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Part Number: [0522712179](#)
Status: **Active**
Overview:
Description: 1.00mm (.039") Pitch FFC/FPC Connector, Right Angle, SMT, ZIF, Bottom Contact Style, 21 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) 21
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

Not Reviewed

Halogen-Free

Status

Not Reviewed

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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±MM DIMENSIONS IN METRIC DO NOT SCALE DRAWING

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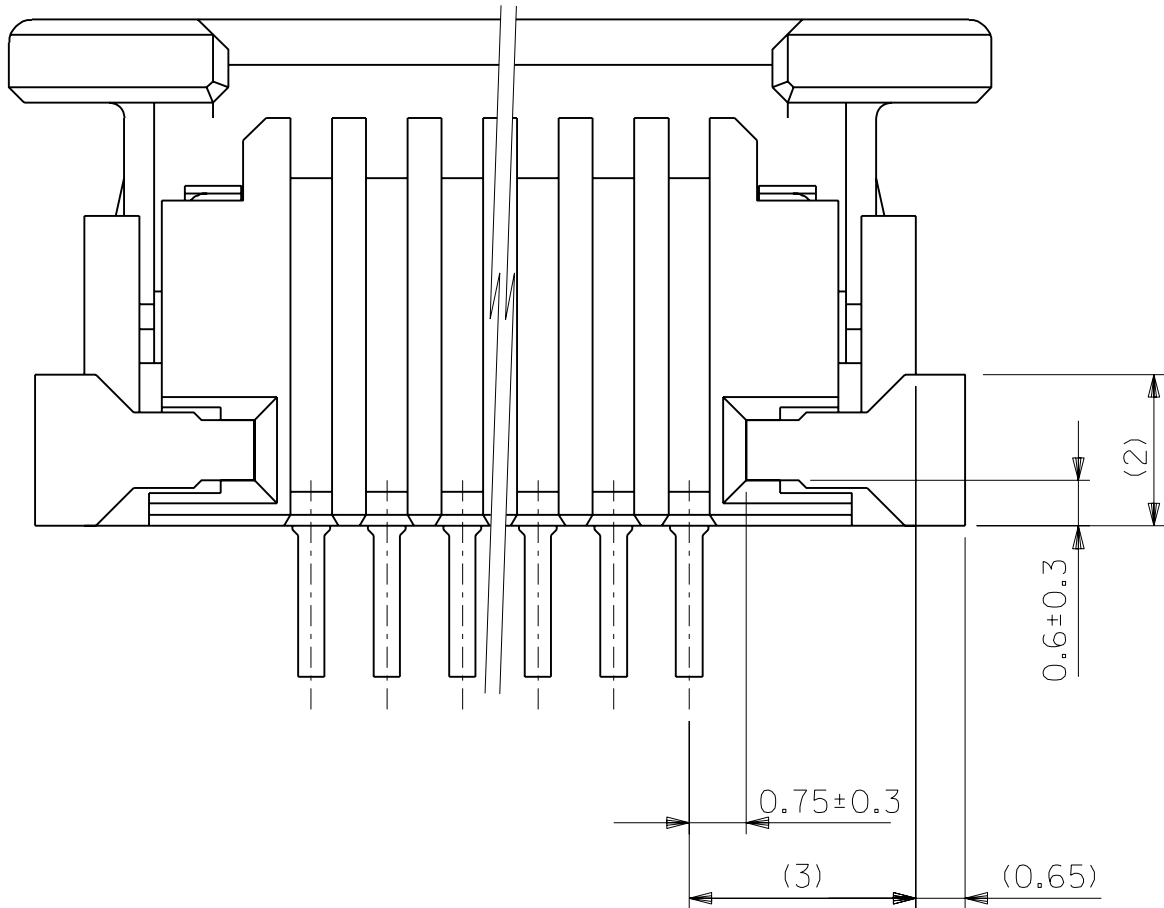
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注記 NOTES

- 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. エンボステーブル梱包時は、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-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 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							

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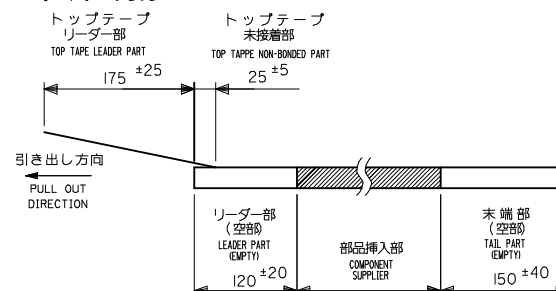
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NOTES

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。
 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

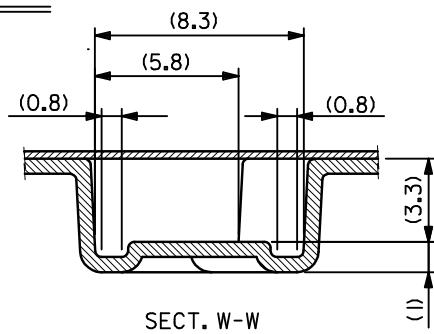
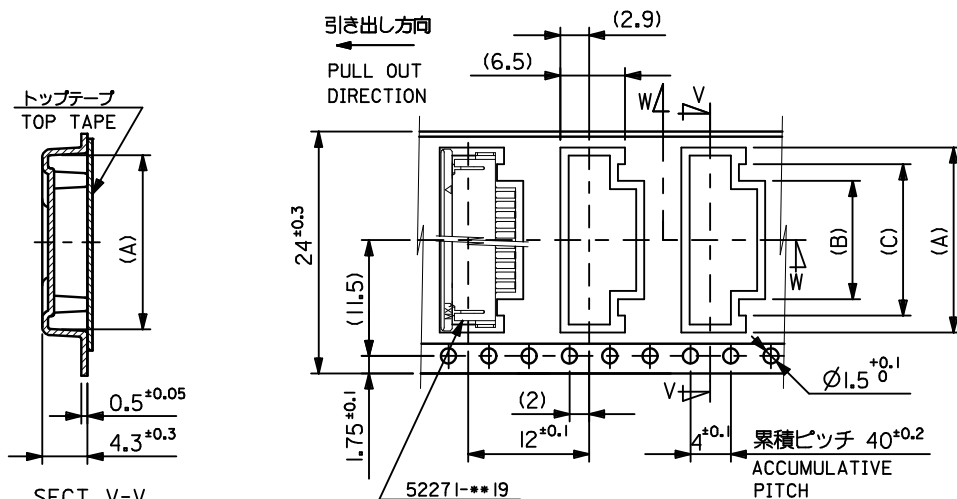
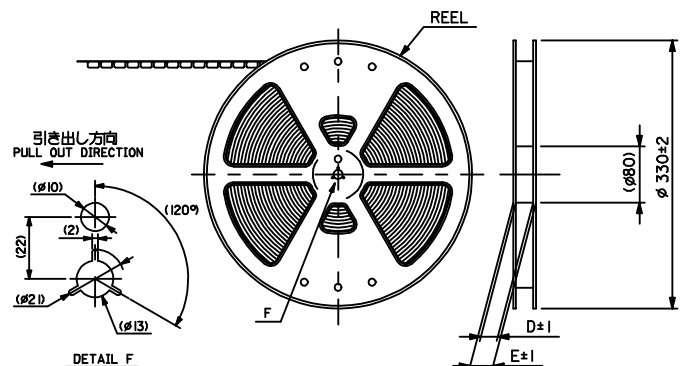
リール (REEL): ポリスチレン (PS) <リサイクル材を含む>

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.



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

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
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				13	9.4	16.3	-0979	9
				12	8.4	15.3	-0879	8
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				13	9.4	16.3	-0979	9
				12	8.4	15.3	-0879	8
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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

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
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				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

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				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

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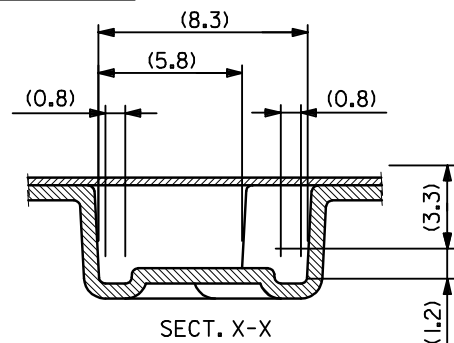
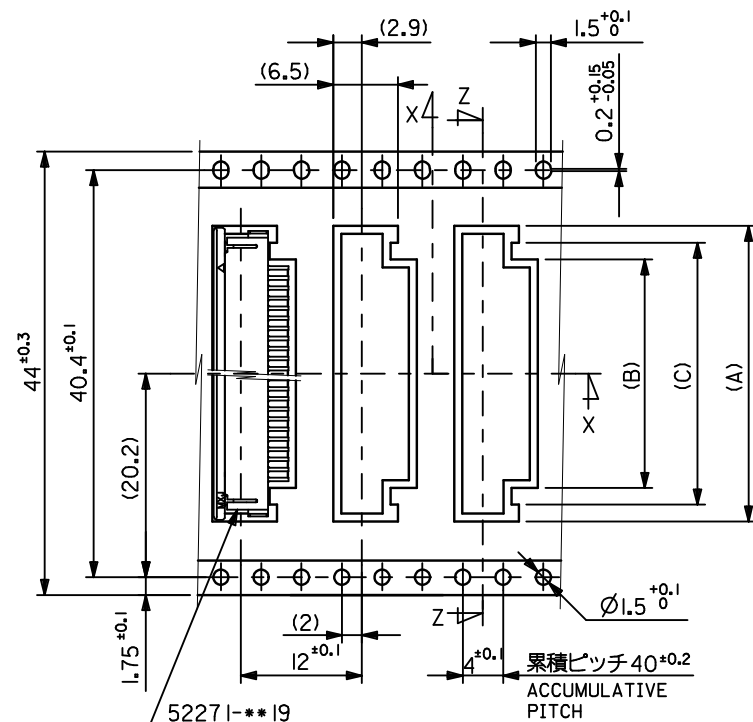
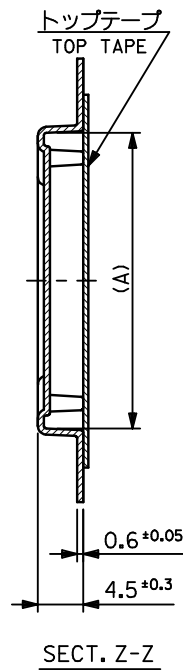
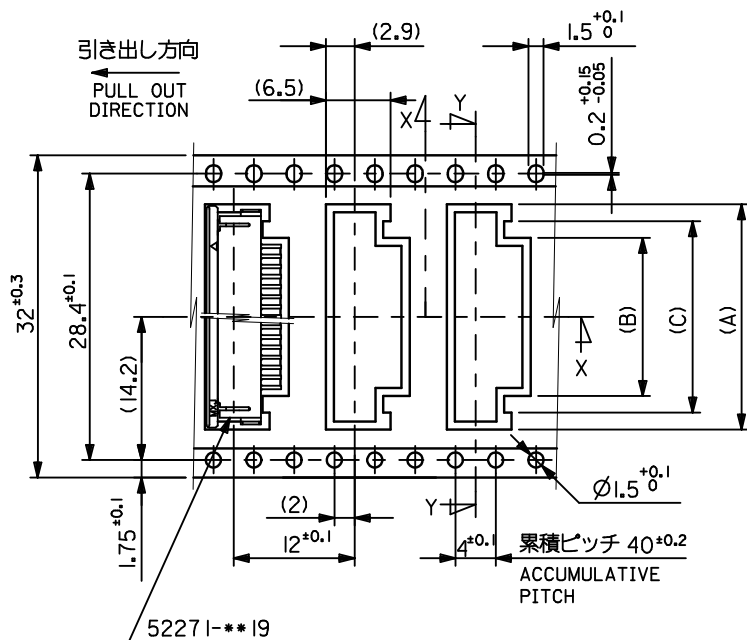
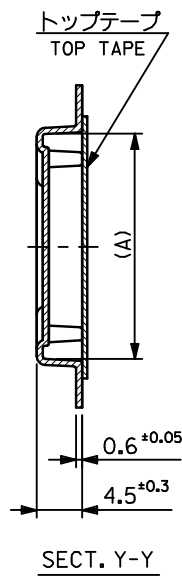
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44	49.4	45.4	31	27.4	34.35	52271-2779	27
			30	26.4	33.35	-2679	26
			29	25.4	32.35	-2579	25
			28	24.4	31.35	-2479	24
			27	23.4	30.35	-2379	23
			26	22.4	29.35	-2279	22
			25	21.4	28.35	-2179	21
			24	20.4	27.35	-2079	20
			23	19.4	26.35	-1979	19
			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

REVISED EC NO: J2009-2061 2009/05/20 DRWN:TKON CHKD:MATSUMOTO 2009/05/21 APPR:NUKITA 2009/05/21 REV A	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---		DESIGN UNITS METRIC		THIRD ANGLE PROJECTION			
		10 UNDER	±0.2	DRAWN BY	DATE	TITLE		EMBOSSED TAPE PACKAGE FOR 52271-**-19 -LEAD FREE-					
		10 OVER 30 UNDER	±0.25	CHECKED BY	DATE	MATERIAL NO.		MOLEX INCORPORATED					
		30 OVER	±0.3	APPROVED BY	DATE	SEE TABLE		SD-52271-037					
ANGULAR ±3°			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	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

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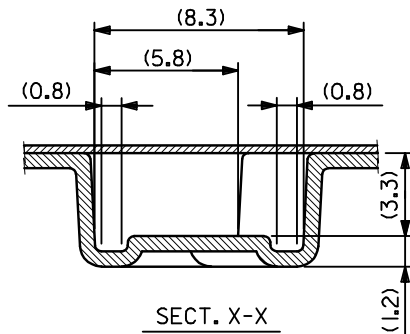
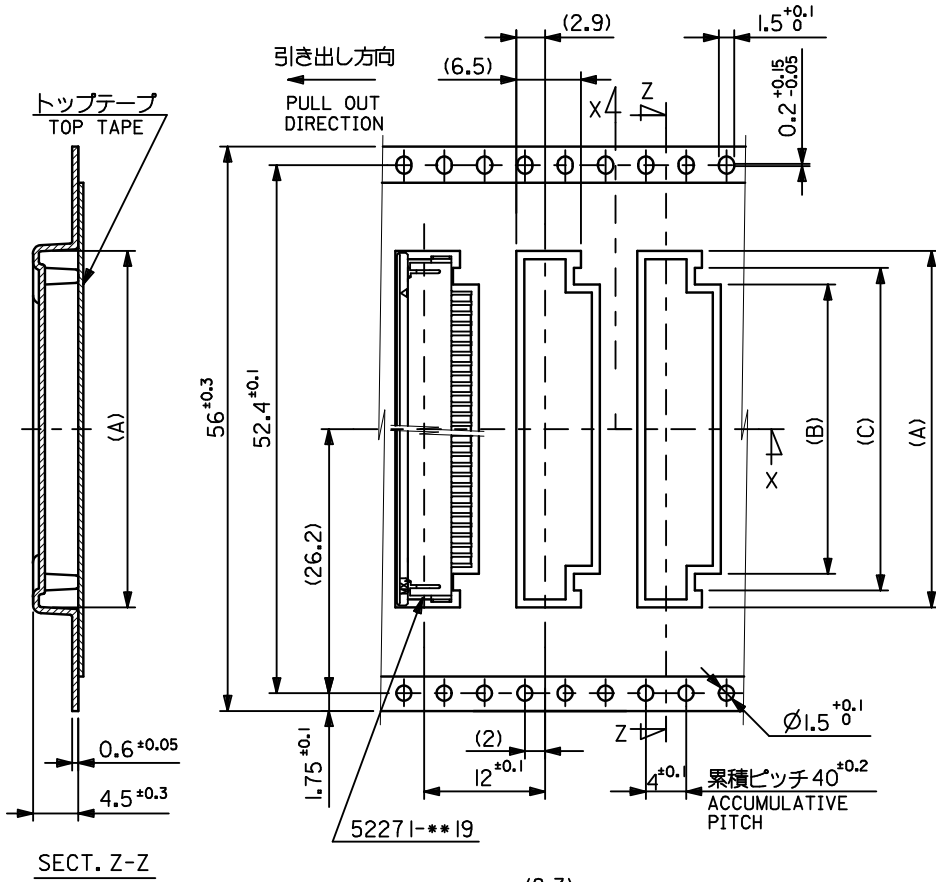
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56	61.4	57.4	34	30.4	37.35	5227I-3079	30
			33	29.4	36.35	5227I-2979	29
			32	28.4	35.35	5227I-2879	28
キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(C)	(B)	(A)	MATERIAL NO.	標 数 CKT.

tb_frame_A3_J_ME_S
Rev. E 2006/04/15

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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

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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

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