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Part Number:

0522711269

Status:

Active

Overview:

Description:

1.00mm (.039") Pitch FFC/FPC Connector, Right Angle, SMT, ZIF, Bottom Contact Style, 12 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.

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)	12
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	Gold
Material - Plating Termination	Tin
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	-20°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

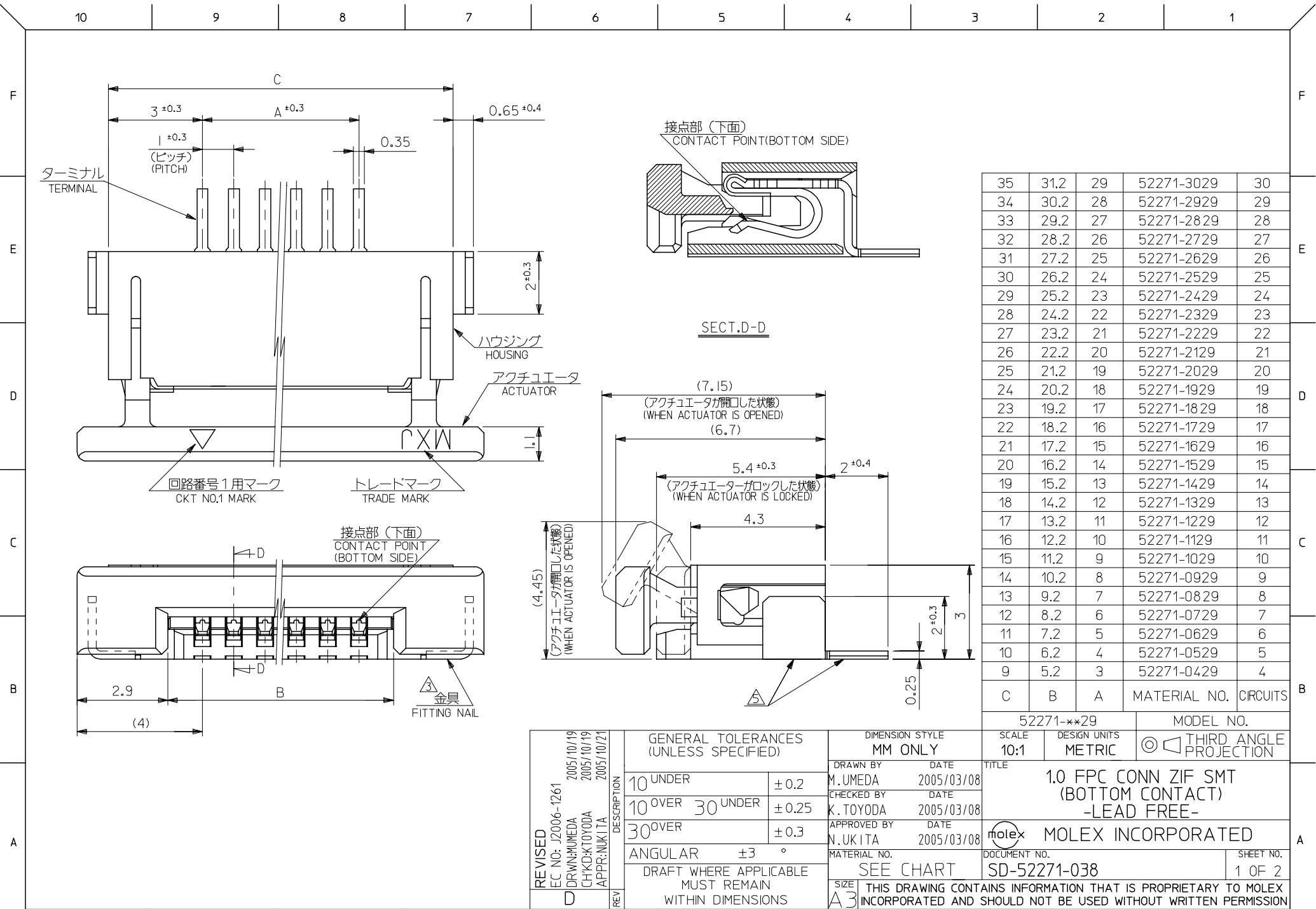
Application Specification	AS-52271-001
Packaging Specification	SPK-52271-001, SPK-52271-002
Product Specification	PS-52271-054, RPS-52271-076, RPS-52271-078, RPS-52271-079, RPS-52271-081, RPS-52271-082, RPS-52271-083, RPS-52271-084, RPS-52271-086, RPS-52271-088, RPS-52271-090
Sales Drawing	SD-52271-038, SD-52271-039

Search Parts in this Series

52271Series

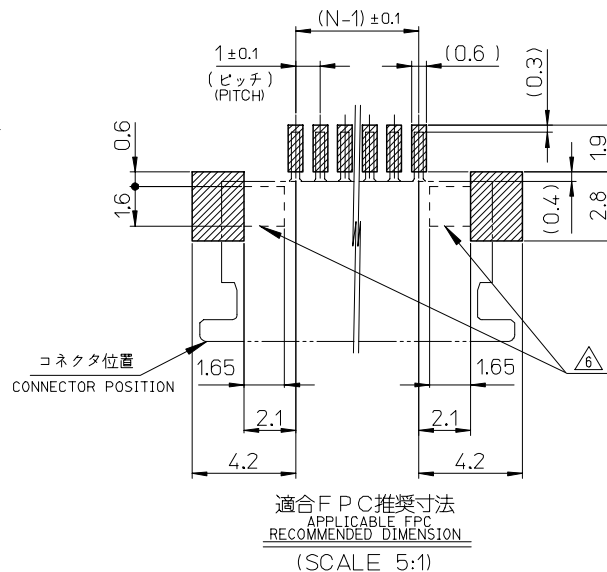
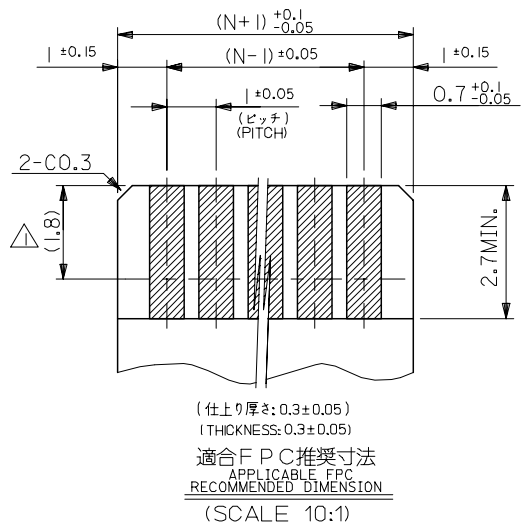
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35	31.2	29	52271-3029	30
34	30.2	28	52271-2929	29
33	29.2	27	52271-2829	28
32	28.2	26	52271-2729	27
31	27.2	25	52271-2629	26
30	26.2	24	52271-2529	25
29	25.2	23	52271-2429	24
28	24.2	22	52271-2329	23
27	23.2	21	52271-2229	22
26	22.2	20	52271-2129	21
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 INCORPORATED		
DOCUMENT NO. SD-52271-038		SHEET NO. 1 OF 2	
ALL INFORMATION THAT IS PROPRIETARY TO MOLEX SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			



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 NYLON, UL94V-0
HOUSING
アクチュエータ : PPS, UL94V-0
ACTUATOR
ターミナル : リン青銅 (t=0.25)
TERMINAL PHOSPHOR BRONZE (t=0.25)
メッキ : 接点部 : 金メッキ : 0.1 MICROMETER MIN.
PLATING CONTACT PORTION : GOLD PLATING : 0.1 MICROMETER MIN.
半田付部 : 錫メッキ : 1.0 MICROMETER MIN.
SOLDERING PORTION : TIN PLATING : 1.0 MICROMETER MIN.
下地 : ニッケルメッキ : 1.0 MICROMETER MIN.
UNDER PLATING : NICKEL PLATING : 1.0 MICROMETER MIN.
金具 : 銅合金 (t=0.25)
FITTING NAIL CAPPER ALLOY (t=0.25)
メッキ : 錫メッキ : 1.0 MICROMETER MIN.
PLATING : TIN PLATING : 1.0 MICROMETER MIN.
下地 : ニッケルメッキ : 1.0 MICROMETER MIN.
UNDER PLATING : NICKEL PLATING : 1.0 MICROMETER MIN.
- △ 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.
- △ テール及び金具の平坦度は、0.15 以下とする。
TAIL AND NAIL COPLANARITY TO BE 0.15 MAXIMUM.
- △ 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: J2006-1261	2005/10/19	DRWN:MUNEDA	2005/10/19	CHKD:K.TOYODA	2005/10/21	APPR:NUKITA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	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.		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"

トップテープ
TOP TAPE

(A)

0.5 $\pm$ 0.05

4.3 $\pm$ 0.3

SECT. V-V

Technical drawing of a door frame assembly. The drawing shows a cross-section of the frame with dimensions and tolerances. The main dimensions are:

- Overall height: $(\varnothing 330)$
- Inner diameter: $(\varnothing 80)$
- Dimension $D \pm 1$ (horizontal distance from the centerline to the outer edge of the frame).
- Dimension $F \pm 1$ (horizontal distance from the centerline to the inner edge of the frame).

引き出し方向
PULL OUT DIRECTION

(6.5) (2.9)

$\frac{W}{2}$

(11.5)

$\frac{V}{2}$

(B) (C) (A)

$\phi 1.5^{+0.1}_0$

1.75 ± 0.1

(2)

12 ± 0.1

4 ± 0.1

累積ピッチ 40 ± 0.2
ACCUMULATIVE PITCH

52271-xx29

NOTES

l. 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, AUTUATOR OF PART NO. 52271-**29 SHOULD BE LOCKED
RE DETAILED DIMENSIONS, SEE SD-52271-038.

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

トップテ-
リーダ-部

トップテ
未接着部

TOP TAPE LEADER PA

TOP TAPPE NON-BONDED PART

175 ± 25 25 ± 5

引き出し方向
PULL OUT
DIRECTION

リーダー部 (空部)
 LEADER PART (EMPTY)
 120 ± 20

部品挿入部
 COMPONENT SUPPLIER

末端部 (空部)
 TAIL PART (EMPTY)
 150 ± 40

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
			8	4.4	11.3	52271-0469	4
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 DRAWN: YUHASAGAWA 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	DRAWN BY M. UMEDA	DATE 2005/03/08	TITLE EMBOSSD TAPE PACKAGE FOR 52271-**29 -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				
			ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-52271-039		1 OF 4	
			REV	G			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

F

E

D

C

B

A

F

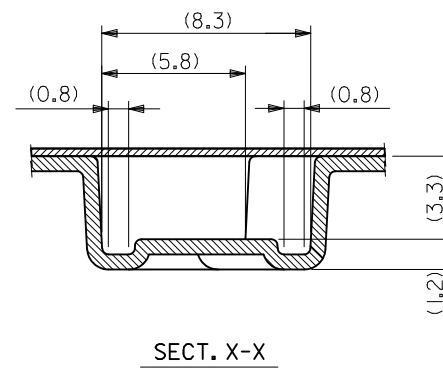
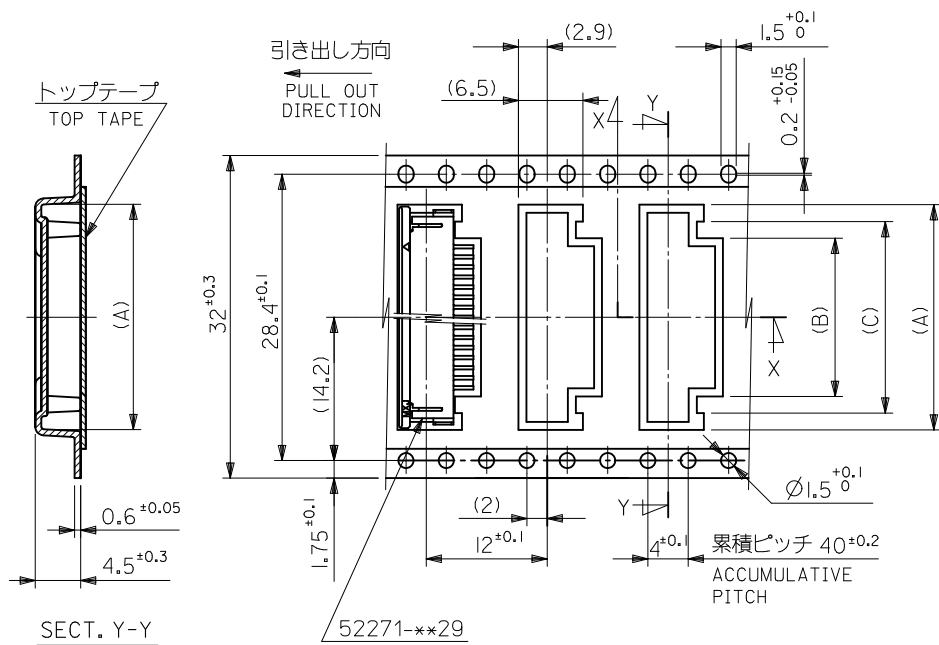
E

D

C

B

A



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		
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		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.						
	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						

F

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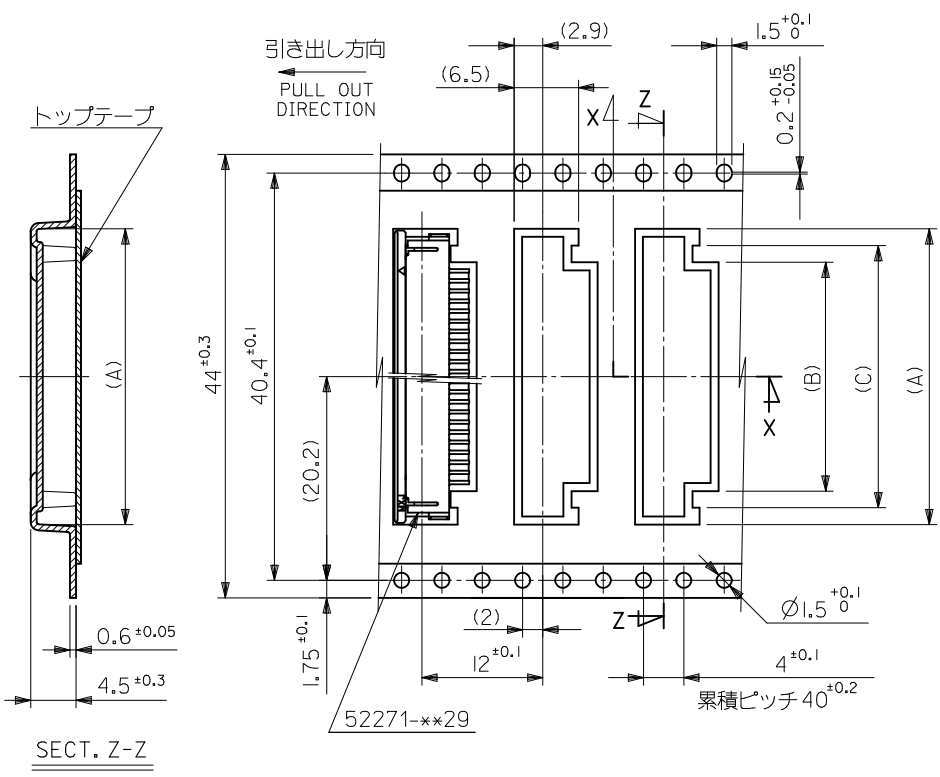
E

D

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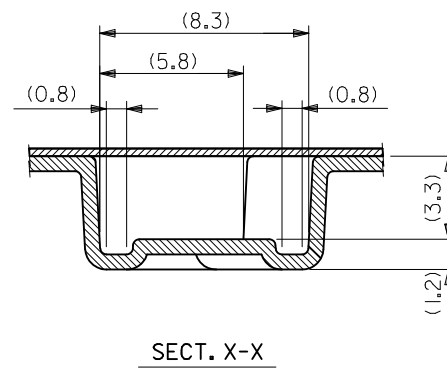
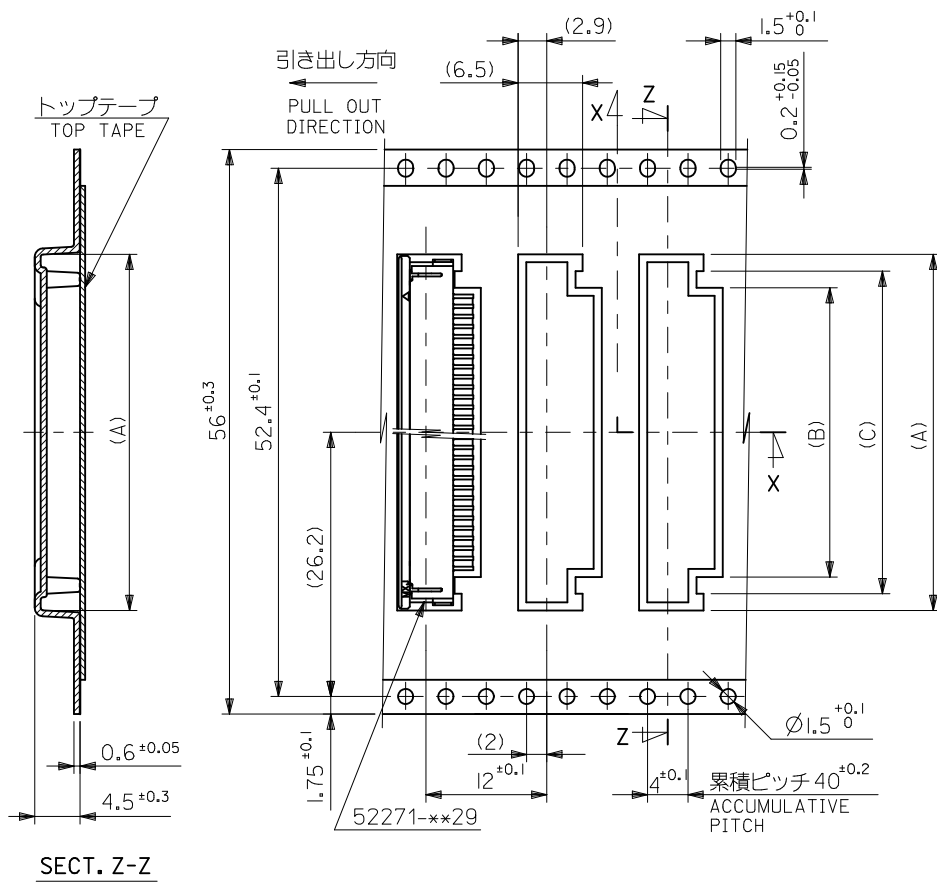
A



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: YUHASEGAWA 2010/06/08 CHKD: K. TOYODA 2010/06/08 APPR: KMORIKAWA 2010/06/09	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---		DESIGN UNITS METRIC		THIRD ANGLE PROJECTION					
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		30 OVER	± 0.3	CHECKED BY	DATE										
		ANGULAR ± 3 °		APPROVED BY	DATE	MOLEX INCORPORATED									
G		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		N. UKITA	2005/03/08										
				MATERIAL NO.		SEE TABLE		DOCUMENT NO.		SHEET NO.					
				SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SD-52271-039		3 OF 4					

10 9 8 7 6 5 4 3 2 1



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: YUASEGAWA 2010/06/08 CHKD: K. TOYODA 2010/06/08 APPR: KMORI KAWA 2010/06/09 G	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
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		ANGULAR ±3 °		MATERIAL NO.						
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-52271-039		4 OF 4		
	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								