molex
one company > a world of innovation

This document was generated on 06/04/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0522711179
Status: Active
Overview:
Description: 1.00mm (.039") Pitch FFC/FPC Connector, Right Angle, SMT, ZIF, Bottom Contact Style, 11 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)	11
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?

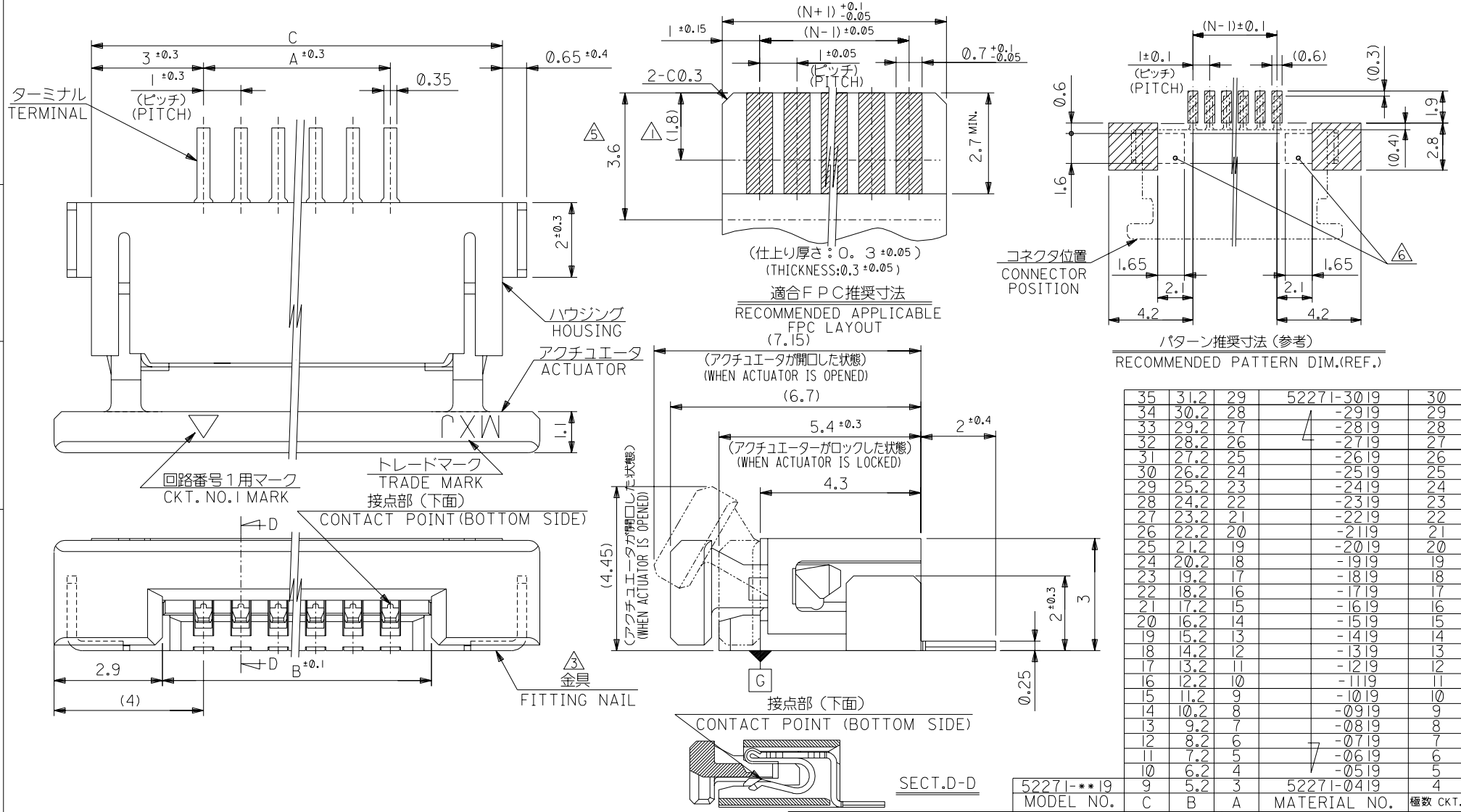
Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, click here

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

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



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
52271-**19	9	5.2	3	52271-0419	4
MODEL NO.	C	B	A	MATERIAL NO.	極数 CKT.

角度 ANGLE	±3°
30以上 OVER	±0.3
10以上 OVER 30未満 UNDER	±0.25
10未満 UNDER	±0.2
一般公差 GENERAL TOLERANCES	

記号 LTR	変更内容 REVISION RECORD	DR. CHK.	日付 DATE
B	変更 REVISED (J2004-3551)	H.K K.T	04/04/02
A	変更 REVISED (J2004-3371)	H.K K.T	04/03/25
Ø	新規作成 RELEASED (J2004-3059)	H.K K.T	04/03/12

材料 MATERIAL	注記参照 SEE NOTES
仕上げ FINISH	注記参照 SEE NOTES
適用電線範囲 WIRE RANGE	
被覆外径 INS. RANGE	
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

MOLEX-JAPAN CO.,LTD. 日本モレックス株式会社

REVISE ONLY ON CAD SYSTEM

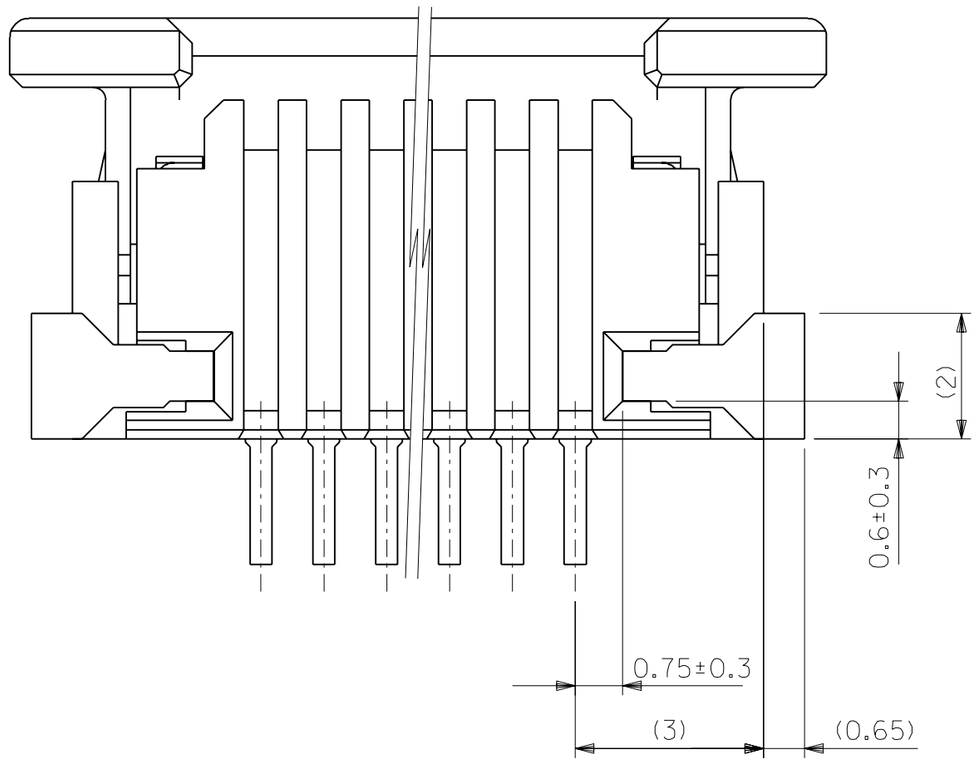
TITLE 名称
1.0 FPC CONN. Z.I.F. SMT (BOTTON CONTACT)
-LEAD FREE-

DWG. NO. SD-52271-036 (SHEET 1 OF 2) REV B

:MM DIMENSIONS IN METRIC DO NOT SCALE DRAWING

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX(JAPAN) AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION
本図面は日本モレックス（株）の所有する情報を含むもので当社の許可なく複製を禁止する。

DWG. NO. SD-52271-036



下面図

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

角度 ANGLE	±3°					
30 以上 OVER	±0.3	B	変更 REVISED	(J2004-3551)	H.K / K.T	04/04/02
10 以上 30 未満 OVER UNDER	±0.25	A	変更 REVISED	(J2004-3371)	H.K / K.T	04/03/25
10 未満 UNDER	±0.2	0	新規作成 RELEASED	(J2004-3059)	H.K / K.T	04/03/12
一般公差 GENERAL TOLERANCES		記号 LTR	変更内容 REVISION RECORD		DR. / CHK.	日付 DATE

MODEL NO.	52271-**19
材料 MATERIAL	注記参照 SEE NOTES
仕上げ FINISH	注記参照 SEE NOTES
適用電線範囲 WIRE RANGE	
被覆外径 INS. RANGE	
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

MOLEX-JAPAN CO.,LTD.
日本モレックス株式会社

REVISE ONLY ON CAD SYSTEM

TITLE 名称
1.0 FPC CONN. Z.I.F. SMT
(BOTTON CONTACT)
-LEAD FREE-

DWG. NO. SD-52271-036 (SHEET 2 OF 2) REV B

:MM DIMENSIONS IN METRIC DO NOT SCALE DRAWING

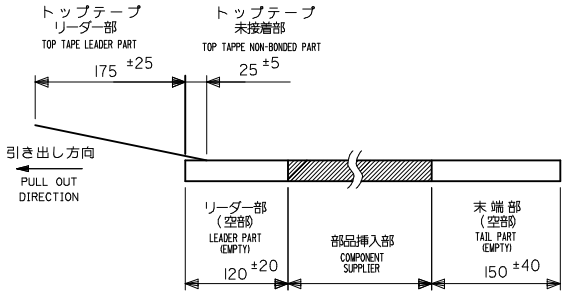
SD-52271-036.S02

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX(JAPAN) AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION
本図面は日本モレックス（株）の所有する情報を含むもので 当社の許可なく複製を禁止する。

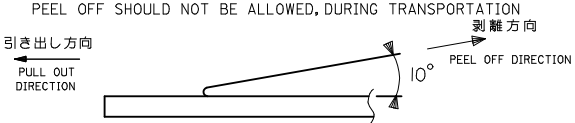
EN-0IC(032)MXJ-32

NOTES

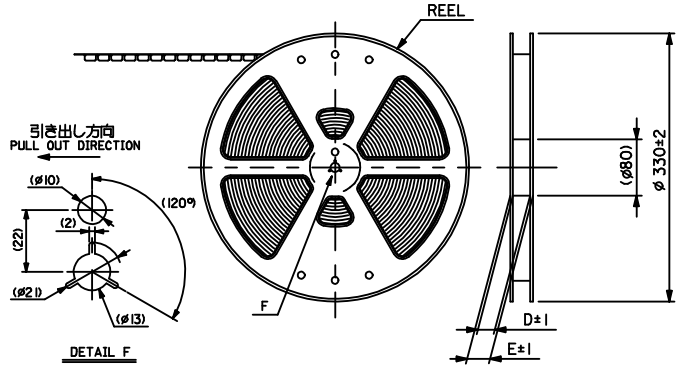
1. 製品番号 52271-**19 の梱包状態はアクチュエータがロックした状態とする。
詳細寸法については 図 面 SD-52271-036 を参照下さい。
IN THE PACKAGE, AUTUATOR OF PART NO. 52271-**19 SHOULD BE LOCKED
RE DETAILED DIMENSIONS, SEE SD-52271-036.
2. 梱包数量：1000個/リール
NUMBER OF CONNECTORS : 1000 PCS/REEL
3. リードテープ長さ LEAD TAPE LENGTH

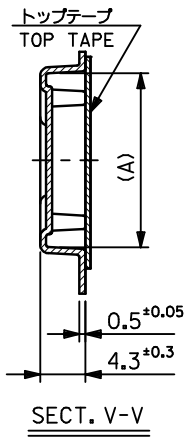


4. トップテープの剥離強度：0.1～1.3N {10～130gf} (剥離方向は下図参照)
尚、本規格値は、出荷時に適用。(但し、輸送時に剥離が発生しない事。)
PEELING OFF FORCE OF TOP TAPE : 0.1～1.3N {10～130gf}
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)
THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT
PEEL OFF SHOULD NOT BE ALLOWED, DURING TRANSPORTATION

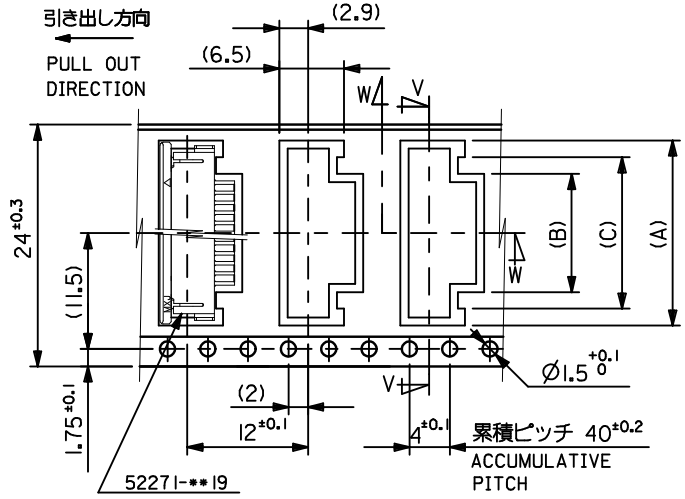


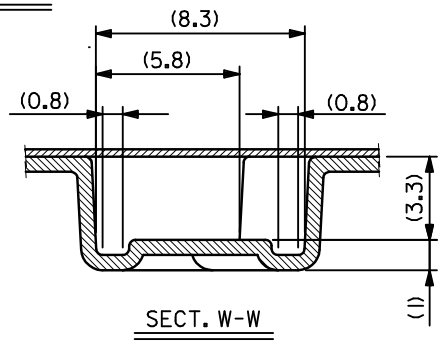
5. 材料 (MATERIAL)
キャリアテープ (CARRIER TAPE) : ポリプロピレン (POLYPROPYLENE)
トップテープ (TOPTAPE) : PET, PE, PEF
リール (REEL) : ポリスチレン (PS) <リサイクル材を含む>
POLYSTYREN (PS) <RECYCLE MATERIAL CONTAINED>
6. 本製品は52271-**90の鉛フリー品である。
THIS PRODUCT IS LEAD FREE OF 52271-**90.
7. 本製品は乾燥剤入り、ハイバリア梱包仕様である.
THIS PRODUCT IS HIGH BARRIER PACKAGE WITH DESICCANT.





SECT. V-V





SECT. W-W

MODEL NO.	キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(C)	(B)	(A)	MATERIAL NO.	極数 CKT.
52271-**79	24	29.4	25.4	15	11.4	18.3	52271-1179	11
				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
EC NO: J2009-2061 2009/05/20
DRWN: TKON 2009/05/21
CHKD: HMATSUMOTO
APPR: NUKITA
DESCRIPTION
REV A

GENERAL TOLERANCES (UNLESS SPECIFIED)

10 UNDER	±0.2
10 OVER 30 UNDER	±0.25
30 OVER	±0.3
ANGULAR	±3°

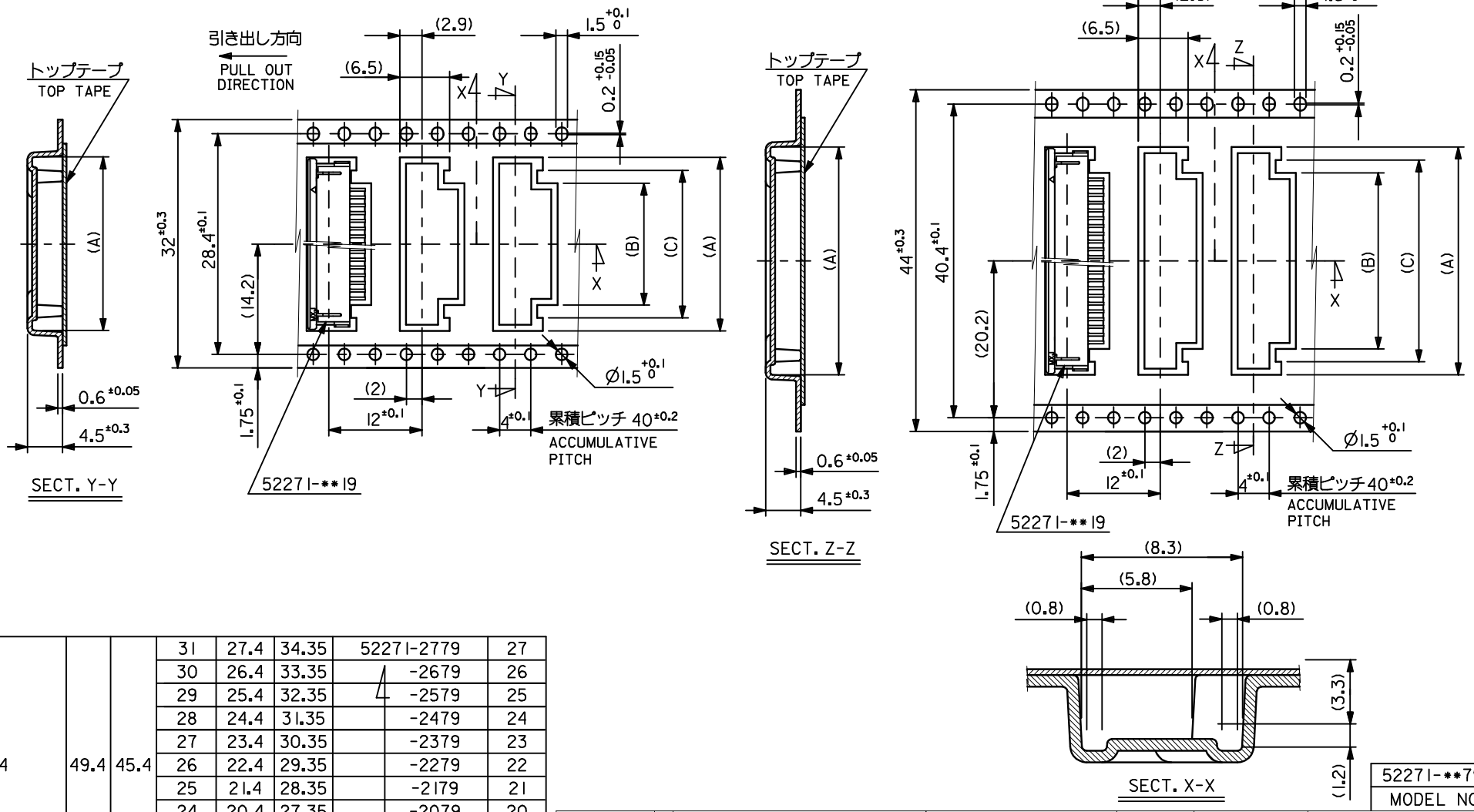
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

		DATE
DRAWN BY	H.KAWABATA	2004/03/12
CHECKED BY	K.TOJO	2004/03/12
APPROVED BY	M.SASAO	2004/03/12
MATERIAL NO.	SEE TABLE	

TITLE: EMBOSSED TAPE PACKAGE FOR 52271-**19 -LEAD FREE-
molex MOLEX INCORPORATED
DOCUMENT NO. SD-52271-037
SHEET NO. 1 OF 3
SIZE A3

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



キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(C)	(B)	(A)	MATERIAL NO.	極数 CKT.
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
32	37.4	33.4	20	16.4	23.35	-1679	16
			19	15.4	22.35	-1579	15
			18	14.4	21.35	-1479	14
			17	13.4	20.35	-1379	13
			16	12.4	19.35	52271-1279	12

REVISED
EC NO: J2009-2061 2009/05/20
DRWN:TKON 2009/05/21
CH'KD:HMATSUMOTO 2009/05/21
APPR:NUKITA
DESCRIPTION
REV A

GENERAL TOLERANCES (UNLESS SPECIFIED)

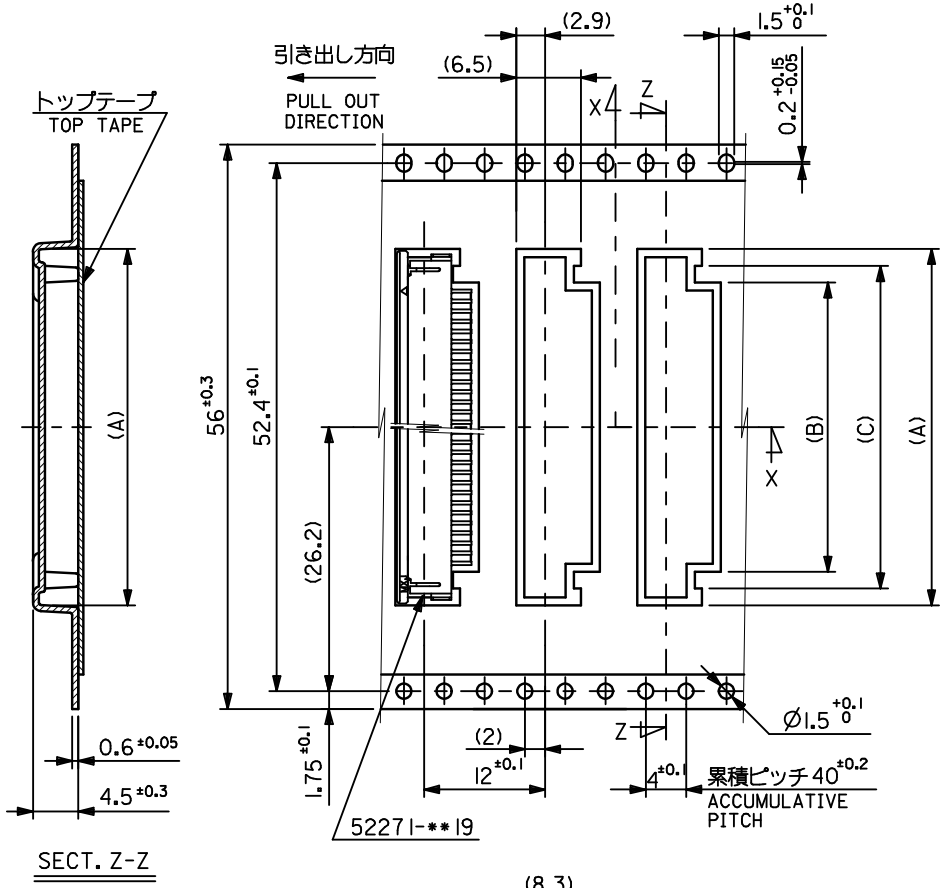
10 UNDER	±0.2
10 OVER 30 UNDER	±0.25
30 OVER	±0.3
ANGULAR	±3°

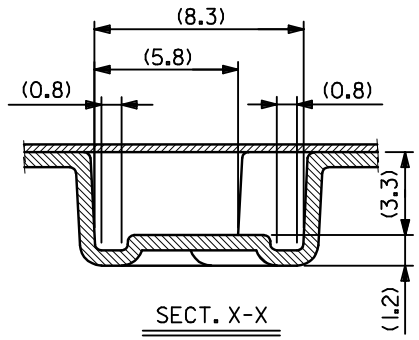
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	MM ONLY
SCALE	---
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
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
TITLE	EMBOSSED TAPE PACKAGE FOR 52271-**19 -LEAD FREE-
	MOLEX INCORPORATED
DOCUMENT NO.	SD-52271-037
SHEET NO.	2 OF 3
SIZE	A3

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

52271-**79
MODEL NO.





56	61.4	57.4	34	30.4	37.35	52271-3079	30
			33	29.4	36.35	52271-2979	29
			32	28.4	35.35	52271-2879	28
キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(C)	(B)	(A)	MATERIAL NO.	極数 CKT.

REVISED
EC NO: J2009-2061 2009/05/20
DRWN:TKON 2009/05/21
CH'KD:HMATSUMOTO 2009/05/21
APPR:NUKITA
DESCRIPTION
REV
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
SCALE	---
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
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

MODEL NO. 52271-**79

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

MOLEX INCORPORATED

DOCUMENT NO. SD-52271-037

SHEET NO. 3 OF 3

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