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Part Number:

0522712779

Status:

Active

Overview:

Description:

1.00mm (.039") Pitch FFC/FPC Connector, Right Angle, SMT, ZIF, Bottom Contact Style, 27 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)	27
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](#)

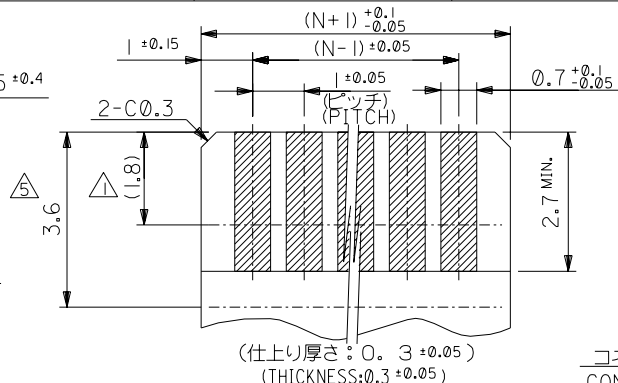
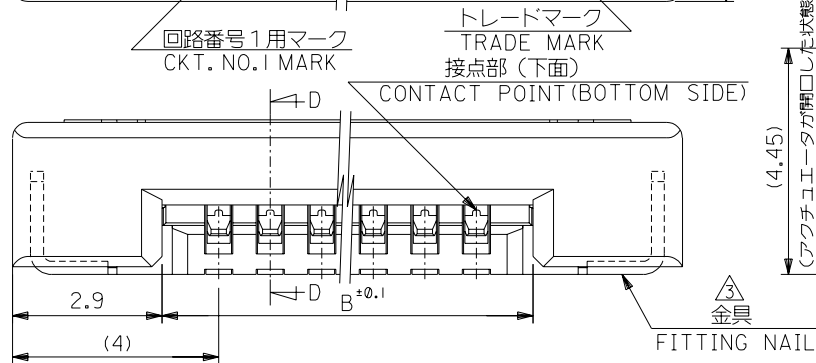
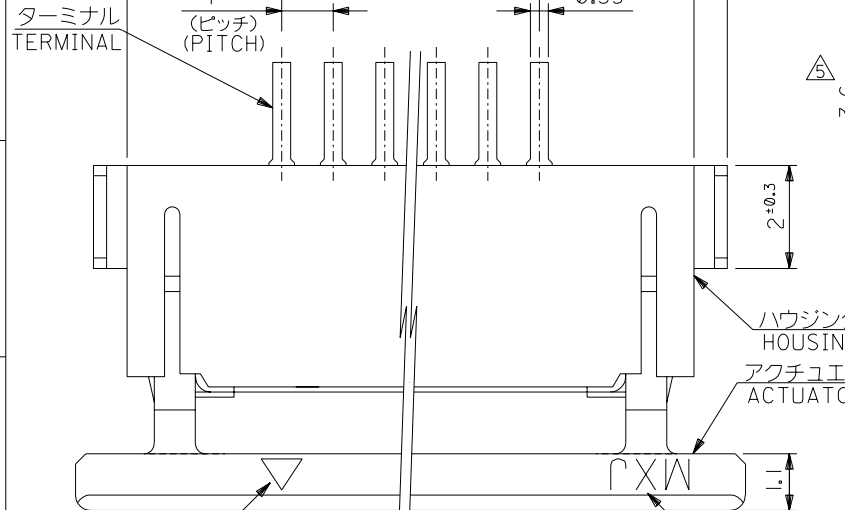
Please visit the [Contact Us](#) section for any non-product compliance questions.

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

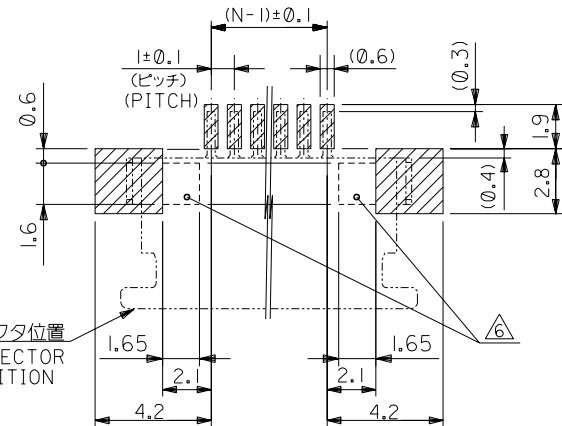
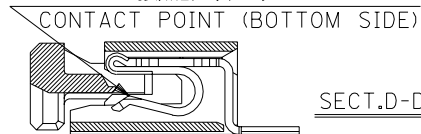
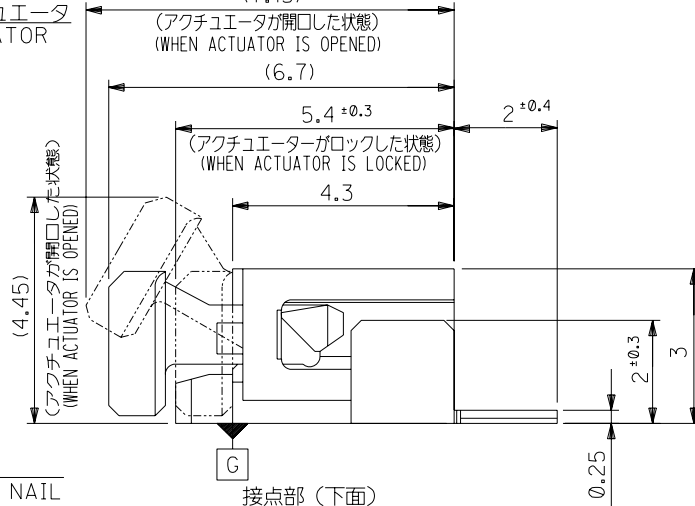
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ターミナル
TERMINAL



適合FPC推奨寸法
RECOMMENDED APPLICABLE
FPC LAYOUT
(7.15)



35	31.2	29	52271-3019	30
34	30.2	28	-2919	29
33	29.2	27	-2819	28
32	28.2	26	-2719	27
31	27.2	25	-2619	26
30	26.2	24	-2519	25
29	25.2	23	-2419	24
28	24.2	22	-2319	23
27	23.2	21	-2219	22
26	22.2	20	-2119	21
25	21.2	19	-2019	20
24	20.2	18	-1919	19
23	19.2	17	-1819	18
22	18.2	16	-1719	17
21	17.2	15	-1619	16
20	16.2	14	-1519	15
19	15.2	13	-1419	14
18	14.2	12	-1319	13
17	13.2	11	-1219	12
16	12.2	10	-1119	11
15	11.2	9	-1019	10
14	10.2	8	-0919	9
13	9.2	7	-0819	8
12	8.2	6	-0719	7
11	7.2	5	-0619	6
10	6.2	4	-0519	5
9	5.2	3	52271-0419	4

52271-**-19	C	B	A	52271-0419	極数 CKT.
MODEL NO.				MATERIAL NO.	

						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	
角度 ANGLE		+3°				適用電線範囲 WIRE RANGE		— / —		TITLE 名称 1.0 FPC CONN. Z.I.F. SMT (BOTTOM CONTACT)	
30 以上 OVER		+0.3		B 変更 REVISED (J2004-3551)		H.K. 04/04/08		被覆外径 INS. RANGE		— / —	
10 以上 30 未満 OVER UNDER		+0.25		A 変更 REVISED (J2004-3371)		H.K. K.T. 04/03/25		DRAWN BY 04/03/12 H.KAWABATA		CHK'D BY 04/03/12 K.TOJO	
10 未満 UNDER		+0.2		O 新規作成 RELEASED (J2004-3059)		H.K. 04/03/12		APP'D BY 04/03/12 M.SASAO		尺度 SCALE — / —	
一般公差 GENERAL TOLERANCES		記号 LTR 変更内容 REVISION RECORD		DR. CHK. 日付 DATE						DWG. NO. (SHEET 1 OF 2) REV SD-52271-036 B	

角度 ANGLE	±3°				
30 以上 OVER	±0.3	B	変更 REVISED	(J2004-3551)	H.K. K.S. 04/04/02
10 以上 30 未満 OVER UNDER	±0.25	A	変更 REVISED	(J2004-3371)	H.K. K.S. 04/03/29
10 未満 UNDER	±0.2	0	新規作成 RELEASED	(J2004-3059)	H.K. K.S. 04/03/12
一般公差 GENERAL TOLERANCES		記号 LTR	変更内容 REVISION RECORD	DR. 日付 CHK. DATE	

DWG. NO. SD-52271-036

E

D

±MM DIMENSIONS IN METRIC DO NOT SCALE DRAWING

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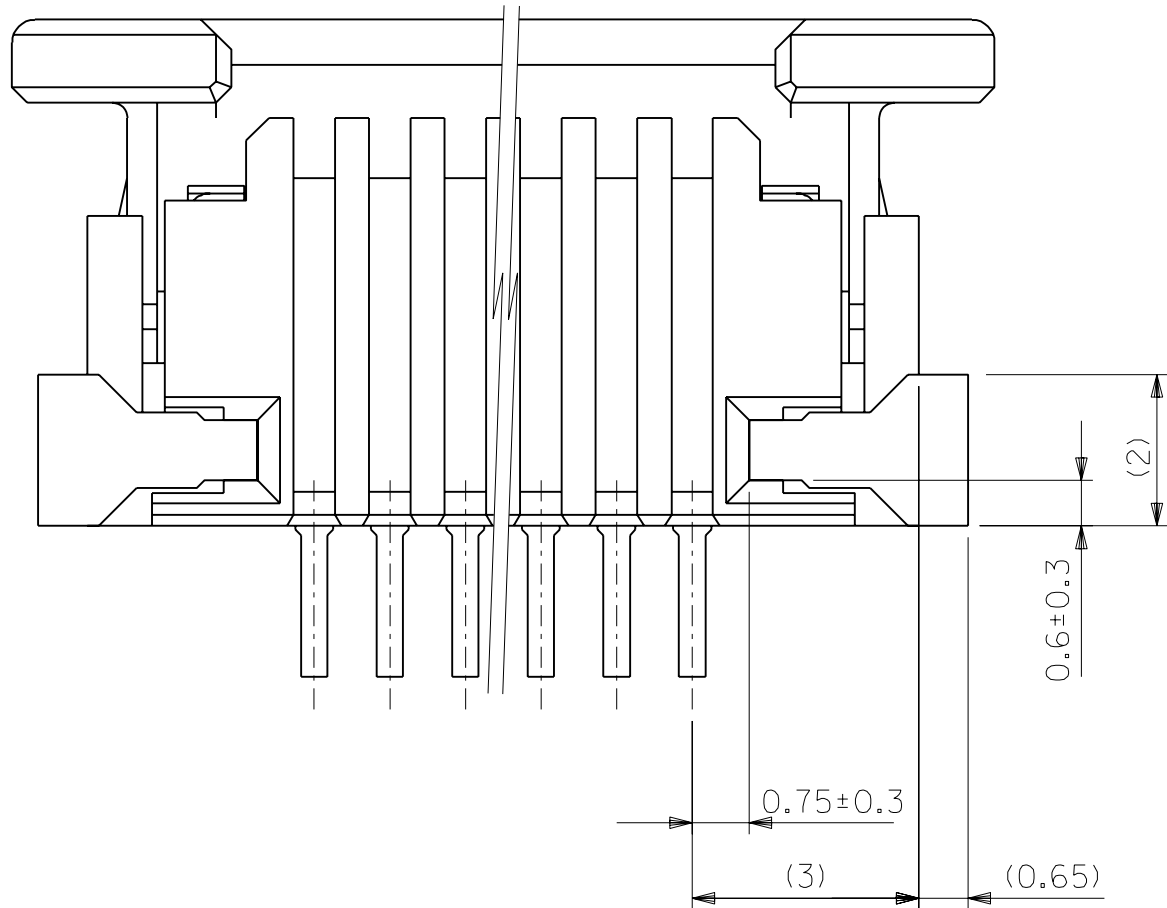
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下面図

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		MOLEX-JAPAN CO.,LTD. 日本モレックス株式会社	
		仕上げ FINISH		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°	
		30 以上 OVER		±0.3	
		10 以上 30 未満 OVER 30 UNDER		±0.25	
		10 未満 UNDER		±0.2	
		一般公差 GENERAL TOLERANCES		記号 LTR 変更内容 REVISION RECORD	
		DR. 日付 DATE		CHK. 尺度 SCALE	

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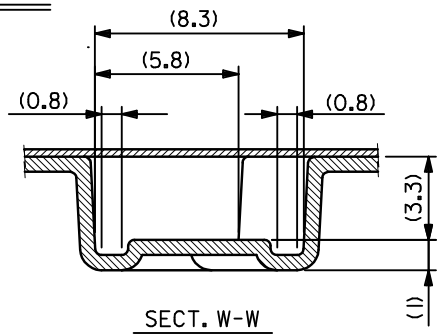
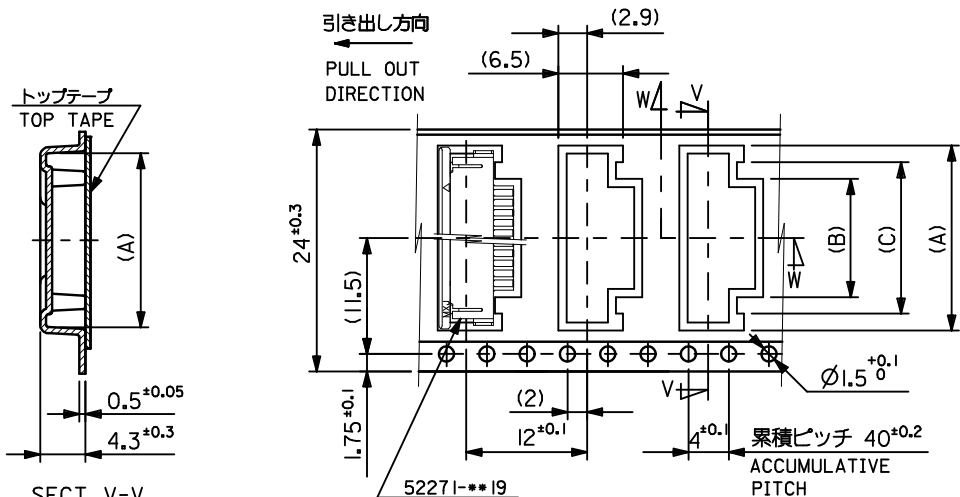
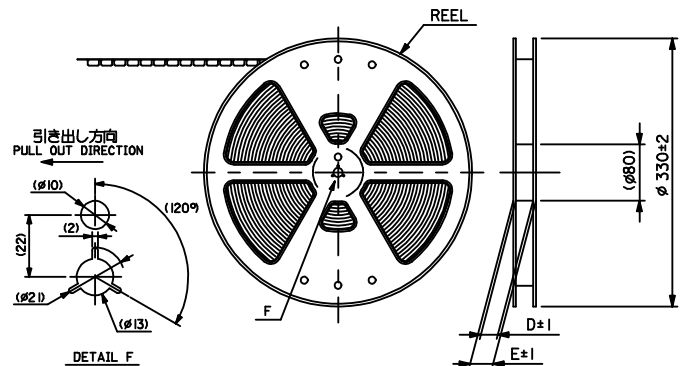
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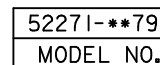
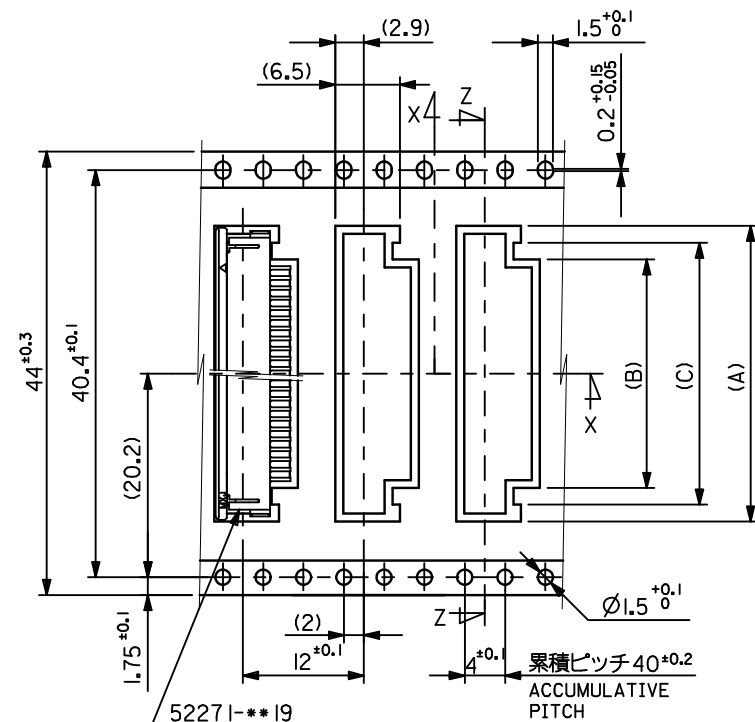
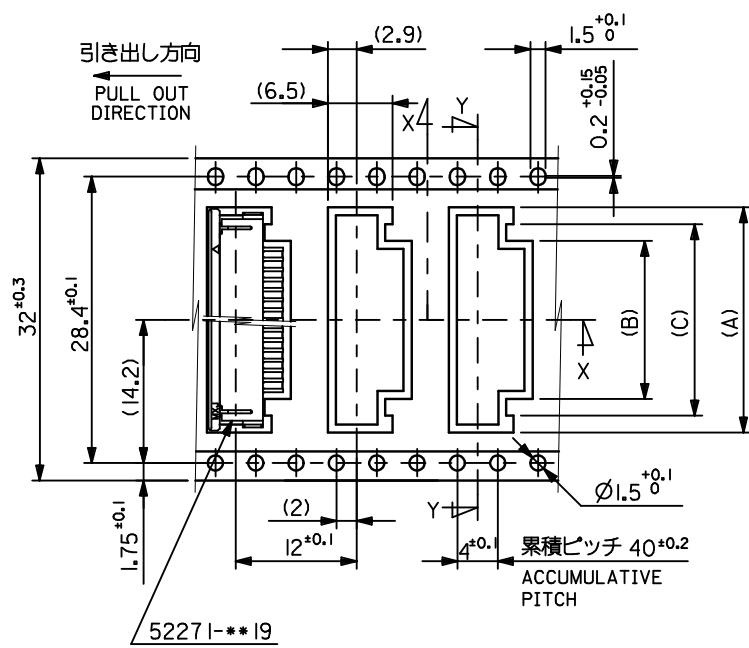
NOTES

- 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。
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.
- 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
- 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>
- 本製品は52271-**-19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.



52271-**-19	MODEL NO.	CARRIER TAPE WIDTH	E	D	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		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
EC NO: J2009-2061		10 UNDER		MM ONLY		---		METRIC		◎ □	
DRWN:TKN		10 OVER 30 UNDER		DRAWN BY		DATE		TITLE		EMBOSSED TAPE PACKAGE	
CHKD:HMATSUMOTO		30 OVER		CHECKED BY		DATE		MOLEX INCORPORATED		FOR 52271-**-19	
APPR:NUKITA		ANGULAR		APPROVED BY		DATE		SD-52271-037		-LEAD FREE-	
REV		DRAFT WHERE APPLICABLE		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		1 OF 3	
A		MUST REMAIN WITHIN DIMENSIONS		SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



REV	DESCRIPTION
2009/05/21	APPR: NUKITA
2009/05/21	CHKD: HMATSUMOTO
2009/05/20	DRWN: TKON
EC NO: J2009-2061	
REVISED	

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	THIS DRAWING CONTAINS INCORPORATED AND
A3	

SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
TITLE EMBOSSED TAPE PACKAGE FOR 52271-**-19 -LEAD FREE-		
 MOLEX INCORPORATED		
DOCUMENT NO. SD-52271-037		SHEET NO. 2 OF 3
THIS INFORMATION THAT IS PROPRIETARY TO MOLEX SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

