

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0522713079](#)
Status: **Active**
Overview:
Description: 1.00mm (.039") Pitch FFC/FPC Connector, Right Angle, SMT, ZIF, Bottom Contact Style, 30 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) 30
 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-52271-068, 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

<p>EU RoHS ELV and RoHS Compliant REACH SVHC Contains SVHC: No Halogen-Free Status Not Halogen-Free</p>	<p>China RoHS</p> 
--	--

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.

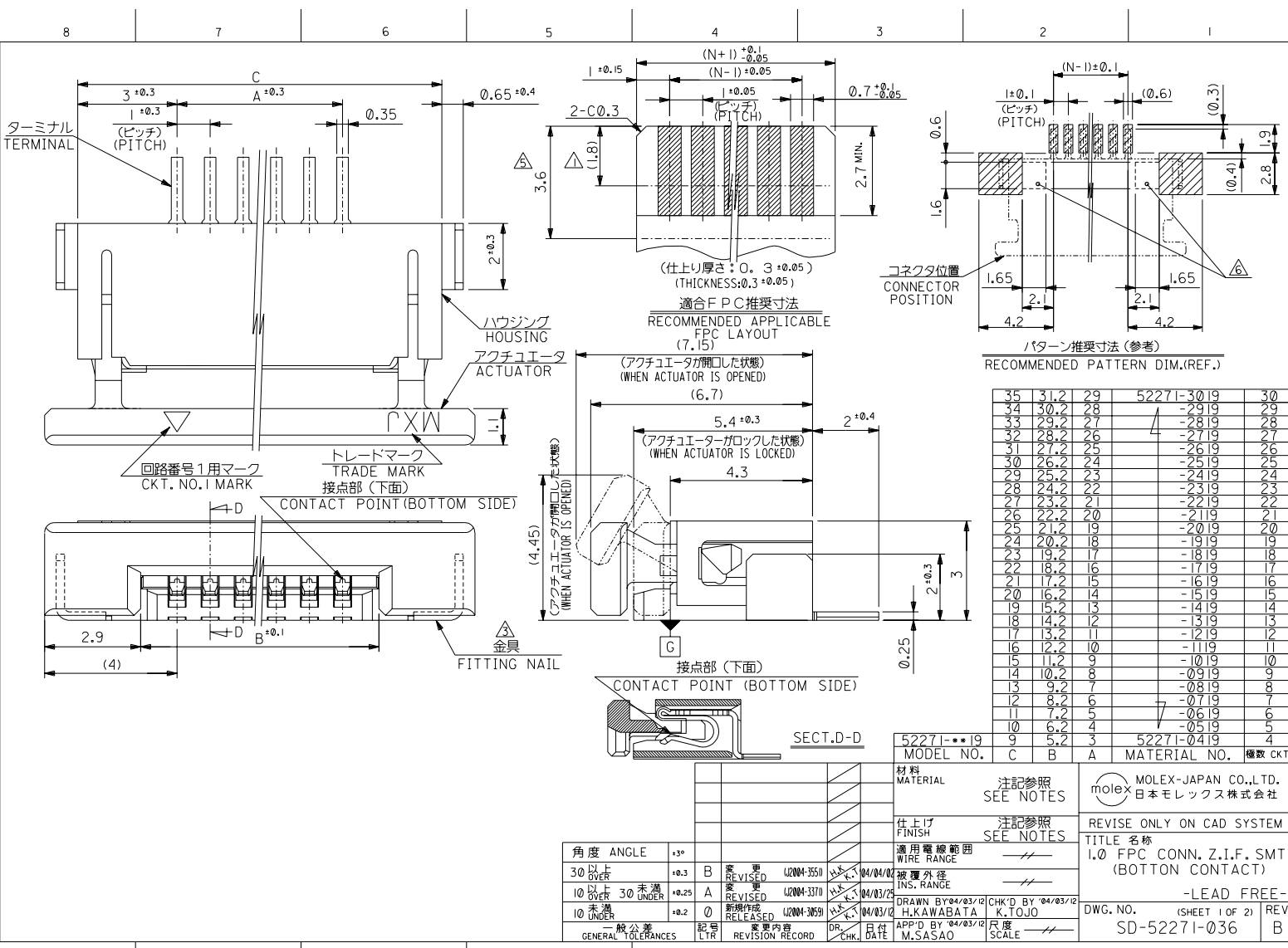
Search Parts in this Series
[52271Series](#)

This document was generated on 06/04/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

DWG. NO. SD-52271-036

MM DIMENSIONS IN METRIC DO NOT SCALE DRAWING



35	31.2	29	52271-30	19	30
34	30.2	28	-	29	29
33	29.2	27	4	28	28
32	28.2	26	-	27	27
31	27.2	25	-	26	26
30	26.2	24	-	25	25
29	25.2	23	-	24	24
28	24.2	22	-	23	23
27	23.2	21	-	22	22
26	22.2	20	-	21	21
25	21.2	19	-	20	20
24	20.2	18	-	19	19
23	19.2	17	-	18	18
22	18.2	16	-	17	17
21	17.2	15	-	16	16
20	16.2	14	-	15	15
19	15.2	13	-	14	14
18	14.2	12	-	13	13
17	13.2	11	-	12	12
16	12.2	10	-	11	11
15	11.2	9	-	10	10
14	10.2	8	-	9	9
13	9.2	7	-	8	8
12	8.2	6	7	7	7
11	7.2	5	-	6	6
10	6.2	4	-	5	5
9	5.2	3	-	4	4

角度 ANGLE	±3°
30以上 OVER	+0.3
10以上 30未満 UNDER	+0.25
10未満 UNDER	+0.2

52271-019 MODEL NO. C B A MATERIAL NO. 種数 CKT.

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 K.TOUJO
CHK'D BY 04/03/12 M.SASAO

REVISION RECORD

DR. DATE

CHK. DATE

SCALE

モレックス 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 (BOTTOM CONTACT)

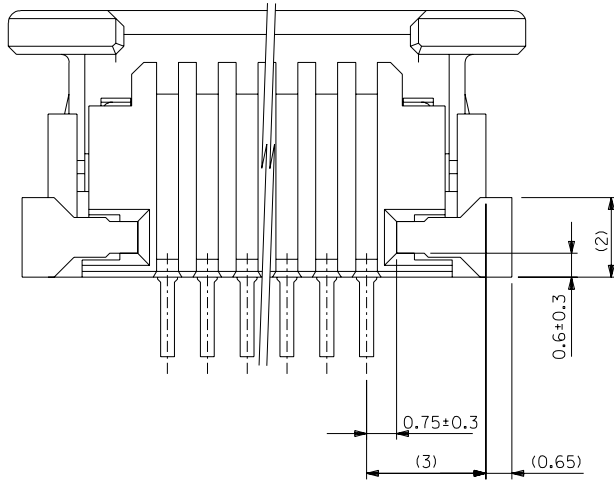
-LEAD FREE-

DWG. NO. (SHEET 1 OF 2) REV B

SD-52271-036

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-01C(032)MXJ-32

8 7 6 5 4 3 2 1



下面図

注記 NOTES

- △ 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
 - アクチュエータ : PPS, UL94V-0
 - ターミナル : リン青銅 (t=0.25)
 - メッキ : PHOS-BRO.(t=0.25)
 - メッキ : 銅-ビスムス 1.0 マイクロメートル以上
 - メッキ : ニッケル下地 1.0 マイクロメートル以上
- △ パターンはくり止め用金具
FITTING NAIL FOR PREVENTION OF PEELING OF P.C.B.PATTERN.
4. エンボステーパ梱包時は、アクチュエータがロックした状態とする。
WHEN CONNECTOR IS SHIPPED, ACTUATOR SHOULD BE LOCKED.
- △ FPC挿入深さ。
INSERTION DEPTH OF FPC
- △ 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 I.O FPC CONN. Z.I.F. SMT (BOTTOM CONTACT) -LEAD FREE-	
		被覆外径 INS. RANGE		---		DWG. NO. (SHEET 2 OF 2) REV SD-52271-036 B	
角度 ANGLE	+3°						
30以上 OVER	+0.3	B	変更 REVISD	02004-3550	04/03/12		
10以上 未満 OVER 30 UNDER	+0.25	A	変更 REVISD	02004-3370	04/03/12		
10未満 UNDER	+0.2	O	新規作成 RELEASED	02004-3059	04/03/12		
一般公差 GENERAL TOLERANCES		記号 ITR	変更内容 REVISION RECORD	DR. CHK. DATE	APP'D BY M.SASAO	尺度 SCALE	

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-01C1032)MXJ-32

8

7

6

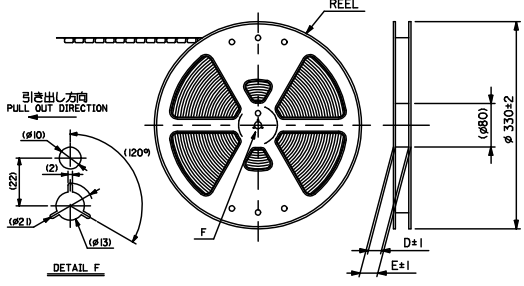
5

4

3

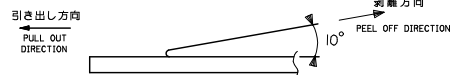
2

1

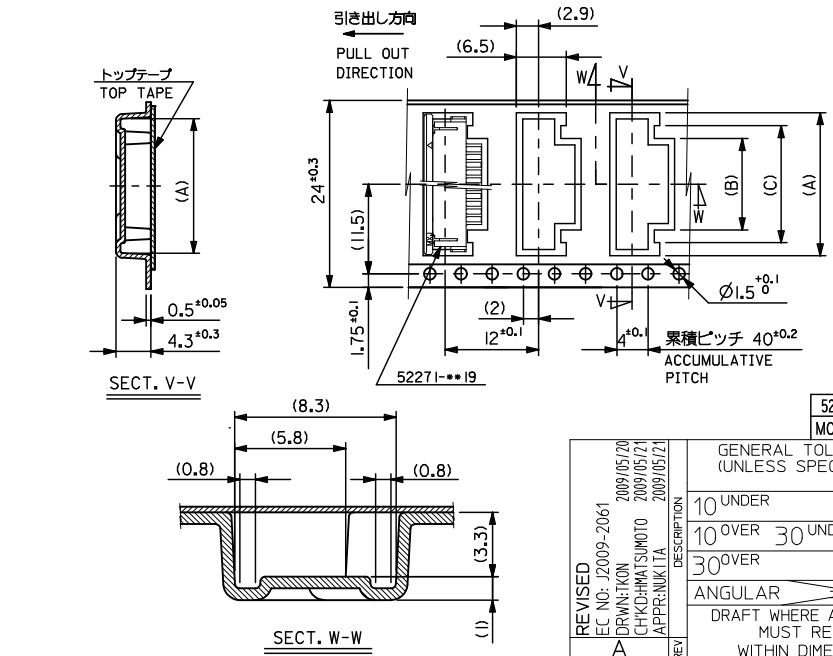


NOTES

- 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.
- 梱包数量：1000個/リール
NUMBER OF CONNECTORS：1000 PCS/REEL
- リードテープ長さ LEAD TAPE LENGTH
トップテープ リーダー部 TOP TAPE LEADER PART 175 ±25
トップテープ 未接着部 TOP TAPE NON-BONDED PART 25 ±5
- トップテープの剥離強度：0.1～1.3N (10～130gf) (剥離方向は図参照) 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)



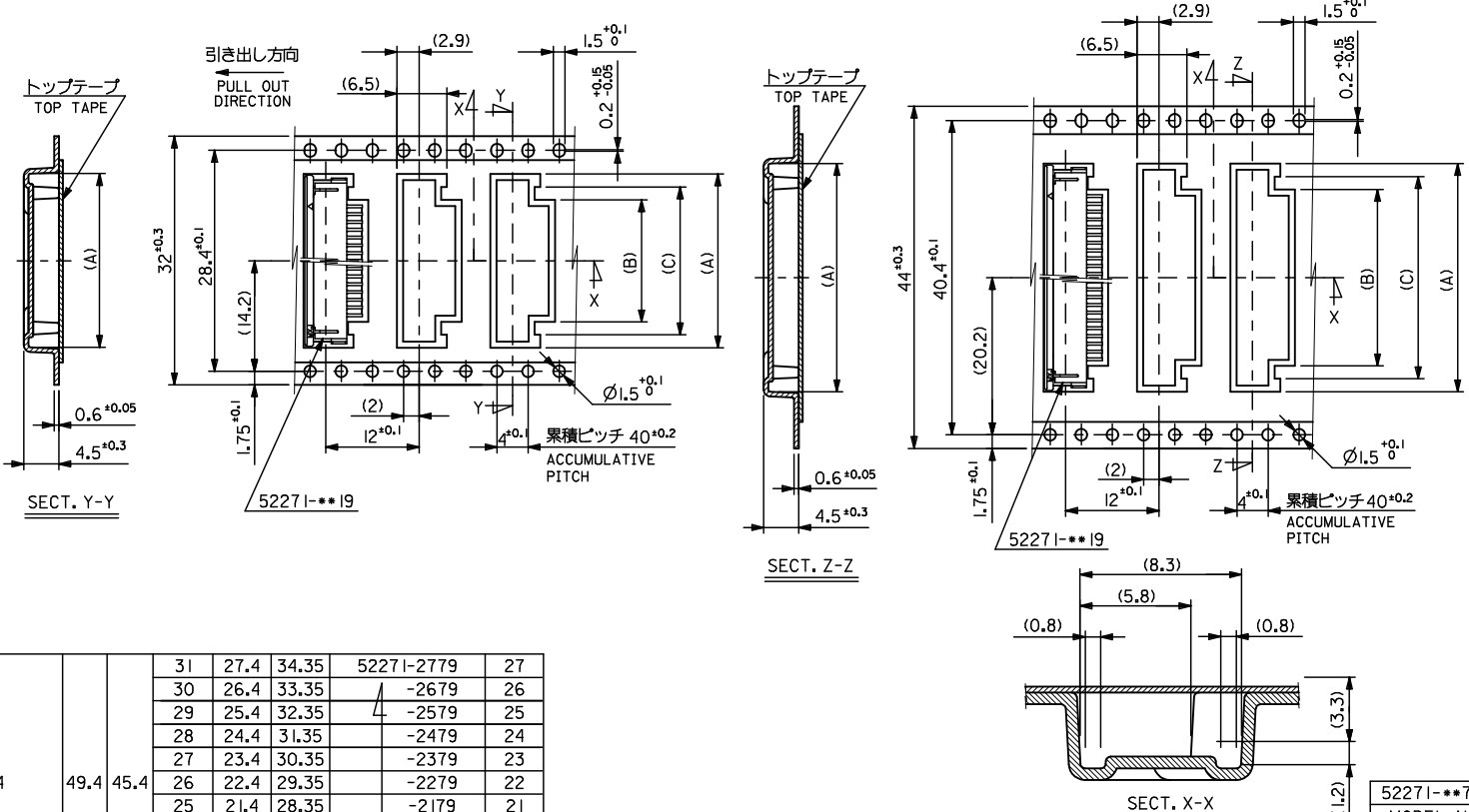
- 材料 (MATERIAL)
キャリアテープ (CARRIER TAPE)：ポリプロピレン (POLYPROPYLENE)
トップテープ (TOP TAPE)：PET, PE, PEF
リール (REEL)：ポリスチレン (PS) <リサイクル材を含む>
POLYSTYREN (PS) <RECYCLE MATERIAL CONTAINED>
- 本製品は52271-**90の鉛フリー品である。
THIS PRODUCT IS LEAD FREE OF 52271-**90.
- 本製品は乾燥剤入り、ハイバリア梱包仕様である。
THIS PRODUCT IS HIGH BARRIER PACKAGE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



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	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
EC NO: J2009-2061	2009/05/20	10 UNDER ±0.2	MM ONLY	---	METRIC	☉
DRW: KON	2009/05/21	10 OVER 30 UNDER ±0.25	DRAWN BY	H. KAWABATA	DATE	2004/03/12
CHK: H. MATSUMOTO	2009/05/21	30 OVER ±0.3	CHECKED BY	K. TOJO	DATE	2004/03/12
APP: R. NIKITA	2009/05/21	ANGULAR ±0.3	APPROVED BY	M. SASAO	DATE	2004/03/12
REV: A		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO.	SEE TABLE	DOCUMENT NO.	SD-52271-037
			SIZE	A3	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



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

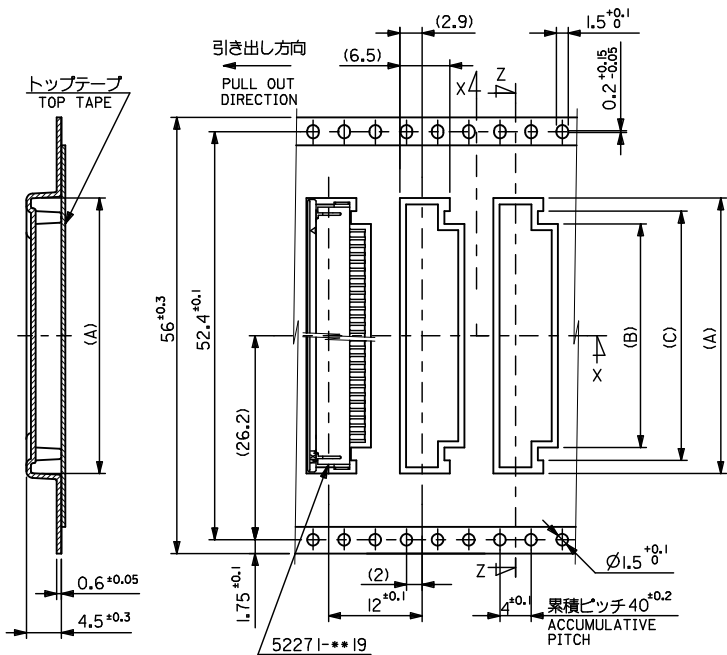
キャリアテープ幅 CARRIER TAPE WIDTH E D (C) (B) (A) MATERIAL NO. 備考 備考

REVISED EC NO: J2009-2061 DRAWN BY CHYKHMATSUMOTO APPROVED BY APPRENIKI TA 2009/05/20 2009/05/21 2009/05/21	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE MM ONLY	SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
	10 UNDER ±0.2	DRAWN BY H. KAWABATA	DATE 2004/03/12	TITLE EMBOSSSED TAPE PACKAGE FOR 52271-**-19 -LEAD FREE-	
	10 OVER 30 UNDER ±0.25	CHECKED BY K. TOJO	DATE 2004/03/12	MOLEX INCORPORATED	
	30 OVER ±0.3	APPROVED BY M. SASAO	DATE 2004/03/12	DOCUMENT NO. SD-52271-037	SHEET NO. 2 OF 3
ANGULAR ±3	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO. SEE TABLE	SIZE A3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

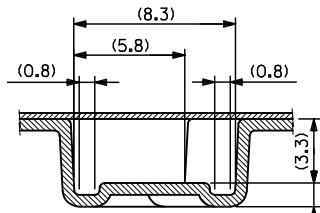
52271-**-79
MODEL NO.

EN-02JA(021)

10 9 8 7 6 5 4 3 2 1



SECT. Z-Z



SECT. X-X

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.	巻数 Ck.F.

ib_frame_A3_J_ME_S
Rev. E 2006/04/15

REVISED		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		MODEL NO.		52271-***79	
EC NO: J2009-2061	2009/05/20	10 UNDER	±0.2	MM ONLY		---		DESIGN UNITS		THIRD ANGLE PROJECTION	
DRAWN BY H. KAWABATA	2004/03/12	10 OVER 30 UNDER	±0.25	DATE		TITLE		METRIC		EMBOSSSED TAPE PACKAGE FOR 52271-***19 -LEAD FREE-	
CHKD: H. MATSUMOTO	2009/05/21	30 OVER	±0.3	DATE		MATERIAL NO.		APPROVED BY M. SASAO		MOLEX INCORPORATED	
APPR: N. ITO	2009/05/21	ANGULAR	±3	DATE		DOCUMENT NO.		DATE 2004/03/12		SD-52271-037	
DESCRIPTION		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SHEET NO.		3 OF 3			
REV: A		SIZE		A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

EN-02JA(021)