

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0522711679

Status:

Active

Overview:

Description:

1.00mm (.039") Pitch FFC/FPC Connector, Right Angle, SMT, ZIF, Bottom Contact Style, 16 Circuits, Lead-free, 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

52271Series

Agency Certification

CSA

LR19980

UL

E29179

General

Product Family

FFC/FPC Connectors

Series

52271

Overview

ffc_fpc_smt

Product Name

N/A

Physical

Circuits (Loaded)

16

Color - Resin

Natural

Contact Position

Bottom

Durability (mating cycles max)

30

Entry Angle

90° Angle

Flammability

94V-0

Mated Height (in)

0.118 In

Mated Height (mm)

3.00 mm

Material - Metal

Phosphor Bronze

Material - Plating Mating

Tin-Bismuth

Material - Plating Termination

Tin-Bismuth

Material - Resin

Nylon

Number of Rows

1

Orientation

Right Angle

PCB Locator

No

PCB Retention

Yes

Packaging Type

Embossed Tape on Reel

Pitch - Mating Interface (in)

0.039 In

Pitch - Mating Interface (mm)

1.00 mm

Polarized to PCB

Yes

Stackable

No

Temperature Range - Operating

-40°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-52271-001

Packaging Specification

SPK-52271-001, SPK-52271-002

Product Specification

PS-52271-053, RPS-52271-066, RPS-52271-067, RPS-52271-069, RPS-52271-070, RPS-52271-072, RPS-52271-073, RPS-52271-075, RPS-52271-080, RPS-52271-085, RPS-52271-087, RPS-52271-091

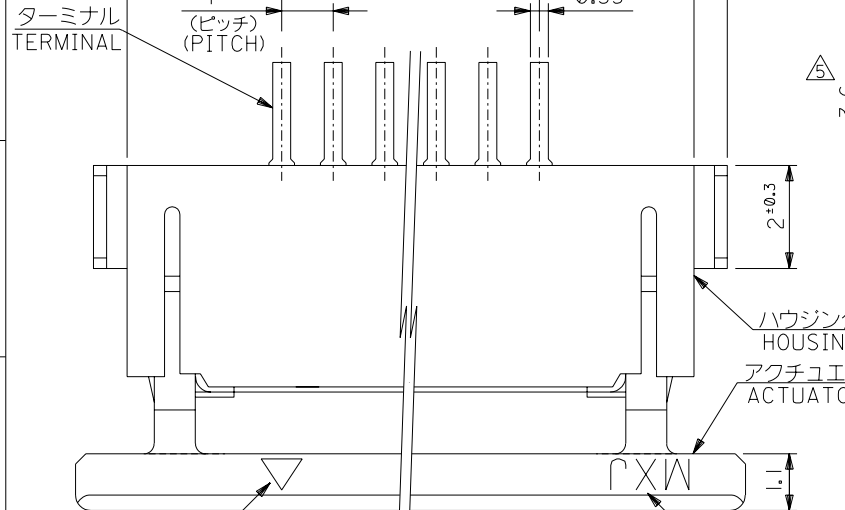
Sales Drawing

SD-52271-036, SD-52271-037

This document was generated on 06/04/2010

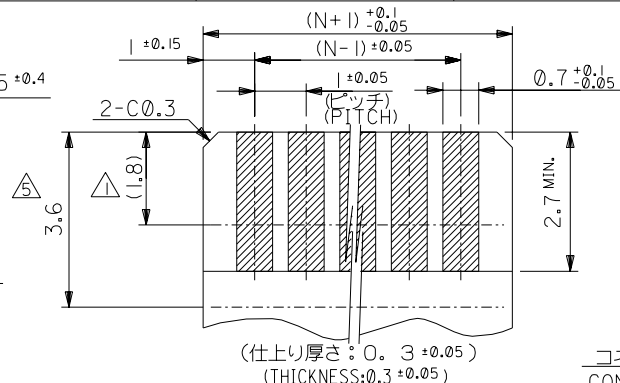
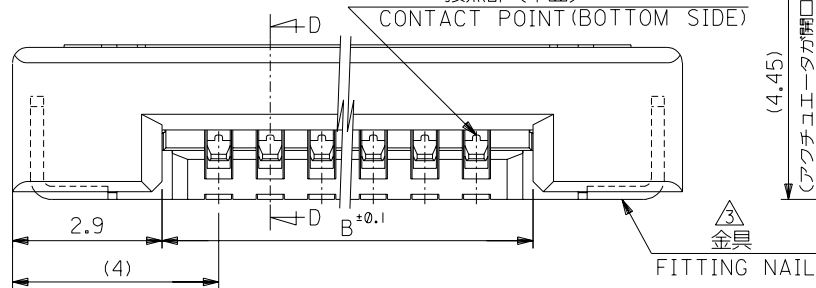
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

ターミナル
TERMINAL

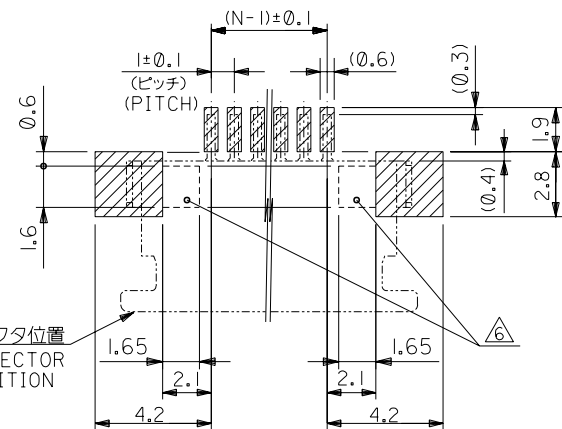
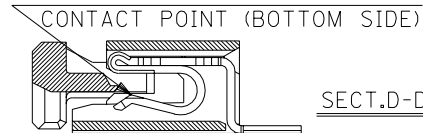
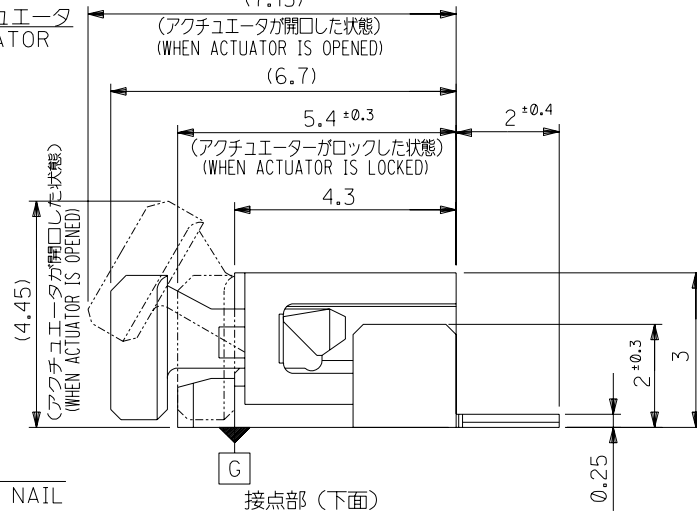


回路番号1用マーク
CKT. NO.1 MARK

トレードマーク
TRADE MARK
接点部 (下面)
CONTACT POINT (BOTTOM SIDE)



適合FPC推奨寸法
RECOMMENDED APPLICABLE
FPC LAYOUT
(7.15)



35	31.2	29	52271-3019	30
34	30.2	28	-2919	29
33	29.2	27	-2819	28
32	28.2	26	-2719	27
31	27.2	25	-2619	26
30	26.2	24	-2519	25
29	25.2	23	-2419	24
28	24.2	22	-2319	23
27	23.2	21	-2219	22
26	22.2	20	-2119	21
25	21.2	19	-2019	20
24	20.2	18	-1919	19
23	19.2	17	-1819	18
22	18.2	16	-1719	17
21	17.2	15	-1619	16
20	16.2	14	-1519	15
19	15.2	13	-1419	14
18	14.2	12	-1319	13
17	13.2	11	-1219	12
16	12.2	10	-1119	11
15	11.2	9	-1019	10
14	10.2	8	-0919	9
13	9.2	7	-0819	8
12	8.2	6	-0719	7
11	7.2	5	-0619	6
10	6.2	4	-0519	5
9	5.2	3	52271-0419	4
52271-**-19	C	B	A	52271-0419
MODEL NO.				MATERIAL NO.
				極数 CKT.

52271-**-19	C	B	A	52271-0419	極数 CKT.
MODEL NO.				MATERIAL NO.	
材料 MATERIAL	注記参照 SEE NOTES	MOLEX-JAPAN CO.,LTD. 日本モレックス株式会社			
仕上げ FINISH	注記参照 SEE NOTES	REVISE ONLY ON CAD SYSTEM			
適用電線範囲 WIRE RANGE	—	TITLE 名称 1.0 FPC CONN. Z.I.F. SMT (BOTTOM CONTACT)			
被覆外径 INS. RANGE	—	-LEAD FREE-			
DRAWN BY 04/03/12 H.KAWABATA	CHK'D BY 04/03/12 K.TOJO	DWG. NO. (SHEET 1 OF 2) REV			
APP'D BY 04/03/12 M.SASAO	尺度 SCALE	SD-52271-036 B			

角度 ANGLE	±3°				
30 以上 OVER	±0.3	B	変更 REVISED	(J2004-3551)	H.K. K.S. 04/04/02
10 以上 30 未満 OVER UNDER	±0.25	A	変更 REVISED	(J2004-3371)	H.K. K.S. 04/03/29
10 未満 UNDER	±0.2	0	新規作成 RELEASED	(J2004-3059)	H.K. K.S. 04/03/12
一般公差 GENERAL TOLERANCES		記号 LTR	変更内容 REVISION RECORD	DR. CHK.	日付 DATE

E

D

1:MM DIMENSIONS IN METRIC DO NOT SCALE DRAWING

A

8

7

6

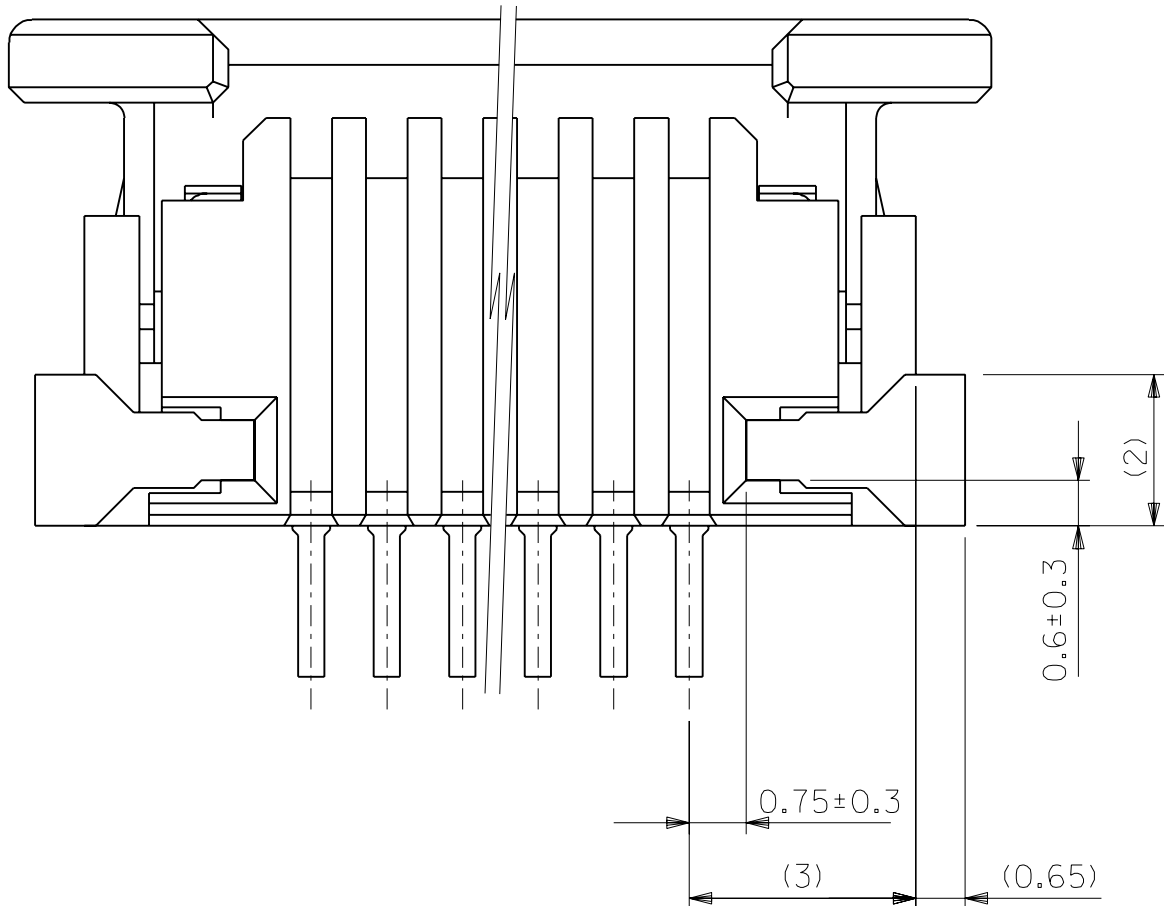
5

4

3

2

1



注記 NOTES

- ① 接点部までの嵌合長さ。
LENGTH TO CONTACT POINT.
2. 使用材料 MATERIAL
ハウジング : 46ナイロン, UL94V-0
HOUSING : 46NYLON, UL94V-0
アクチュエータ : PPS, UL94V-0
ACTUATOR : PPS, UL94V-0
ターミナル : リン青銅 (t=0.25)
TERMINAL : PHOS-BRO.(t=0.25)
メッキ : 錫ビスマスメッキ 1.0マイクロメートル以上
PLATING : TIN-BISMUTH 1.0 MICROMETER MINIMUM
: ニッケル下地 1.0マイクロメートル以上
PLATING : NICKEL(UNDER PLATING)1.0 MICROMETER MINIMUM
金具 : 銅合金 (t=0.25)
FITTING NAIL : COPPER ALLOY (t=0.25)
メッキ : 錫メッキ 1.0マイクロメートル以上
PLATING : TIN 1.0 MICROMETER MINIMUM
: ニッケル下地 1.0マイクロメートル以上
PLATING : NICKEL(UNDER PLATING) 1.0 MICROMETER MINIMUM
- ③ パターンはくり止め用金具
FITTING NAIL FOR PREVENTION OF PEELING OF P.C.B.PATTERN.
4. 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。
WHEN CONNECTOR IS SHIPED, ACTUATOR SHOULD BE LOCKED.
- ⑤ FPC挿入深さ。
INSERTION DEPTH OF FPC
- ⑥ パターン書き込み禁止エリア。
NO FOOT PRINT AREA.
7. 本製品は52271-**-17の鉛フリー品である。
THIS PRODUCT IS LEAD FREE OF 52271-**-17.

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 :THERMOSETTING BONDING AGENT

				MODEL NO.		52271-**-19	
				材料 MATERIAL	注記参照 SEE NOTES	molex MOLEX-JAPAN CO.,LTD. 日本モレックス株式会社	
				仕上げ FINISH	注記参照 SEE NOTES	REVISE ONLY ON CAD SYSTEM	
				適用電線範囲 WIRE RANGE	—//—	TITLE 名称 1.0 FPC CONN. Z.I.F. SMT (BOTTON CONTACT) -LEAD FREE-	
				被覆外径 INS. RANGE	—//—	DWG. NO. (SHEET 2 OF 2) REV SD-52271-036 B	
				DRAWN BY '04/03/12 H.KAWABATA	CHK'D BY '04/03/12 K.TOJO		
				APP'D BY '04/03/12 M.SASAO	尺度 SCALE —//—		
角度 ANGLE	±3°			記号 LTR	変更内容 REVISION RECORD	DR. CHK.	日付 DATE
30 以上 OVER	±0.3	B	変更 REVISED (J2004-355)	H.K.	K.T.	04/04/02	
10 以上 30 未満 OVER 30 UNDER	±0.25	A	変更 REVISED (J2004-337)	H.K.	K.T.	04/03/25	
10 未満 UNDER	±0.2	O	新規作成 RELEASED (J2004-3059)	H.K.	K.T.	04/03/12	
一般公差 GENERAL TOLERANCES							

8

7

6

5

4

3

2

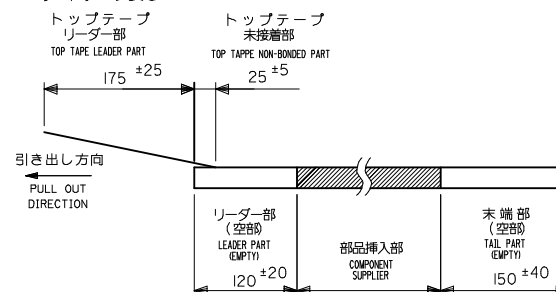
1

NOTES

1. 製品番号 52271-**-19 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 図面 SD-52271-036 を参照下さい。
 IN THE PACKAGE, ACTUATOR OF PART NO. 52271-**-19 SHOULD BE LOCKED
 RE DETAILED DIMENSIONS, SEE SD-52271-036.

2. 梱包数量: 1000個/リール
 NUMBER OF CONNECTORS: 1000 PCS/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: 0.1~1.3N {10~130gf} (剥離方向は下図参照)
 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: 0.1~1.3N {10~130gf}
 (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 (MATERIAL)

キャリアテープ (CARRIER TAPE): ポリプロピレン (POLYPROPYLENE)

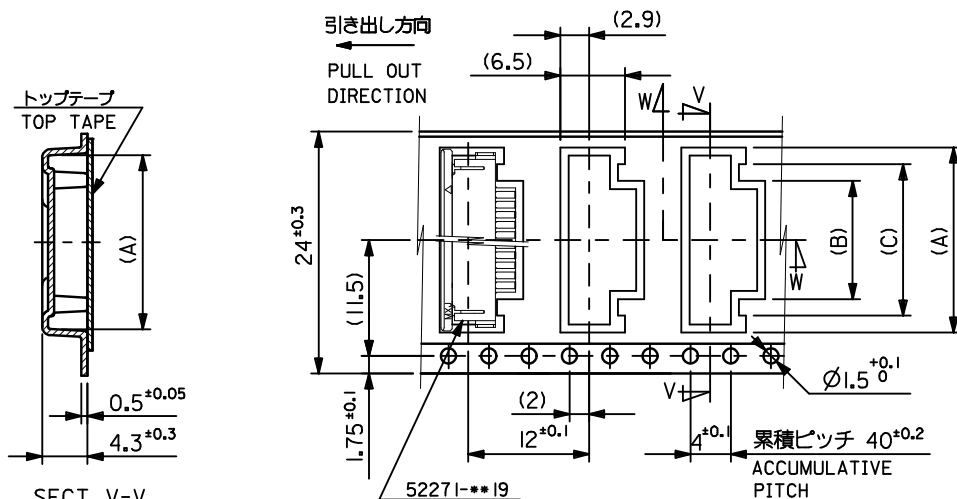
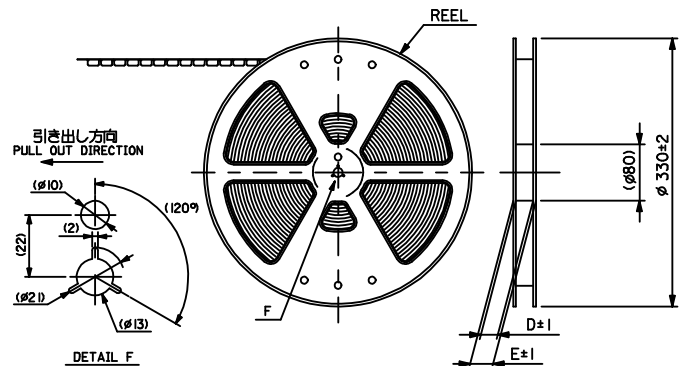
トップテープ (TOP TAPE): PET, PE, PEF

リール (REEL): ポリスチレン (PS) <リサイクル材を含む>

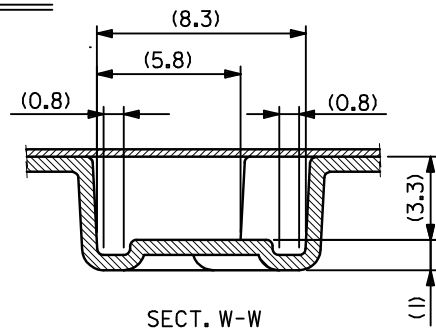
POLYSTYRENE (PS) <RECYCLE MATERIAL CONTAINED>

6. 本製品は52271-**-90の鉛フリー品である。
 THIS PRODUCT IS LEAD FREE OF 52271-**-90.

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.



SECT. V-V



SECT. W-W

52271-**-19	24	29.4	25.4	15	11.4	18.3	52271-1179	11
MODEL NO.	CARRIER TAPE WIDTH	E	D	14	10.4	17.3	-1079	10
				13	9.4	16.3	-0979	9
				12	8.4	15.3	-0879	8
				11	7.4	14.3	-0779	7
				10	6.4	13.3	-0679	6
				9	5.4	12.3	-0579	5
				8	4.4	11.3	52271-0479	4

REVISED		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
EC NO. J2009-2061		10 UNDER		MM ONLY		---		METRIC		◎ □	
DRWN:TKN		10 OVER 30 UNDER		DRAWN BY		DATE		TITLE		EMBOSSED TAPE PACKAGE	
CHKD:HATSUMOTO		30 OVER		H.KAWABATA		2004/03/12		FOR 52271-**-19		-LEAD FREE-	
APPR:NUKITA		ANGULAR		CHECKED BY		DATE		K.TOJO		2004/03/12	
REV		DRAFT WHERE APPLICABLE		APPROVED BY		DATE		M.SASAO		2004/03/12	
A		MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		SEE TABLE		MOLEX INCORPORATED		SD-52271-037	
				SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		DOCUMENT NO.		SHEET NO.	
				A3						1 OF 3	

F

E

D

C

B

A

F

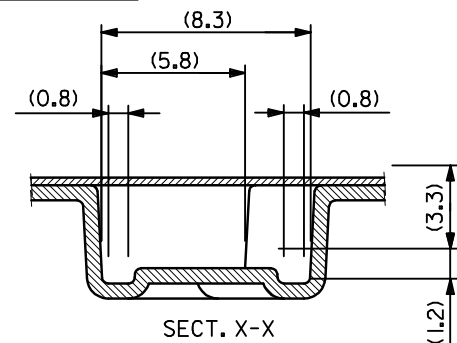
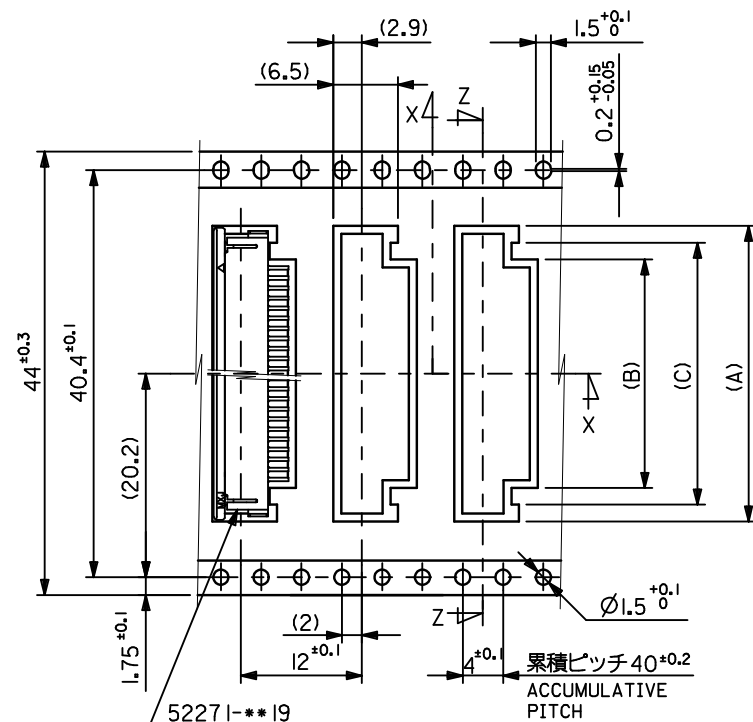
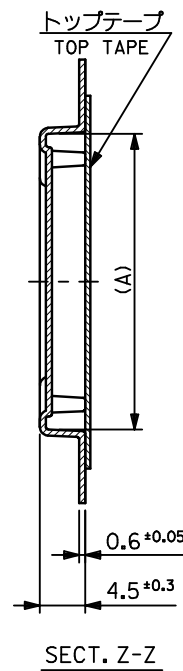
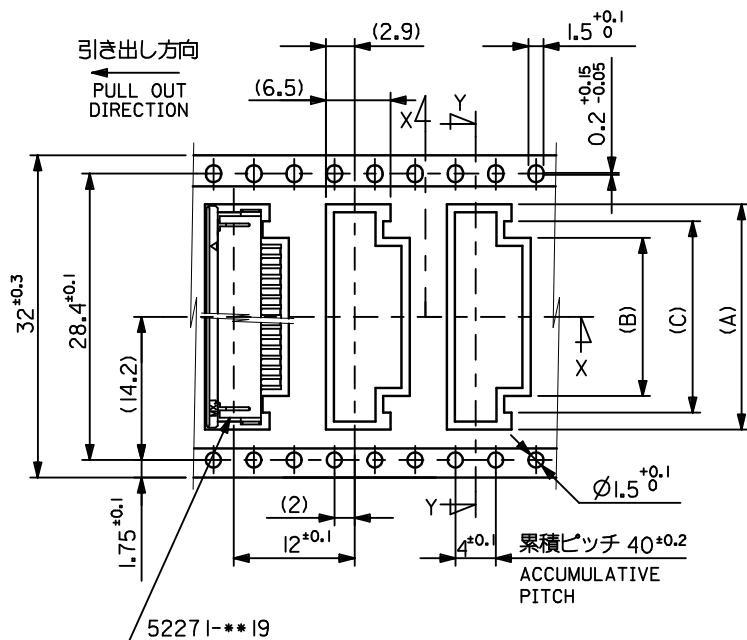
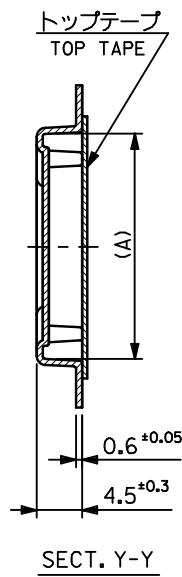
E

D

C

B

A



44	49.4	45.4	31	27.4	34.35	52271-2779	27
			30	26.4	33.35	-2679	26
			29	25.4	32.35	-2579	25
			28	24.4	31.35	-2479	24
			27	23.4	30.35	-2379	23
			26	22.4	29.35	-2279	22
			25	21.4	28.35	-2179	21
			24	20.4	27.35	-2079	20
			23	19.4	26.35	-1979	19
			22	18.4	25.35	-1879	18
			21	17.4	24.35	-1779	17
			20	16.4	23.35	-1679	16
			19	15.4	22.35	-1579	15
			18	14.4	21.35	-1479	14

32	37.4	33.4	17	13.4	20.35	-1379	13
			16	12.4	19.35	52271-1279	12
			(C)	(B)	(A)	MATERIAL NO.	
			E	D		電 装 部	

キャリアテープ幅
CARRIER TAPE WIDTH
tb_frame_A3_J_ME_S
Rev. E 2006/04/15

REVISED
EC NO: J2009-2061
2009/05/20
DRWN:TKON
CHKD:MATSUMOTO
2009/05/21
APPR:NUKITA
2009/05/21
A

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

DRAWN BY H. KAWABATA	DATE 2004/03/12
CHECKED BY K. TOJO	DATE 2004/03/12
APPROVED BY M. SASAO	DATE 2004/03/12

MATERIAL NO.
SEE TABLE

SIZE
A3

SCALE

DESIGN UNITS
METRIC

THIRD ANGLE
PROJECTION

TITLE
EMBOSSED TAPE PACKAGE
FOR 52271-**-19
-LEAD FREE-

MOLEX INCORPORATED

DOCUMENT NO.
SD-52271-037

SHEET NO.
2 OF 3

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

F

E

D

C

B

A

F

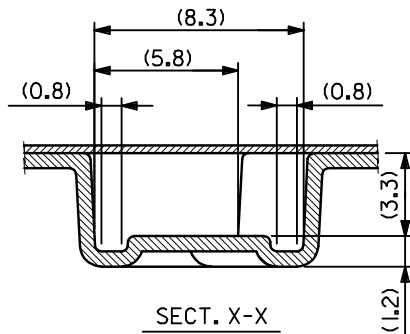
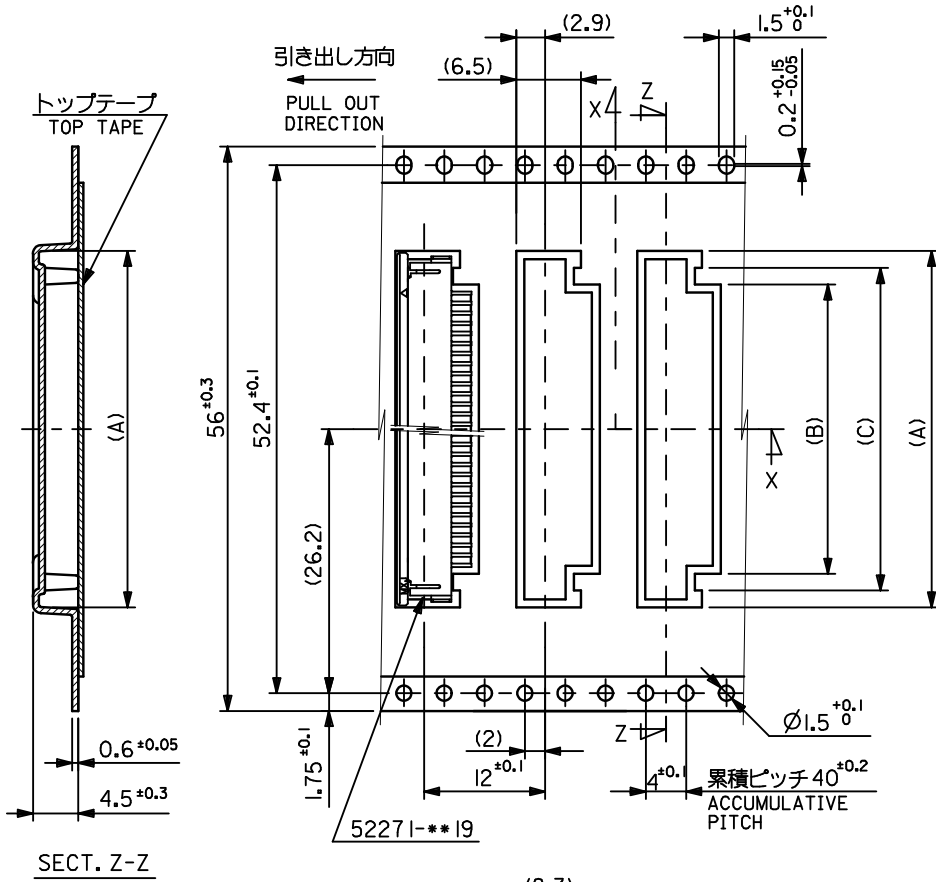
E

D

C

B

A



56	61.4	57.4	34	30.4	37.35	5227I-3079	30
			33	29.4	36.35	5227I-2979	29
			32	28.4	35.35	5227I-2879	28
キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(C)	(B)	(A)	MATERIAL NO.	標 数 CKT.

tb_frame_A3_J_ME_S
Rev. E 2006/04/15

9

8

7

6

5

4

3

2

EN-02JA(021)

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

DESCRIPTION
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

DRAWN BY	DATE
H.KAWABATA	2004/03/12
CHECKED BY	DATE
K.TOJO	2004/03/12
APPROVED BY	DATE
M.SASAO	2004/03/12

MATERIAL NO.

SEE TABLE

SIZE
A3

SCALE

DESIGN UNITS
METRIC

THIRD ANGLE
PROJECTION

EMBOSSSED TAPE PAKEGE
FOR 5227I-***19
-LEAD FREE-

MOLEX INCORPORATED

DOCUMENT NO.

SD-5227I-037

SHEET NO.

3 OF 3

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

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9