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Part Number:

0522713069

Status:

Active

Overview:

Description:

1.00mm (.039") Pitch FFC/FPC Connector, Right Angle, SMT, ZIF, Bottom Contact Style, 30 Circuits, Lead-free, Gold Contact Plating, 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

General

Product Family

Series

Overview

Product Name

FFC/FPC Connectors

52271

ffc_fpc_smt

N/A

Physical

Circuits (Loaded)

Color - Resin

Contact Position

Durability (mating cycles max)

Entry Angle

Flammability

Mated Height (in)

Mated Height (mm)

Material - Metal

Material - Plating Mating

Material - Plating Termination

Material - Resin

Number of Rows

Orientation

PCB Locator

PCB Retention

Packaging Type

Pitch - Mating Interface (in)

Pitch - Mating Interface (mm)

Polarized to PCB

Stackable

Temperature Range - Operating

Termination Interface: Style

Wire/Cable Type

30

Natural

Bottom

30

90° Angle

94V-0

0.118 In

3.00 mm

Phosphor Bronze

Gold

Tin

Nylon

1

Right Angle

No

Yes

Embossed Tape on Reel

0.039 In

1.00 mm

Yes

No

-20°C to +85°C

Surface Mount

FFC/FPC

Electrical

Current - Maximum per Contact

Voltage - Maximum

0.5A

50V AC (RMS)/DC

Material Info

Reference - Drawing Numbers

Application Specification

Packaging Specification

Product Specification

Sales Drawing

AS-52271-001

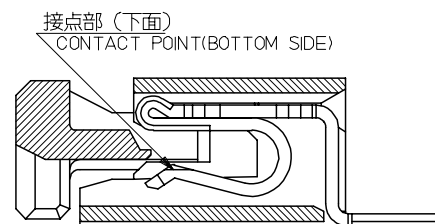
SPK-52271-001, SPK-52271-002

PS-52271-054, RPS-52271-074, RPS-52271-076, RPS-52271-078, RPS-52271-079, RPS-52271-081, RPS-52271-082, RPS-52271-083, RPS-52271-084, RPS-52271-086, RPS-52271-088, RPS-52271-090

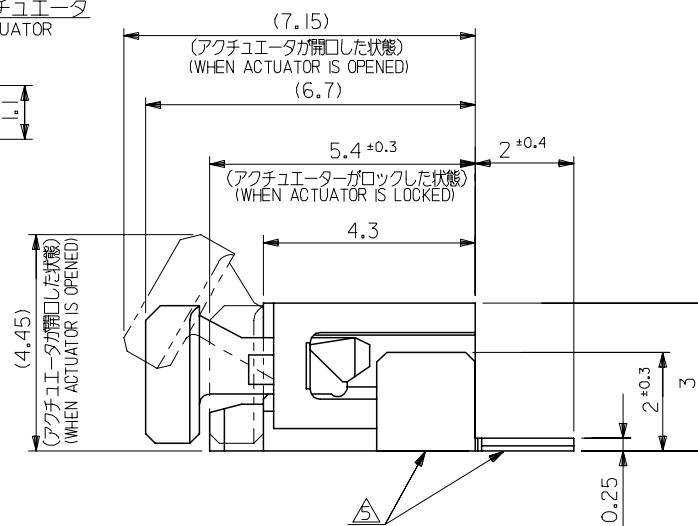
SD-52271-038, SD-52271-039

This document was generated on 06/04/2010

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SECT.D-D



35	31.2	29	52271-3029	30
34	30.2	28	52271-2929	29
33	29.2	27	52271-2829	28
32	28.2	26	52271-2729	27
31	27.2	25	52271-2629	26
30	26.2	24	52271-2529	25
29	25.2	23	52271-2429	24
28	24.2	22	52271-2329	23
27	23.2	21	52271-2229	22
26	22.2	20	52271-2129	21
25	21.2	19	52271-2029	20
24	20.2	18	52271-1929	19
23	19.2	17	52271-1829	18
22	18.2	16	52271-1729	17
21	17.2	15	52271-1629	16
20	16.2	14	52271-1529	15
19	15.2	13	52271-1429	14
18	14.2	12	52271-1329	13
17	13.2	11	52271-1229	12
16	12.2	10	52271-1129	11
15	11.2	9	52271-1029	10
14	10.2	8	52271-0929	9
13	9.2	7	52271-0829	8
12	8.2	6	52271-0729	7
11	7.2	5	52271-0629	6
10	6.2	4	52271-0529	5
9	5.2	3	52271-0429	4
C	B	A	MATERIAL NO.	CIRCUITS

52271-xx29		MODEL NO.	
SCALE 10:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
TITLE			
1.0 FPC CONN ZIF SMT (BOTTOM CONTACT) -LEAD FREE-			
MOLEX MOLEX INCORPORATED			
DOCUMENT NO. SD-52271-038			SHEET NO. 1 OF 2

CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX
DO NOT BE USED WITHOUT WRITTEN PERMISSION

REVISED	EC NO: J2006-1261	2005/10/19	DFW:MUMEDA	2005/10/19	CHK:K.TOYODA	2005/10/19	APPR:NUKITA	2005/10/21	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 10:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
										10 UNDER	± 0.2	DRAWN BY M.UMEDA	DATE 2005/03/08	TITLE 1.0 FPC CONN ZIF SMT (BOTTOM CONTACT) -LEAD FREE-			
										10 OVER 30 UNDER	± 0.25	CHECKED BY K. TOYODA	DATE 2005/03/08				
										30 OVER	± 0.3	APPROVED BY N.UKITA	DATE 2005/03/08	MOLEX INCORPORATED			
										ANGULAR ±3 °		MATERIAL NO.					
										DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-52271-038		1 OF 2	
D	REV			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													



△₁ 接点部までの嵌合長さ.
LENGTH TO CONTACT POINT.

ハウジング : 46 NYLON, UL94V-0

アクチュエータ : PPS, UL94V-0

ターミナル : リン青銅 (t=0,25)

TERMINAL PHOSPHOR BRONZE
终端部: 合金部

PLATING CONTACT PORTION

: 半田付部: 錫メツキ

SOLDERING PORT

：下地：ニッケルメツ
UNDER PLATING

全目 : 銅合金 (t=0.25)

FITTING NAIL CAPPER ALLOY (t:

：メツキ：錫メツキ

PLATING : TIN P

: 下地: ニッケルメツ
UNDER PLATING

UNDER PLATING

△ 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。
IN THE PACKAGE, ACTUATOR OF PART NO.54550-**-29 SHOULD BE LOCKED.

△5 テール及び金具の平坦度は、0.15 以下とする。
TAIL AND NAIL COPLANRITY TO BE 0.15 MAXIMUM.

△6 パターン書き込み禁止エリア
NO FOOT PRINT AREA.

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。

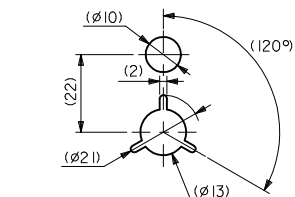
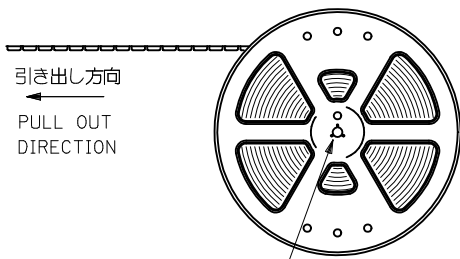
接着剤は、熱硬化接着剤を推奨致します。

ABOUT FPC :

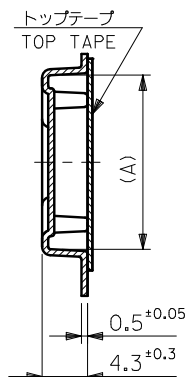
RECOMMENDED PUNCHER DIRECTION :
FROM CONDUCTOR SIDE TO STIFFENER BOARD SIDE

RECOMMENDED MATERIAL :
STIFFENER FILM : POLYIMIDE
BONDING AGENT : THERMOSETTING BONDING AGENT

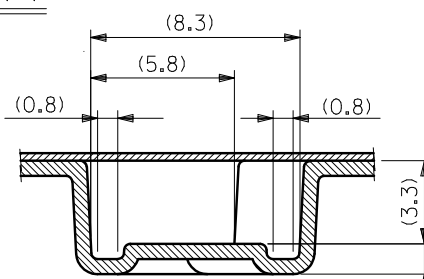
REVISED	EC NO: J2006-4261	2005/10/19	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
	DRW:WUMEDA	2005/10/19		10 UNDER	±0.2	M.UMEDA	2005/03/08	TITLE 1.0 FPC CONN ZIF SMT (BOTTOM CONTACT) -LEAD FREE-				
	CHK:KATOYODA	2005/10/19		10 OVER 30 UNDER	±0.25	K.TOYODA	2005/03/08					
	APPR:NUKITA	2005/10/21		30 OVER	±0.3	APPROVED BY N.UKITA	2005/03/08					
	D	REV		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 1		SD-52271-038		2 OF 2		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				



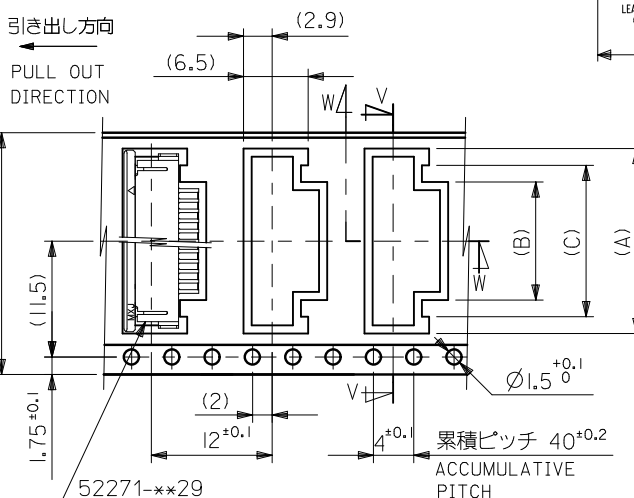
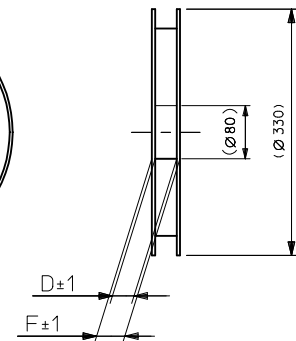
DETAIL "E"



SECT. V-V

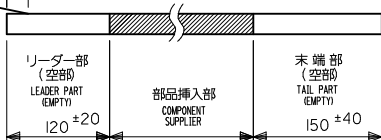


SECT. W-W



NOTES

- 製品番号 52271-**-29 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-52271-038 を参照下さい。
IN THE PACKAGE, ACTUATOR OF PART NO. 52271-**-29 SHOULD BE LOCKED
RE DETAILED DIMENSIONS, SEE SD-52271-038.
- 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 未接層部 TOP TAPE NON-BONDED PART 25 ±5
- カバーテープの剥離強度については、IEC60286-3に準拠
COVER TAPE PEEL FORCE IS DEFINED BY IEC60286-3
- 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	52271-1169	11
			14	10.4	17.3	52271-1069	10
			12	8.4	15.3	52271-0869	8
			11	7.4	14.3	52271-0769	7
			10	6.4	13.3	52271-0669	6
			9	5.4	12.3	52271-0569	5
CARRIER TAPE WIDTH	F	D	8	4.4	11.3	52271-0469	4
			(C)	(B)	(A)	MATERIAL NO.	極数 CKT.

REVISED EC NO: J2010-2474 DRWN: YUHASEGAWA 2010/06/08 CHKD: K. TOYODA 2010/06/08 APPR: KMORI KAWA 2010/06/09	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		52271-**-69		MODEL NO.	
		10 UNDER ±0.2		DRAWN BY DATE M. UEDA 2005/03/08		SCALE ---		DESIGN UNITS METRIC	
		10 OVER 30 UNDER ±0.25		CHECKED BY DATE K. TOYODA 2005/03/08		TITLE EMBOSSD TAPE PACKAGE FOR 52271-**-29 -LEAD FREE-		THIRD ANGLE PROJECTION	
		30 OVER ±0.3		APPROVED BY DATE N. UKITA 2005/03/08		MOLEX INCORPORATED		SHEET NO. 1 OF 4	
G	REV	ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SD-52271-039	
		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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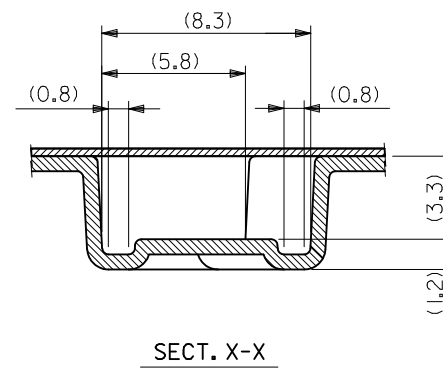
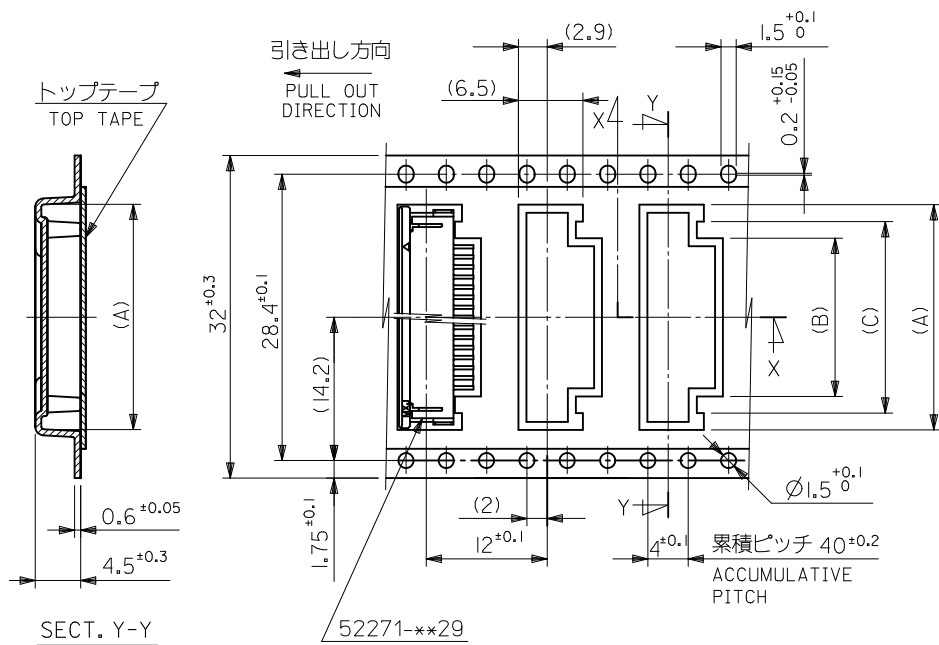
E

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32	37.4	33.4	20	16.4	23.35	52271-1669	16
			19	15.4	22.35	52271-1569	15
			18	14.4	21.35	52271-1469	14
			17	13.4	20.35	52271-1369	13
			16	12.4	19.35	52271-1269	12
キャリアテープ幅 CARRIER TAPE WIDTH	F	D	(C)	(B)	(A)	MATERIAL NO.	極 数 CKT.

REVISED EC NO: J2010-2474 DRWN: YU HASEGAWA 2010/06/08 CHKD: K. TOYODA 2010/06/08 APPR: KMORI KAWA 2010/06/09	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	M. UMEDA	2005/03/08	TITLE EMBOSSD TAPE PACKAGE FOR 52271-**-29 -LEAD FREE-				
		10 OVER 30 UNDER	± 0.25	K. TOYODA	2005/03/08					
		30 OVER	± 0.3	N. UKITA	2005/03/08	MOLEX INCORPORATED				
		ANGULAR ±3 °		MATERIAL NO.			DOCUMENT NO.			SHEET NO.
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE			SD-52271-039			2 OF 4	
	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

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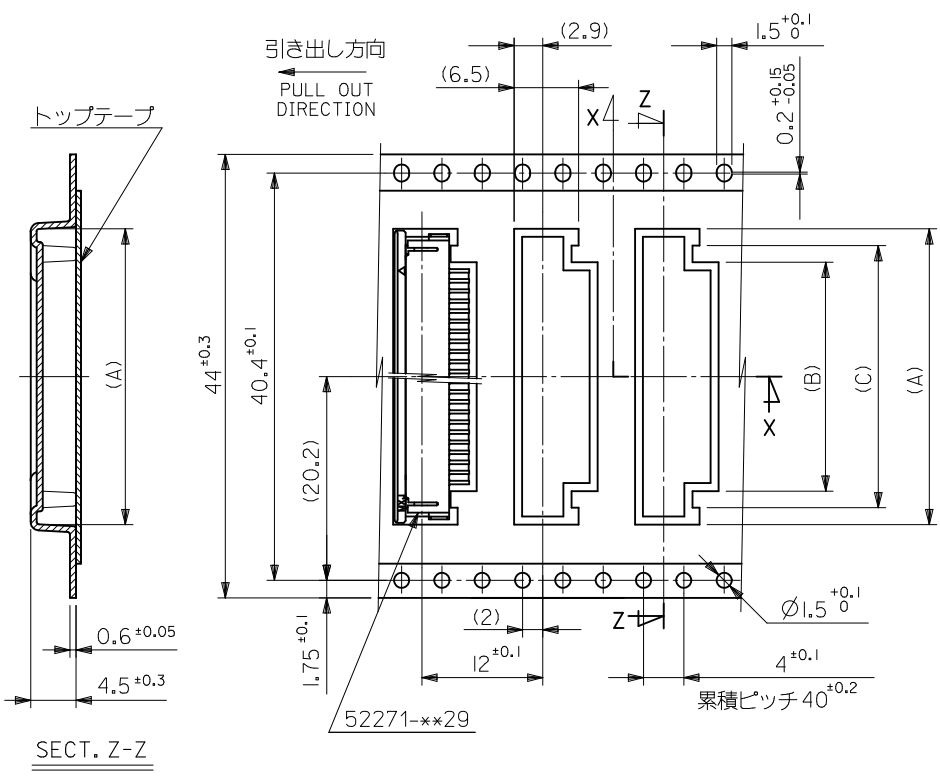
E

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44	49.4	45.4	31	27.4	34.35	52271-2769	27
			29	25.4	32.35	52271-2569	25
			28	24.4	31.35	52271-2469	24
			26	22.4	29.35	52271-2269	22
			25	21.4	28.35	52271-2169	21
			24	20.4	27.35	52271-2069	20
			23	19.4	26.35	52271-1969	19
			22	18.4	25.35	52271-1869	18
			21	17.4	24.35	52271-1769	17
キャリアテープ幅	F	D	(C)	(B)	(A)	MATERIAL NO.	極数

REVISED EC NO: J2010-2474 DRWN: YUASEGAWA 2010/06/08 CHKD: K. TOYODA 2010/06/08 APPR: KMORI KAWA 2010/06/09	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---		DESIGN UNITS METRIC		THIRD ANGLE PROJECTION						
		10 UNDER	± 0.2	DRAWN BY	DATE	TITLE										
		10 OVER 30 UNDER	± 0.25	M. UMEDA	2005/03/08	EMBOSSD TAPE PACKAGE FOR 52271-**29 -LEAD FREE-										
		30 OVER	± 0.3	CHECKED BY	DATE											
		ANGULAR ± 3 °		K. TOYODA	2005/03/08	MOLEX INCORPORATED										
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		APPROVED BY	DATE	SD-52271-039										
				N. UKITA	2005/03/08											
				MATERIAL NO.		DOCUMENT NO.		SHEET NO.								
				SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										

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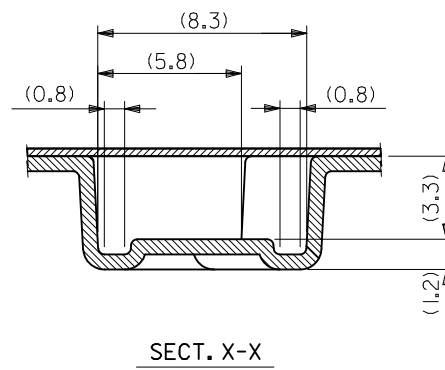
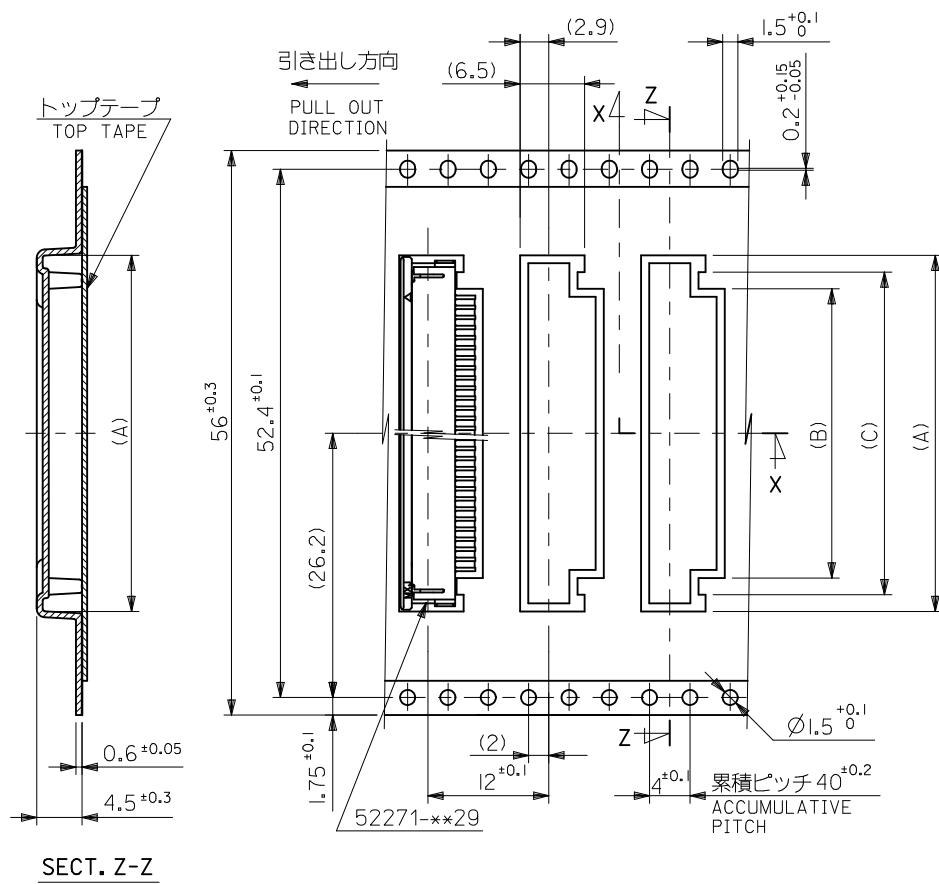
E

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56	61.4	57.4	34	30.4	37.35	52271-3069	30
			32	28.4	35.35	52271-2869	28
キャリアテープ幅 CARRIER TAPE WIDTH			(C)	(B)	(A)	MATERIAL NO.	極数 CKT.

REVISED	EC NO. J2010-2474	DRWN: YU HASEGAWA	2010/06/08	CHK'D: K. TOYODA	2010/06/08	APPR: KMORI KAWA	2010/06/09	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		TITLE EMBOSSED TAPE PACKAGE FOR 52271-**-29 -LEAD FREE-
									10 UNDER	± 0.2	DRAWN BY M. UMEDA	DATE 2005/03/08	MOLEX INCORPORATED				
									10 OVER 30 UNDER	± 0.25	CHECKED BY K. TOYODA	DATE 2005/03/08					
									30 OVER	± 0.3	APPROVED BY N. UKITA	DATE 2005/03/08					
									ANGULAR ± 3 °		MATERIAL NO.						
									DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE						
G	REV			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												
				SD-52271-039													
												DOCUMENT NO.		SHEET NO. 4 OF 4			

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