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Part Number: 0522711669
Status: Active
Overview:
Description: 1.00mm (.039") Pitch FFC/FPC Connector, Right Angle, SMT, ZIF, Bottom Contact Style, 16 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
UL	E29179

General

Product Family	FFC/FPC Connectors
Series	52271
Overview	ffc_fpc_smt
Product Name	N/A

Physical

Circuits (Loaded)	16
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

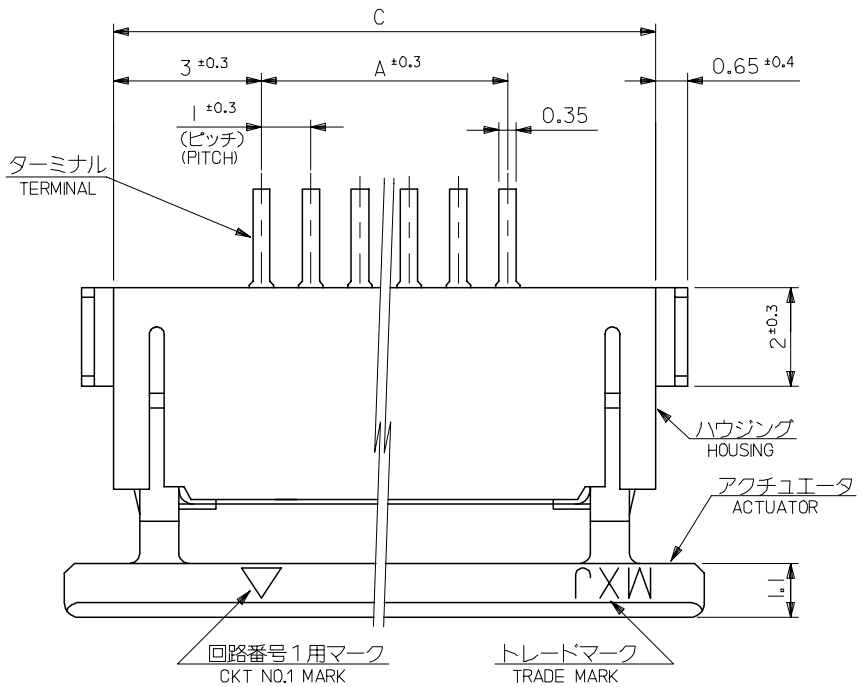
Material Info

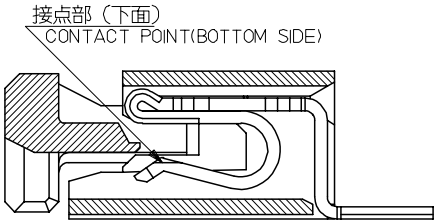
Reference - Drawing Numbers

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

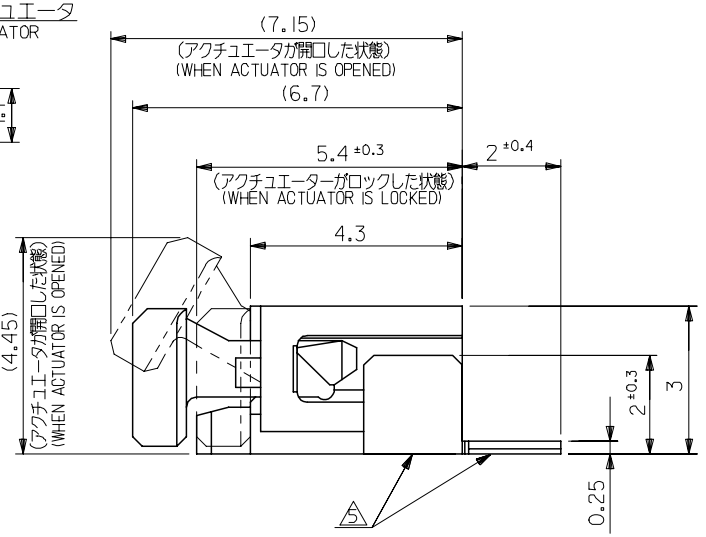
This document was generated on 06/04/2010

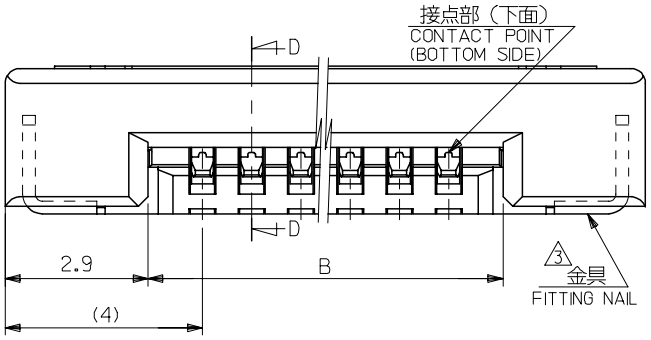
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION





SECT.D-D





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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-**29 — MODEL NO.

REVISED
EC NO: J2006-1261 2005/10/19
DRWN:MUMEDA 2005/10/19
CHKD:KTOYODA 2005/10/21
APPR:NUKITA

REV: D

DESCRIPTION

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: 10:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

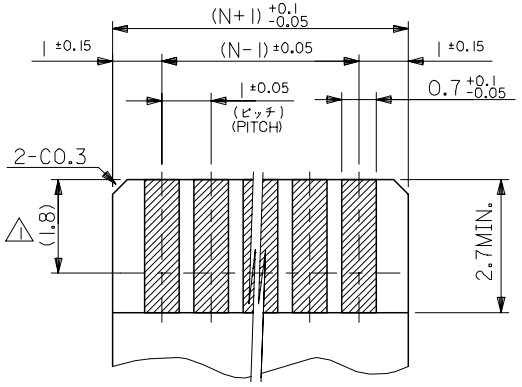
DRAWN BY	M.UMEDA	DATE 2005/03/08
CHECKED BY	K.TOYODA	DATE 2005/03/08
APPROVED BY	N.UKITA	DATE 2005/03/08

TITLE: 1.0 FPC CONN ZIF SMT (BOTTOM CONTACT) -LEAD FREE-

molex MOLEX INCORPORATED

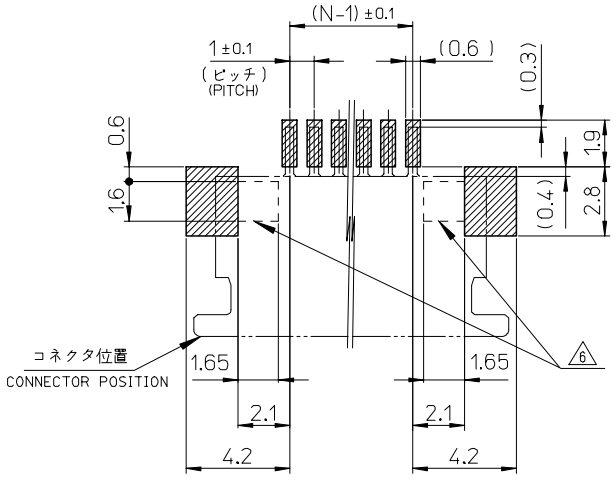
MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-52271-038
SHEET NO.: 1 OF 2

SIZE: A3



(仕上り厚さ:0.3±0.05)
(THICKNESS:0.3±0.05)

適合ＦＰＣ推奨寸法
APPLICABLE FPC
RECOMMENDED DIMENSION
(SCALE 10:1)



適合ＦＰＣ推奨寸法
APPLICABLE FPC
RECOMMENDED DIMENSION
(SCALE 5:1)

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 HOUSING	：	46 NYLON, UL94V-0
アクチュエータ ACTUATOR	：	PPS, UL94V-0
ターミナル TERMINAL	：	リン青銅 (t=0.25) PHOSPHOR BRONZE (t=0.25)
メッキ PLATING	：	接点部：金メッキ： 0.1 MICROMETER MIN. 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 FITTING NAIL	：	銅合金 (t=0.25) 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.

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

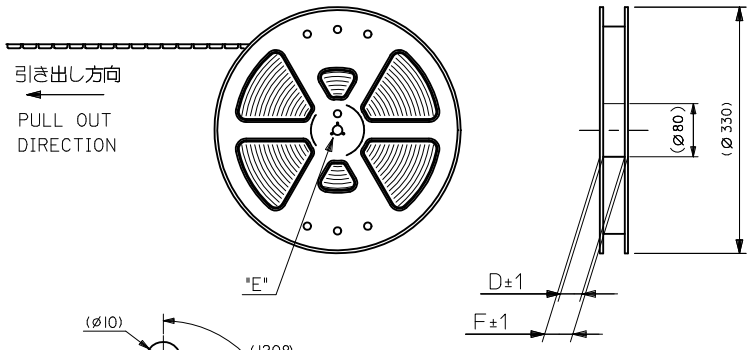
REVISED				REV
EC NO: J2006-1261	2005/10/19	DESCRIPTION		D
DRWN:M.UMEDA	2005/10/19			
CHKD:K.TOYODA	2005/10/21			
APPR:N.UKITA				

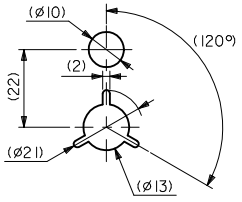
GENERAL TOLERANCES (UNLESS SPECIFIED)

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
MODEL NO.	52271-**29
	THIRD ANGLE PROJECTION
DRAWN BY / DATE	M.UMEDA 2005/03/08
CHECKED BY / DATE	K.TOYODA 2005/03/08
APPROVED BY / DATE	N.UKITA 2005/03/08
TITLE	1.0 FPC CONN ZIF SMT (BOTTOM CONTACT) -LEAD FREE-
	MOLEX INCORPORATED
MATERIAL NO.	SEE SHEET 1
DOCUMENT NO.	SD-52271-038
SHEET NO.	2 OF 2
SIZE	A3

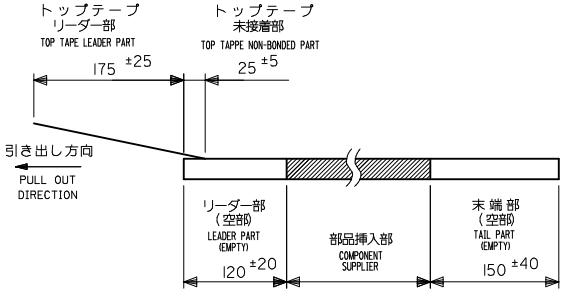




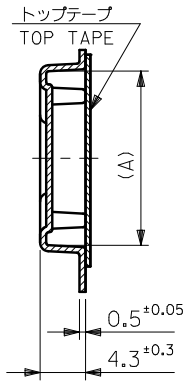
DETAIL "E"

NOTES

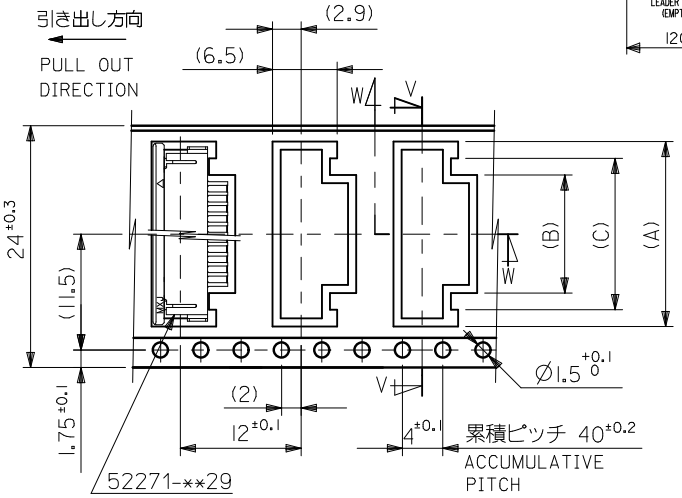
1. 製品番号 52271-**29 の梱包状態はアクチュエータがロックした状態とする。
詳細寸法については 図面 SD-52271-038 を参照下さい。
IN THE PACKAGE, AUTUATOR OF PART NO. 52271-**29 SHOULD BE LOCKED
RE DETAILED DIMENSIONS, SEE SD-52271-038.
2. 梱包数量：1000個／リール
NUMBER OF CONNECTORS : 1000 PCS/REEL
3. リードテープ長さ LEAD TAPE LENGTH

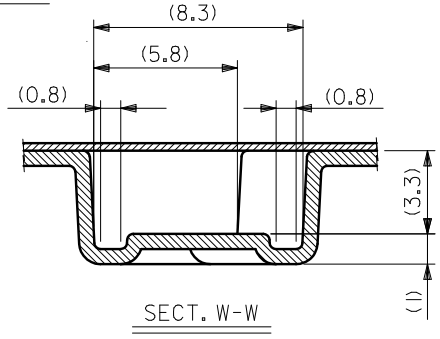


4. カバーテープの剥離強度については、IEC60286-3に準拠
COVER TAPE PEEL FORCE IS DEFINED
BY IEC60286-3
5. 材料 (MATERIAL)
キャリアテープ (CARRIER TAPE) : ポリプロピレン (POLYPROPYLENE)
トップテープ (TOPTAPE) : PET, PE, PEF
リール (REEL) : ポリスチレン (PS) <リサイクル材を含む>
POLYSTYREN (PS) <RECYCLE MATERIAL CONTAINED>
6. 本製品は乾燥剤入り、ハイバリア梱包仕様である。
THIS PRODUCT IS HIGH BARRIER PACKAGE
WITH DESICCANT.



SECT. V-V





SECT. W-W

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 2010/06/08
DRWN:YUHASEGAWA 2010/06/08
CH'KD:K.TOYODA 2010/06/09
APPR:KMORIKAWA
DESCRIPTION
G
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
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: M.UMEDA DATE: 2005/03/08
CHECKED BY: K.TOYODA DATE: 2005/03/08
APPROVED BY: N.UKITA DATE: 2005/03/08
MATERIAL NO.: SEE TABLE

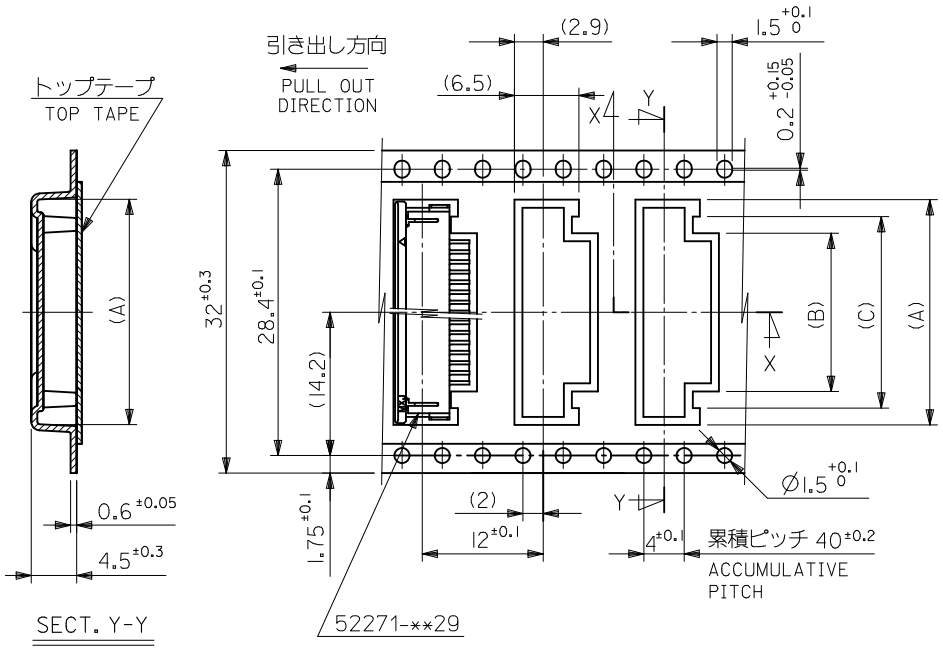
MODEL NO.: 52271-**69

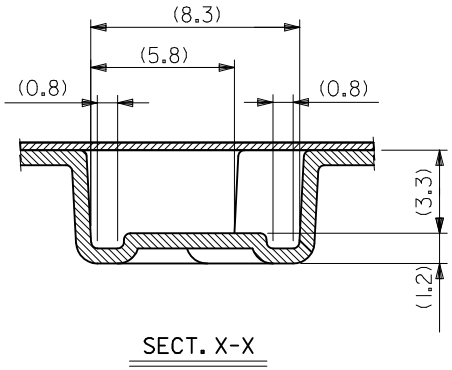
TITLE: EMBOSSED TAPE PACKAGE FOR 52271-**29 -LEAD FREE-

MOLEX INCORPORATED

DOCUMENT NO.: SD-52271-039
SHEET NO.: 1 OF 4

SIZE A3





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 2010/06/08
DRWN:YUHASEGAWA 2010/06/08
CH'KD:K.TOYODA 2010/06/09
APPR:KMORIKAWA
DESCRIPTION
G
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
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

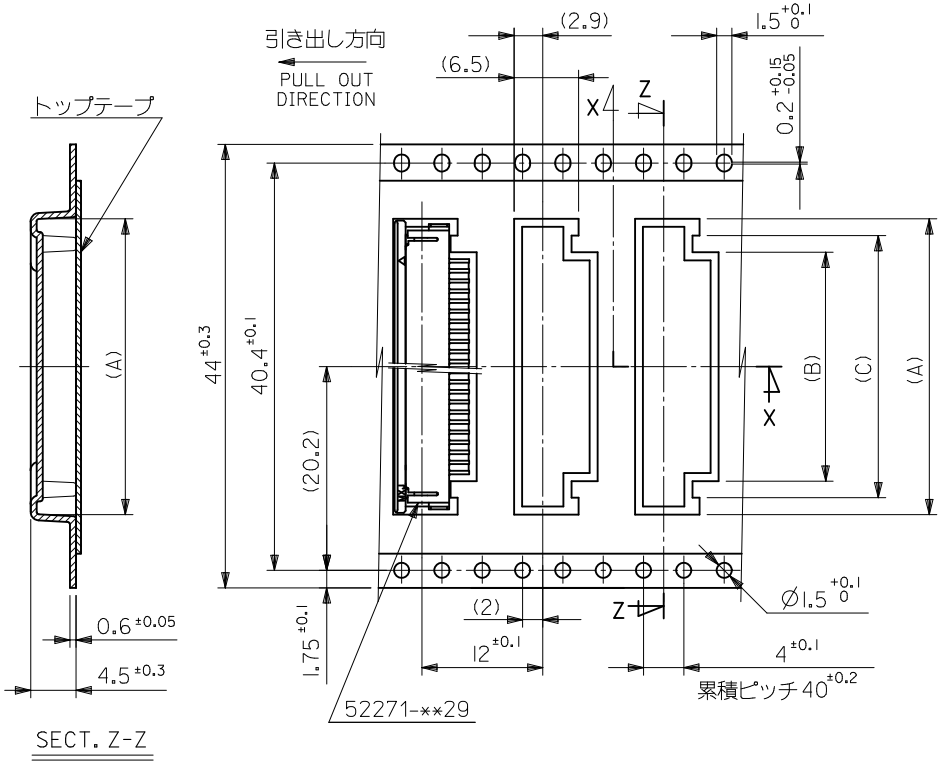
DRAWN BY: M.UMEDA DATE: 2005/03/08
CHECKED BY: K.TOYODA DATE: 2005/03/08
APPROVED BY: N.UKITA DATE: 2005/03/08

TITLE: EMBOSSED TAPE PACKAGE FOR 52271-**29 -LEAD FREE-

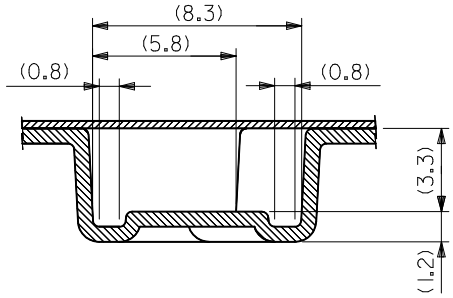
molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-52271-039
SHEET NO.: 2 OF 4

SIZE A3



SECT. Z-Z



SECT. X-X

キャリアテープ幅	F	D	(C)	(B)	(A)	MATERIAL NO.	極数
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

REVISED
EC NO: J2010-2474 2010/06/08
DRWN:YUHASEGAWA 2010/06/08
CH'KD:K.TOYODA 2010/06/09
APPR:KMORIKAWA
DESCRIPTION
G
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
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

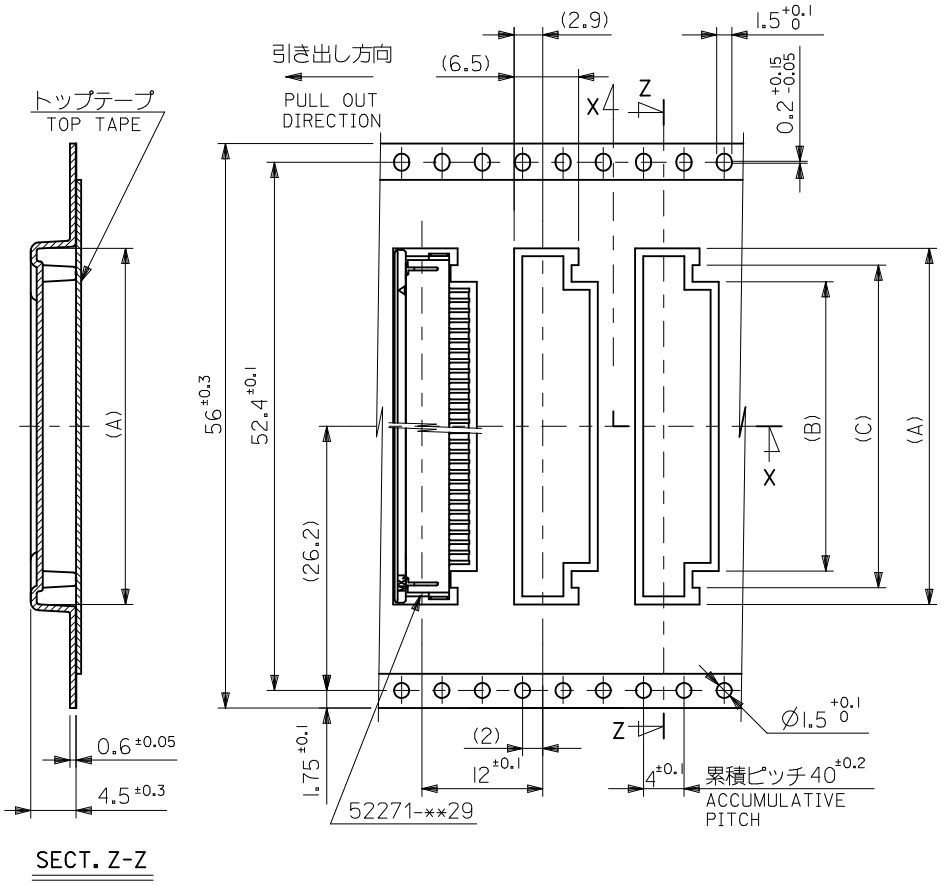
DRAWN BY: M.UMEDA DATE: 2005/03/08
CHECKED BY: K.TOYODA DATE: 2005/03/08
APPROVED BY: N.UKITA DATE: 2005/03/08

TITLE: EMBOSSED TAPE PACKAGE FOR 52271-**29 -LEAD FREE-

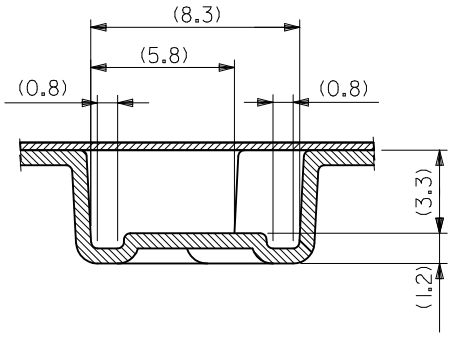
molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-52271-039
SHEET NO.: 3 OF 4

SIZE A3



SECT. Z-Z



SECT. X-X

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	F	D	(C)	(B)	(A)	MATERIAL NO.	極数 CKT.

REVISED
EC NO: J2010-2474 2010/06/08
DRWN:YUHASEGAWA 2010/06/08
CH'KD:K.TOYODA 2010/06/09
APPR:KMORIKAWA
DESCRIPTION
REV G

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: M.UMEDA DATE: 2005/03/08
CHECKED BY: K.TOYODA DATE: 2005/03/08
APPROVED BY: N.UKITA DATE: 2005/03/08

TITLE: EMBOSSED TAPE PACKAGE FOR 52271-**29 -LEAD FREE-

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-52271-039
SHEET NO.: 4 OF 4
SIZE: A3