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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

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

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](#)

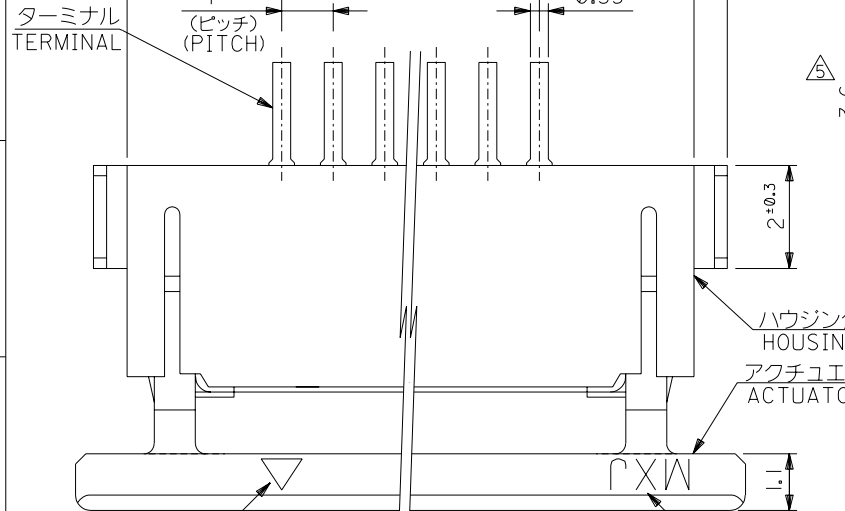
Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series
[52271Series](#)

This document was generated on 06/04/2010

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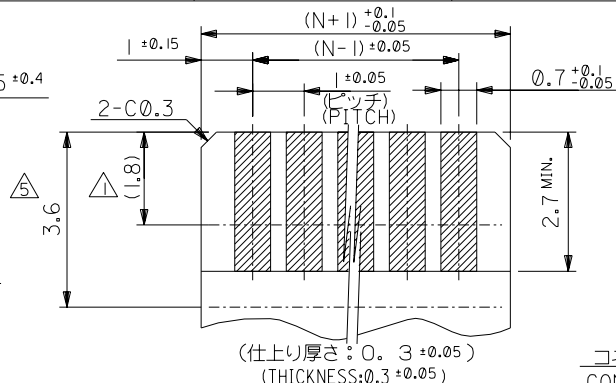
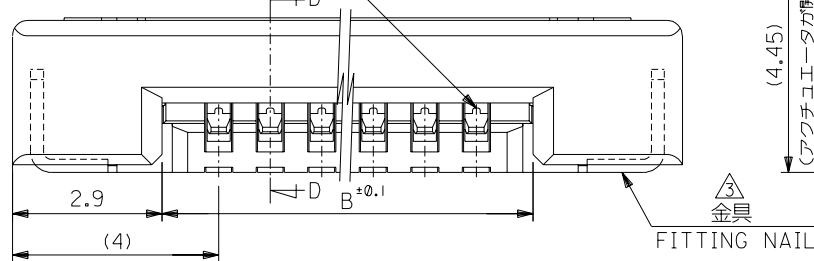
ターミナル
TERMINAL



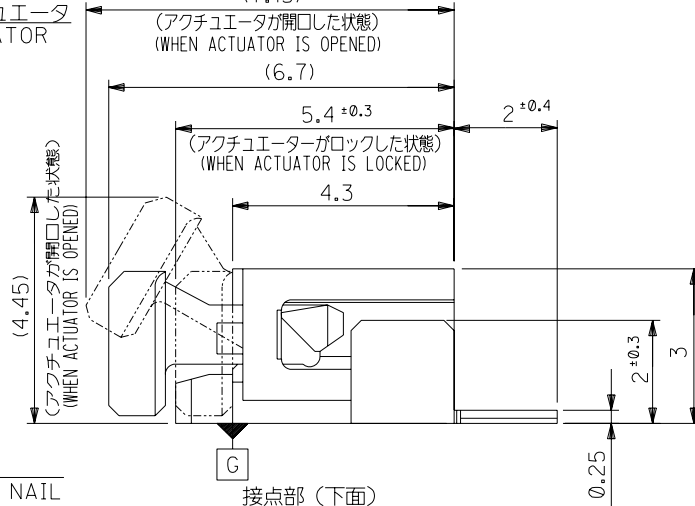
回路番号1用マーク
CKT. NO.1 MARK

トレードマーク
TRADE MARK
接点部 (下面)

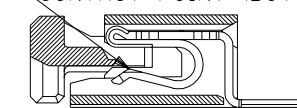
CONTACT POINT (BOTTOM SIDE)



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

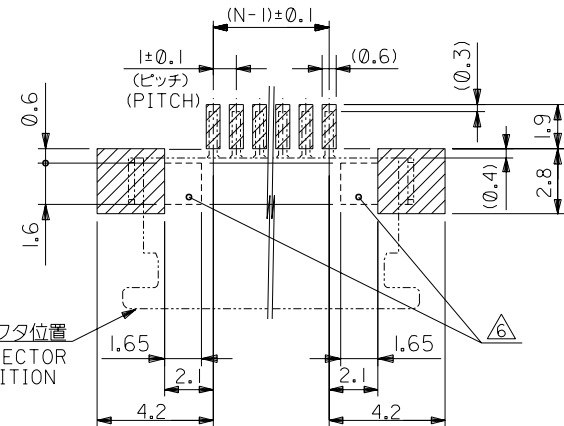


接点部 (下面)
CONTACT POINT (BOTTOM SIDE)



SECT. D-D

コネクタ位置
CONNECTOR
POSITION



パターン推奨寸法 (参考)
RECOMMENDED PATTERN DIM. (REF.)

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	極数	CKT.
MODEL NO.				MATERIAL NO.		

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 (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)	
DR. 04/03/12 M.SASAO				尺度 SCALE		SD-52271-036	
角度 ANGLE ±3°				—		REV B	
30°以上 OVER				B 変更 REVISED (02004-3551)			
10°以上 30°未満 OVER UNDER				A 変更 REVISED (02004-3371)			
10°未満 UNDER				0 新規作成 RELEASED (02004-3059)			
一般公差 GENERAL TOLERANCES				記号 LTR			
				変更内容 REVISION RECORD			
				DR. 日付 CHK. DATE			

DWG. NO. SD-52271-036

E

D

±MM DIMENSIONS IN METRIC DO NOT SCALE DRAWING

A

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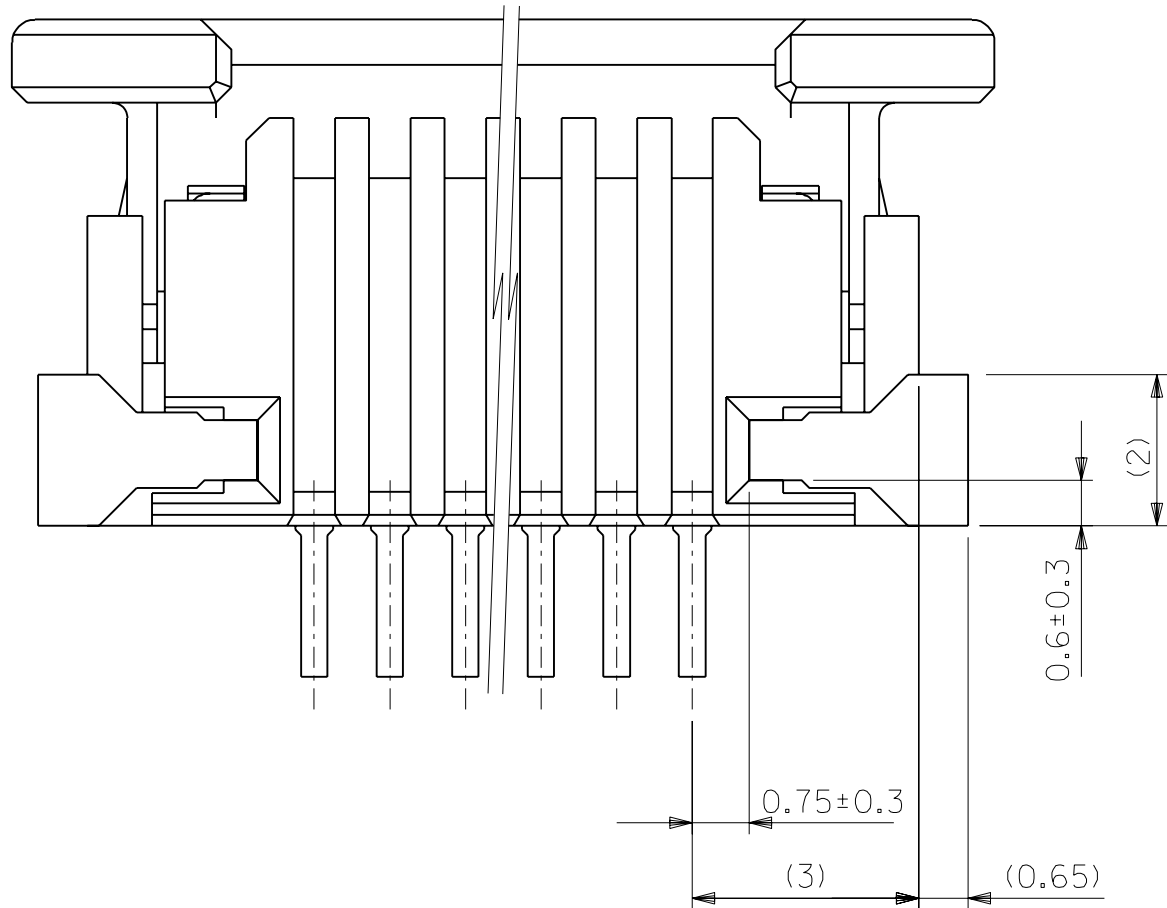
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注記 NOTES

- 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		MOLEX-JAPAN CO.,LTD. 日本モレックス株式会社	
				仕上げ FINISH		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°	
				30 以上 OVER		±0.3	
				10 以上 30 未満 OVER UNDER		±0.25	
				10 未満 UNDER		±0.2	
				一般公差 GENERAL TOLERANCES		記号 LTR	
				変更 REVISION		変更内容 REVISION RECORD	
				DR. CHK.		日付 DATE	

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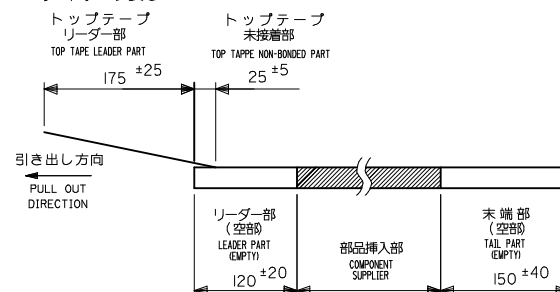
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NOTES

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。
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>

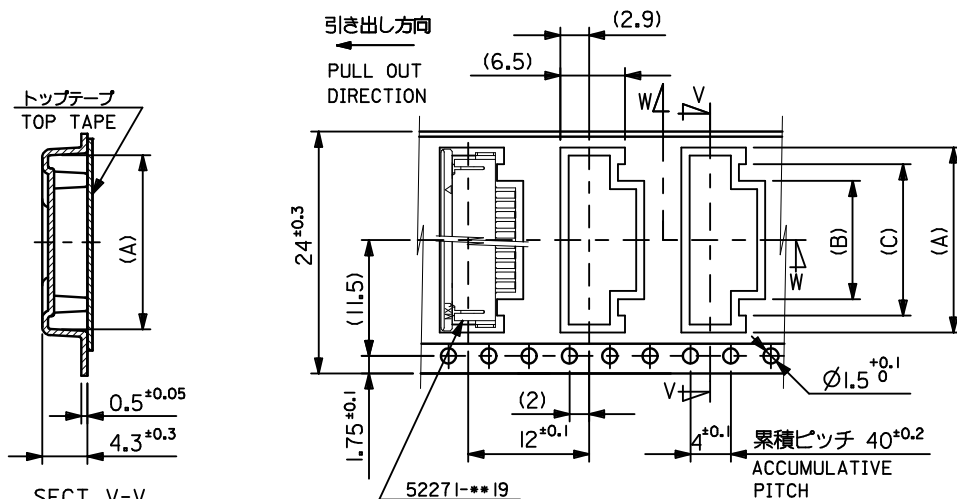
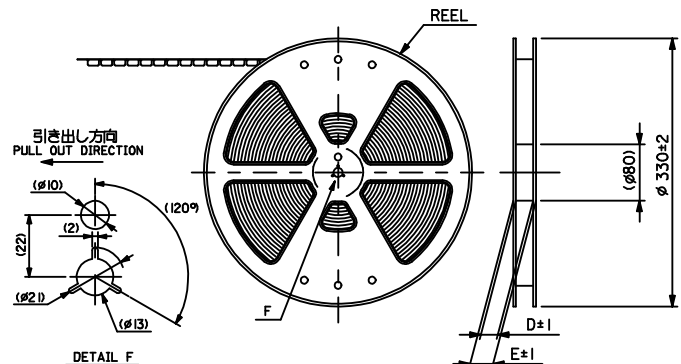
POLYSTYRENE (PS) <RECYCLE MATERIAL CONTAINED>

6. 本製品は52271-**-90の鉛フリー品である。

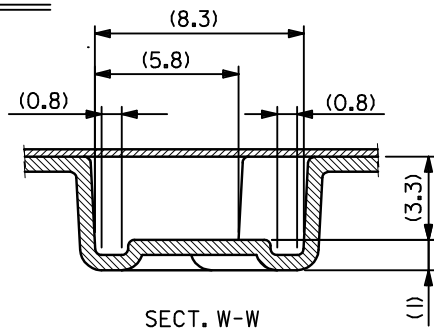
THIS PRODUCT IS LEAD FREE OF 52271-**-90.

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

REVISIONS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
REV	DESCRIPTION	10 UNDER	±0.2	MM ONLY	DATE	---	---	METRIC	---	---	---
1	EC NO: J2009-2061	10 OVER 30 UNDER	±0.25	DRAWN BY	DATE	EMBOSSED TAPE PACKAGE FOR 52271-**-19 -LEAD FREE- MOLEX INCORPORATED					
2	DRWN:TKN	30 OVER	±0.3	CHECKED BY	DATE						
3	CHKD:HMATSUMOTO	ANGULAR	±3°	APPROVED BY	DATE						
4	APPR:NUKITA	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.							
REVISED		SEE TABLE		SIZE A3		DOCUMENT NO.		SD-52271-037		SHEET NO. 1 OF 3	

F

E

D

C

B

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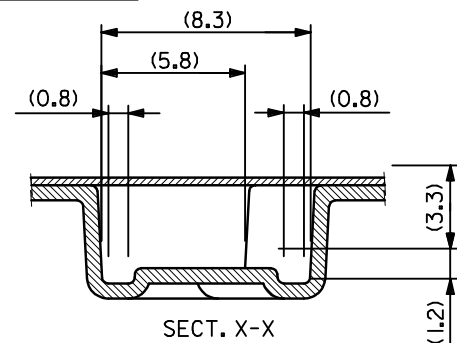
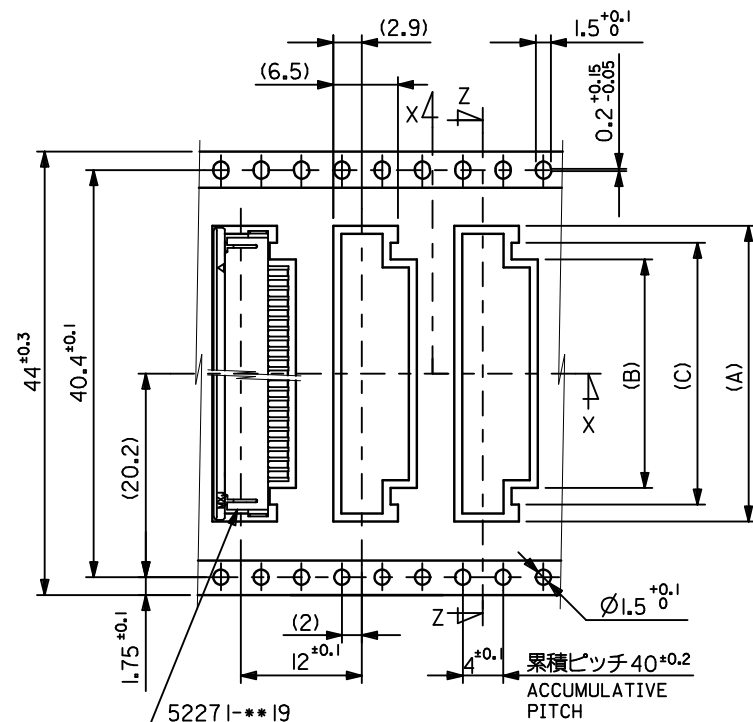
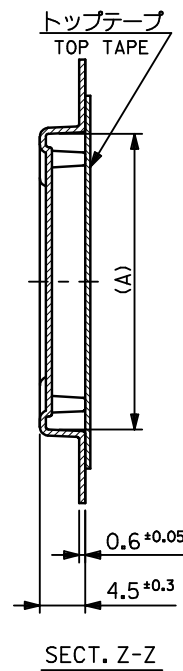
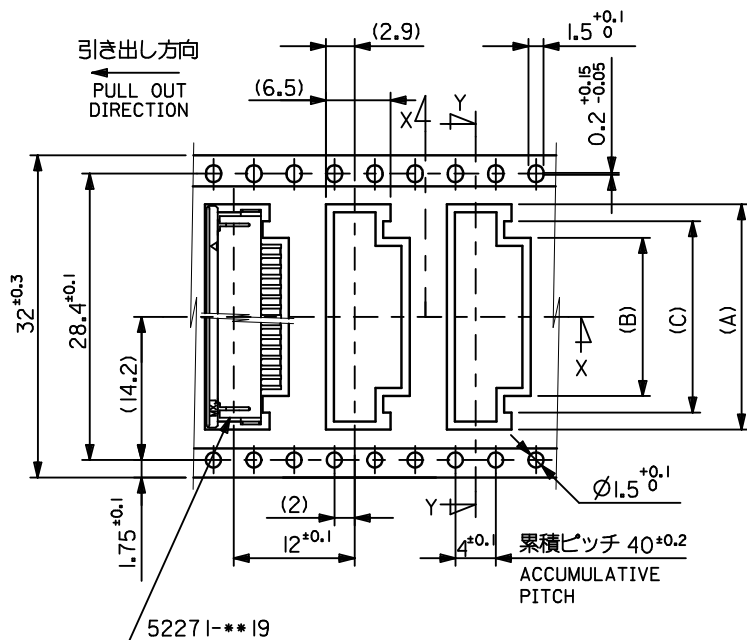
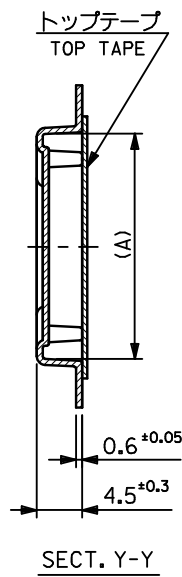
E

D

C

B

A



44	49.4	45.4	31	27.4	34.35	5227I-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	5227I-1279	12
			(C)	(B)	(A)	MATERIAL NO.	

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

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EN-02JA(021)

REVISED
EC NO: J2009-2061
2009/05/20
DRWN:TKN
CHKD:MATSUMOTO
2009/05/21
APPR:NUKITA
2009/05/21
REV
DESCRIPTION
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	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

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

SCALE

DESIGN UNITS
METRIC

THIRD ANGLE
PROJECTION

EMBOSSED TAPE PACKAGE
FOR 5227I-**-19
-LEAD FREE-



MOLEX INCORPORATED

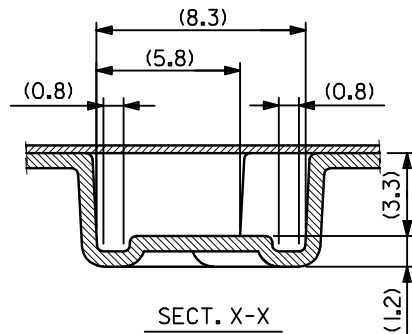
DOCUMENT NO.

SD-52271-037

SHEET NO.

2 OF 3

5227I-**-79
MODEL NO.



SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
TITLE EMBOSSED TAPE PAKEGE FOR 52271-**19 -LEAD FREE-		
 MOLEX INCORPORATED		
DOCUMENT NO. SD-52271-037	SHEET NO. 3 OF 3	
AINS INFORMATION THAT IS PROPRIETARY TO MOLEX SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		