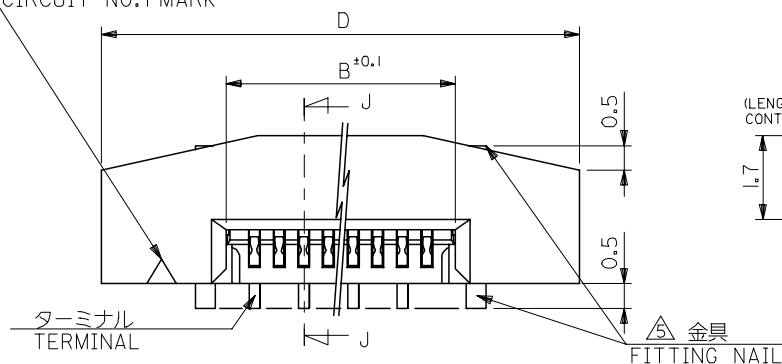
Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series

52559Series

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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

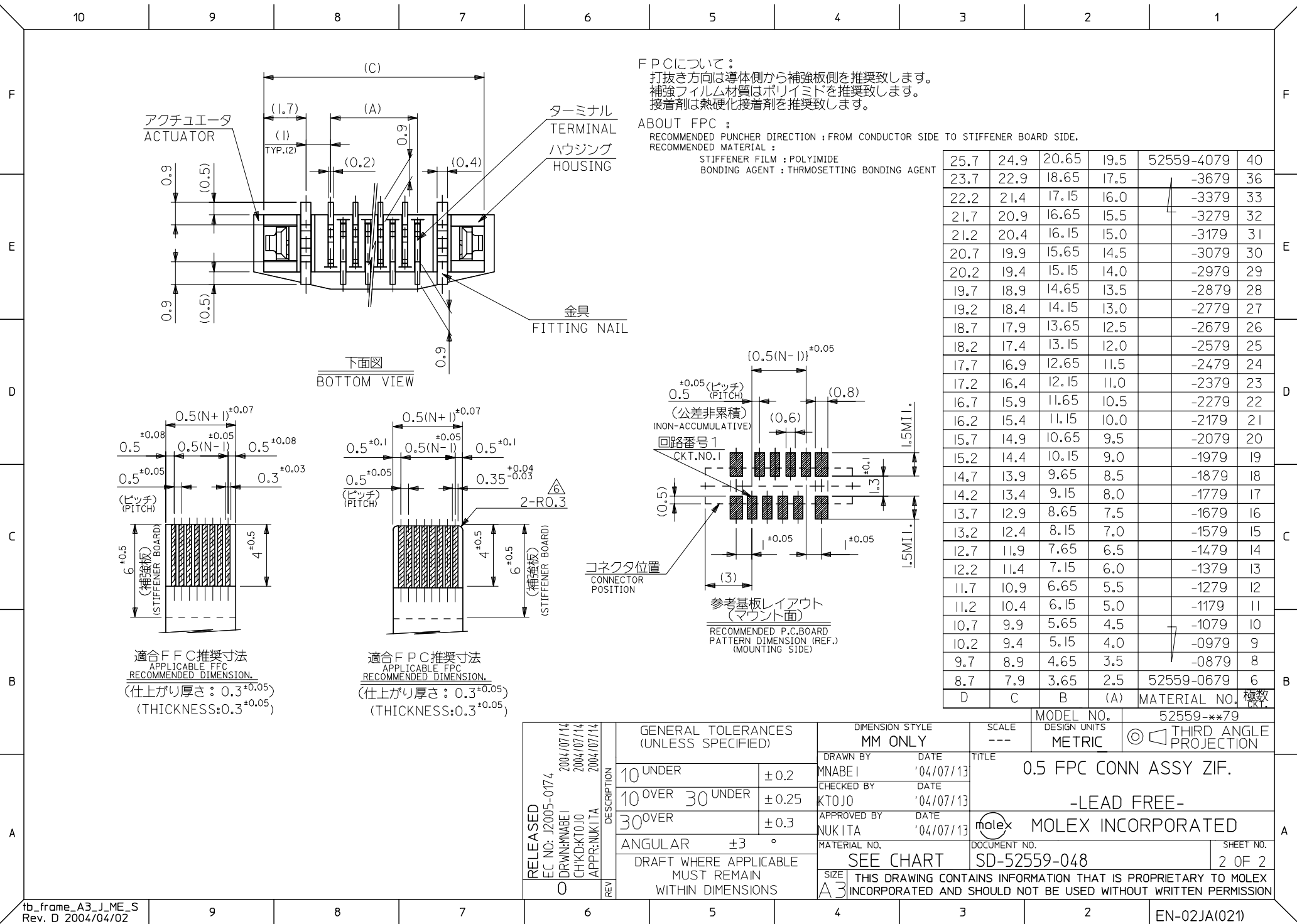
GENERAL TOLERANCES
(UNLESS SPECIFIED)DIMENSION STYLE
MM ONLYSCALE
---DESIGN UNITS
METRICTHIRD ANGLE
PROJECTIONRELEASED
EC NO: J2005-0174
DRWN: MNABE
CHKD: KTOJO
APPR: NUKITA
REV
0

DESCRIPTION

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

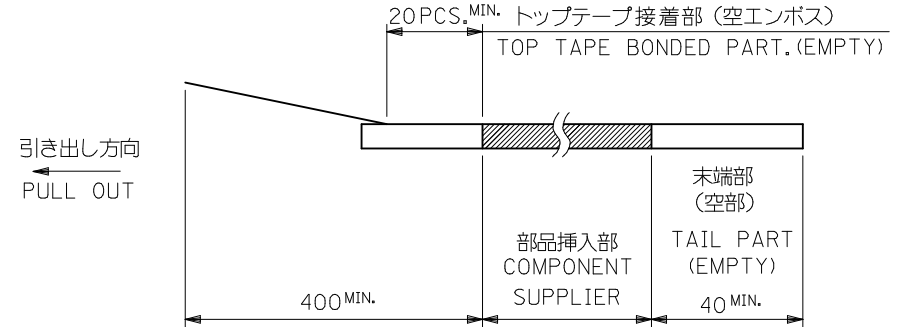
DRAWN BY MNABE	DATE '04/07/13
CHECKED BY KTOJO	DATE '04/07/13
APPROVED BY NUKITA	DATE '04/07/13
MATERIAL NO. SEE CHART	
SIZE A3	

TITLE 0.5 FPC CONN ASSY ZIF. -LEAD FREE- MOLEX INCORPORATED	DOCUMENT NO. SD-52559-048	SHEET NO. 1 OF 2
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		



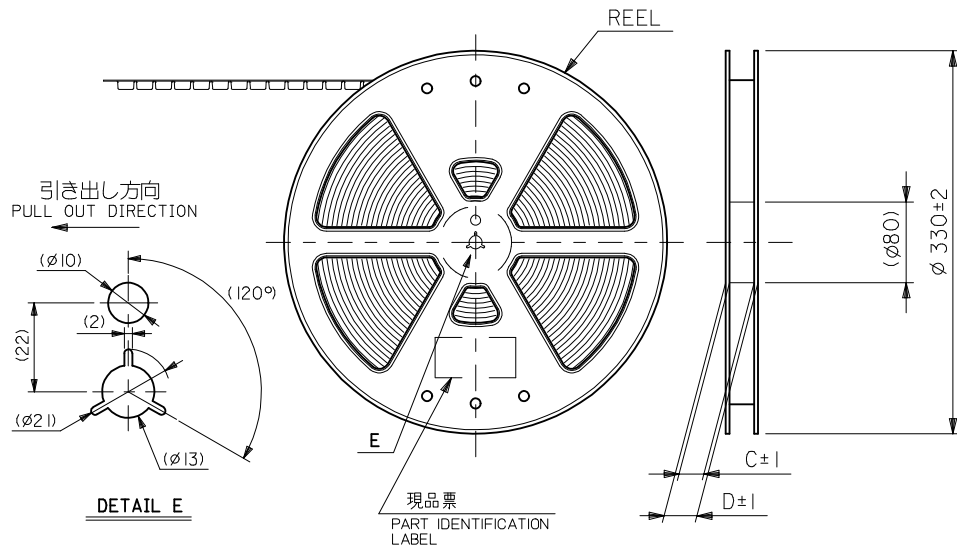
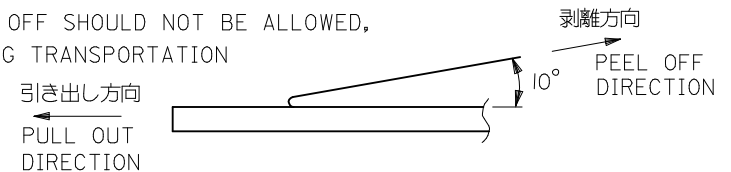
注記 NOTES

- 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

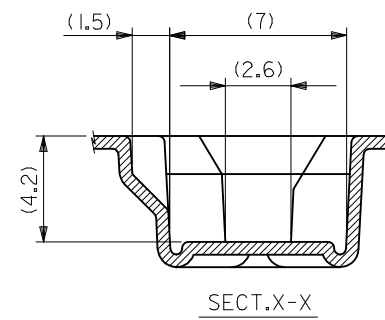


- 材料
キャリアテープ：ポリプロピレン (PP)
トップテープ：PET, PE, PEF
リール：ポリスチレン (PS) <リサイクル材を含む>

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 2009/05/20 CHKD:HMATSUMOTO 2009/05/21 APPR:NUKITA 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 MNAEI	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									



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:TKON	2009/05/20	CHKD:HWATSUMOTO	2009/05/21	APPR:NUKITA	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 MNAMEI	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		2 OF 4	
G	REV	A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												

F

E

D

C

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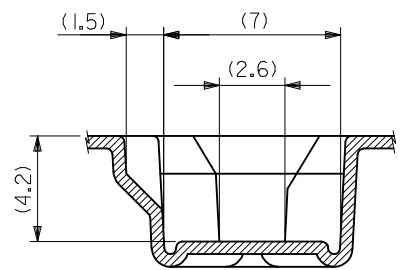
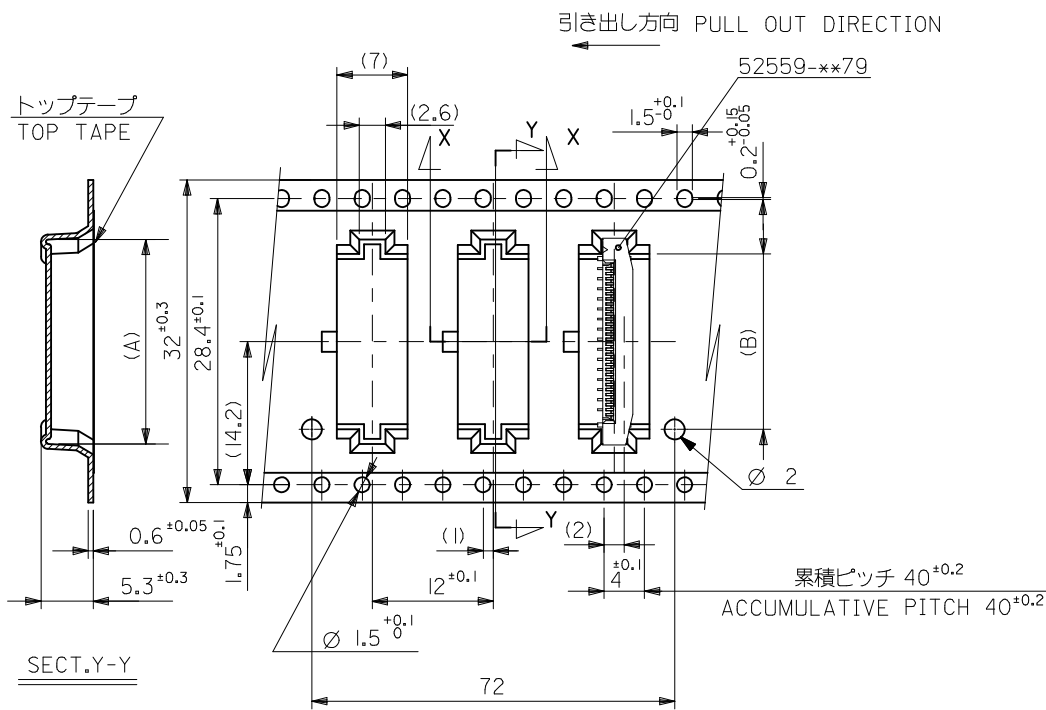
E

D

C

B

A



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 2009/05/20 2009/05/21 2009/05/21	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---		52559-**52 DESIGN UNITS METRIC		MODEL NO.					
		10 UNDER	±0.2	DRAWN BY	DATE	TITLE		0.5 FPC CONN ASSY ZIF FOR SMT EMBSTP PKG -LEAD FREE- MOLEX INCORPORATED SD-52559-049		THIRD ANGLE PROJECTION					
		10 OVER 30 UNDER	±0.25	CHECKED BY	DATE										
		30 OVER	±0.3	APPROVED BY	DATE										
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.							
		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		3 OF 4							

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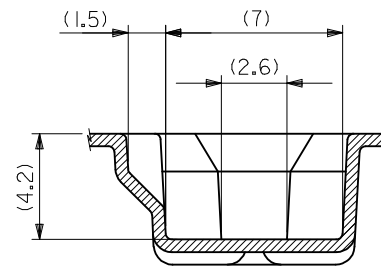
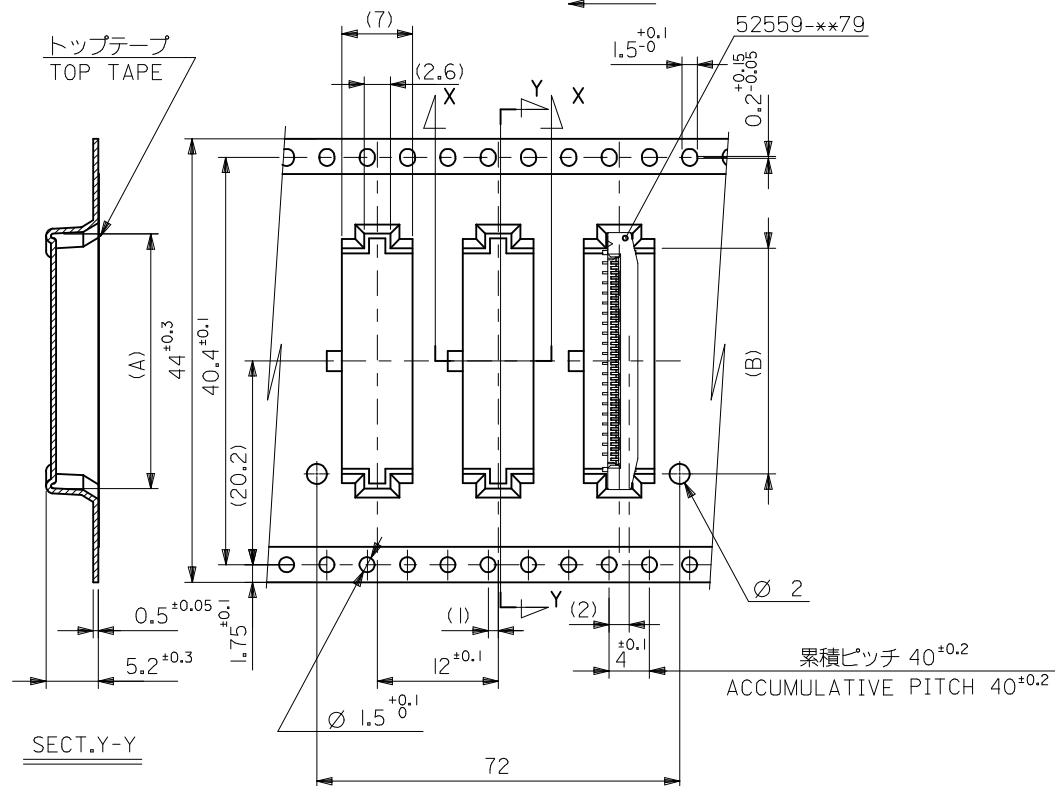
4

3

2

1

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 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	MOLEX INCORPORATED				
		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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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

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