This document was generated on 06/05/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0527461971
Status: Active
Overview:
Description: 0.50mm (.020") Pitch FFC/FPC Connector, Right Angle, SMT, ZIF, Bottom Contact Style, 19 Circuits, Lead-free, Gold Contact Plating, High Barrier Packaging

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	FFC/FPC Connectors
Series	52746
Overview	ffc_fpc_smt
Product Name	N/A

Physical

Circuits (Loaded)	19
Contact Position	Bottom
Durability (mating cycles max)	20
Entry Angle	90° Angle
Flammability	94V-0
Mated Height (in)	0.079 In
Mated Height (mm)	2.00 mm
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Gold
Number of Rows	1
Orientation	Right Angle
PCB Locator	No
PCB Retention	Yes
Packaging Type	Embossed Tape on Reel
Pitch - Mating Interface (in)	0.020 In
Pitch - Mating Interface (mm)	0.50 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

Material Info

Reference - Drawing Numbers

Packaging Specification	SPK-52746-001, SPK-52746-002
Product Specification	PS-52746-015, RPS-52746-017, RPS-52746-050, RPS-52746-051, RPS-52746-053, RPS-52746-054, RPS-52746-056, RPS-52746-057, RPS-52746-060, RPS-52746-062
Sales Drawing	SD-52746-024, SD-52746-025

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Not Reviewed
Halogen-Free Status
Not Reviewed

China RoHS

Need more information on product environmental compliance?

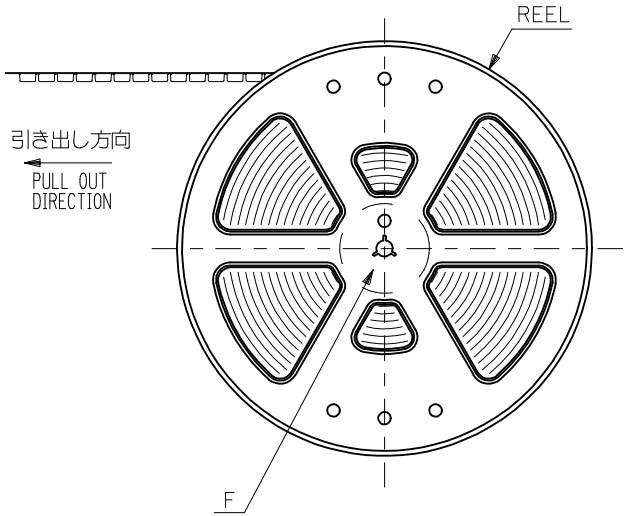
Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, click here

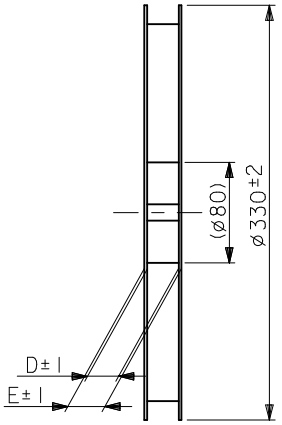
Please visit the Contact Us section for any non-product compliance questions.

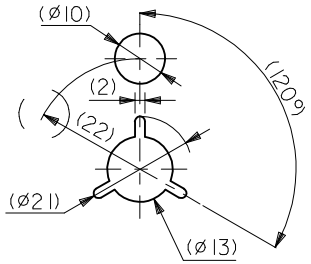
Search Parts in this Series
52746Series

This document was generated on 06/05/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION







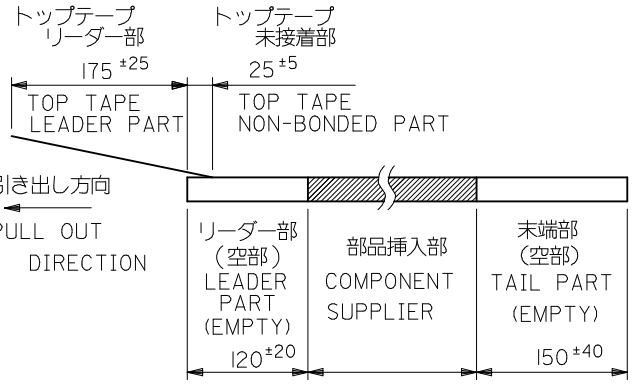
DETAIL F

注記 NOTES

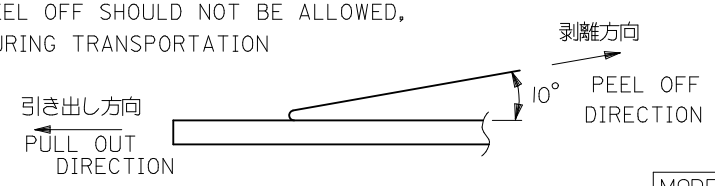
1. 製品番号 52746-**39 の梱包状態はアクチュエータがロックした状態とする。
詳細寸法については図面 SD-52746-025 を参照下さい。
IN THE PACKAGE,ACTUATOR OF PART NO.52746-**39 SHOULD BE LOCKED
RE DETAILED DIMENSIONS,SEE SD-52746-025

2. 梱包数量：１０００個／リール
NUMBER OF CONNECTORS:1000PCS/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：（剥離方向は下図参照）
０．１Ｎ～１．３Ｎ{１０ｇｆ～１３０ｇｆ}　　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
0.1N～1.3N{10gf～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　　キャリアテープ：ポリプロピレン（ＰＰ）
トップテープ：ＰＥＴ，ＰＥ，ＰＥＦ
リール：ポリスチレン（ＰＳ）<リサイクル材を含む>

MATERIAL CARRIER TAPE:POLYPROPYLENE
TOP TAPE:PET,PE,PEF
REEL:POLYSTYRENE(PS)
<RECYCLE MATERIAL CONTAINED>

6. 本製品は 52746-**81 の鉛フリー品です
THIS PRODUCT IS LEAD FREE OF 52746-**81

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.

MODEL No.52746-**71

REVISED	EC NO: J2009-2061	2009/05/20
	DRWN:TKON	2009/05/21
	CHKD:HMATSUMOTO	2009/05/21
	APPR:NUKITA	
REV: H	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: ---	DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION		
DRAWN BY: HSHIMABUKURO	DATE: '04/01/30	
CHECKED BY: KTOJO	DATE: '04/01/30	
APPROVED BY: MSASAO	DATE: '04/01/30	
MATERIAL NO.: SEE SHEET 2,3		

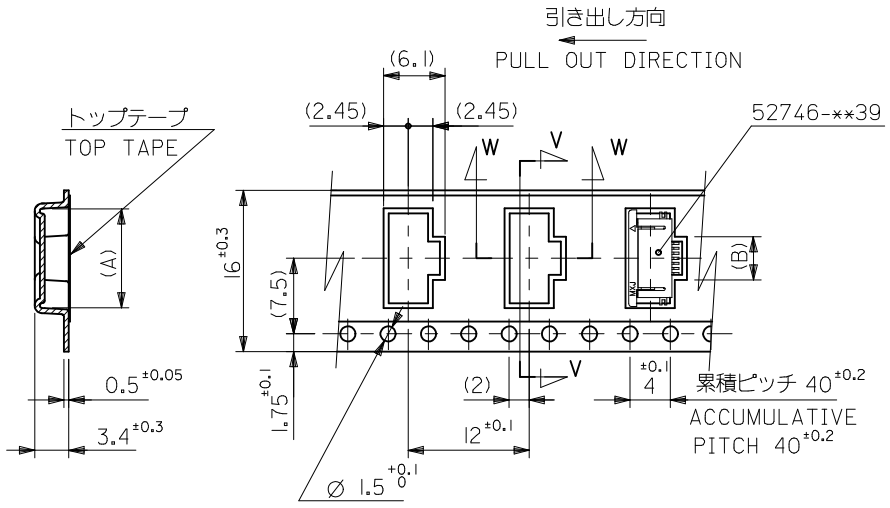
TITLE: 0.5 FPC CONN ZIF SMT RA B/CONT EMBSTP PKG -LEAD FREE-

MOLEX INCORPORATED

DOCUMENT NO.: SD-52746-024　　SHEET NO.: 1 OF 3

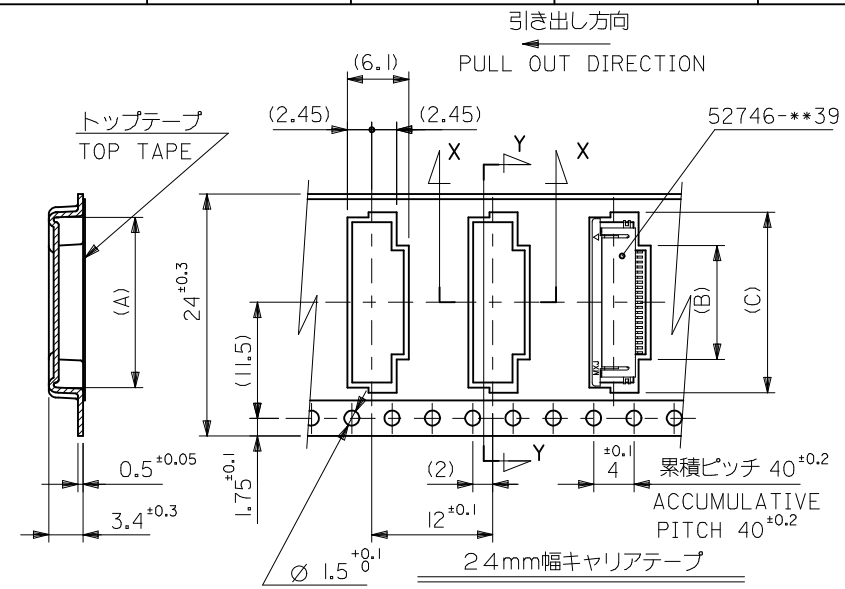
SIZE A3

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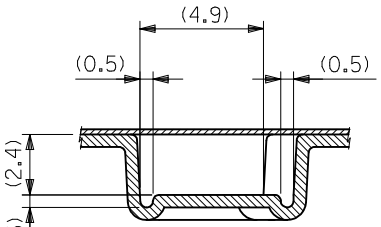
SECT.V-V

16mm幅キャリアテープ
16mm WIDTH CARRIER TAPE

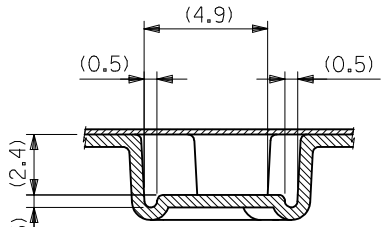


SECT.Y-Y

24mm幅キャリアテープ
24mm WIDTH CARRIER TAPE



SECT. W-W



SECT.X-X

キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(C)	(B)	(A)	MATERIAL NO.	極数 CIRCUITS
24	29.4	25.4	24.4	11.8	17.4	52746-2271	22
			17.9	11.3	16.9	52746-2171	21
			17.4	10.8	16.4	52746-2071	20
			16.9	10.3	15.9	52746-1971	19
			16.4	9.8	15.4	52746-1871	18
			15.9	9.3	14.9	52746-1771	17
			15.4	8.8	14.4	52746-1671	16
			14.9	8.3	13.9	52746-1571	15
			14.4	7.8	13.4	52746-1471	14
			13.9	7.3	12.9	52746-1371	13
			13.4	6.8	12.4	52746-1271	12
			12.9	6.3	11.9	52746-1171	11
			12.4	5.8	11.4	52746-1071	10
			11.9	5.3	10.9	52746-0971	9
			11.4	4.8	10.4	52746-0871	8
			10.9	4.3	9.9	52746-0771	7
			10.4	3.8	9.4	52746-0671	6
16	21.4	17.4	9.4	2.8	8.4	52746-0471	4

MODEL No.52746-**71

REVISED
EC NO: J2009-2061 2009/05/20
DRWN:TKON 2009/05/21
CH'KD:HMATSUMOTO
APPR:NUKITA
DESCRIPTION
H
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: HSHIMABUKURO DATE: '04/01/30
CHECKED BY: KTOJO DATE: '04/01/30
APPROVED BY: MSASAO DATE: '04/01/30
MATERIAL NO.: SEE TABLE

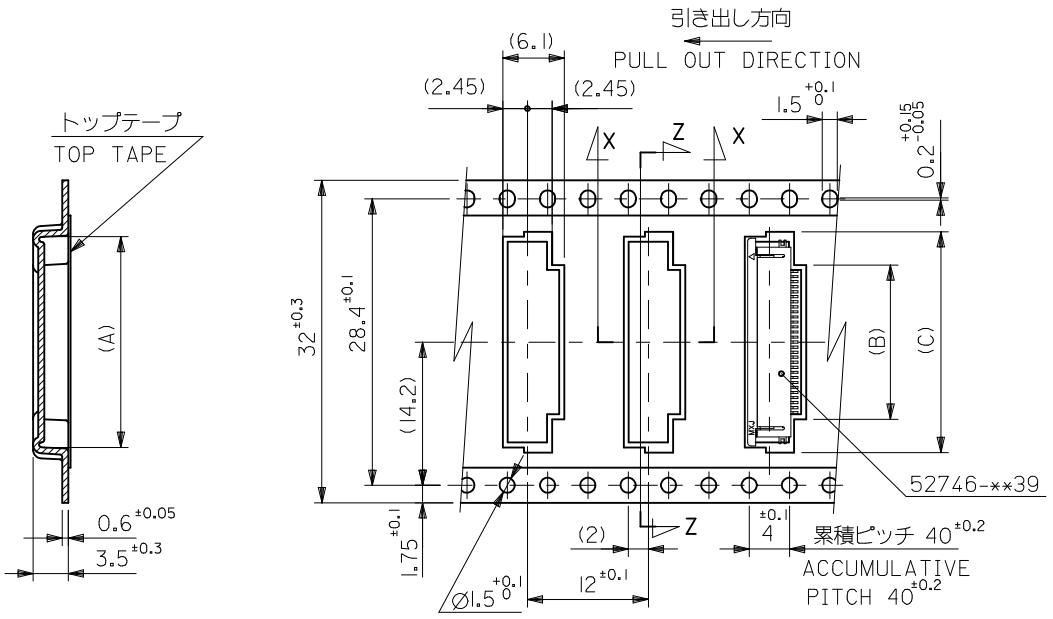
TITLE
0.5 FPC CONN ZIF SMT RA
B/CONT EMBSTP PKG
-LEAD FREE-

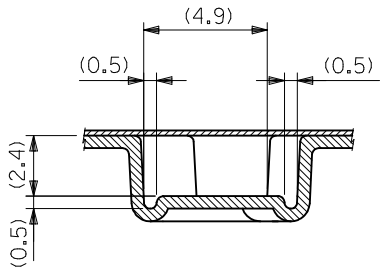
MOLEX INCORPORATED

DOCUMENT NO.: SD-52746-024
SHEET NO.: 2 OF 3

SIZE A3

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32mm幅キャリアテープ
32mm WIDTH CARRIER TAPE

キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(C)	(B)	(A)	MATERIAL NO.	極数 CIRCUIT
32	37.4	33.4	22.4	15.8	21.4	52746-3071	30
			21.4	14.8	20.4	52746-2871	28
			20.9	14.3	19.9	52746-2771	27
			19.9	13.3	18.9	52746-2571	25
			19.4	12.8	18.4	52746-2471	24

MODEL No.52746-××71

REVISED
EC NO: J2009-2061 2009/05/20
DRWN:TKON 2009/05/21
CH'KD:HMATSUMOTO 2009/05/21
APPR:NUKITA 2009/05/21
DESCRIPTION
REV
H

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

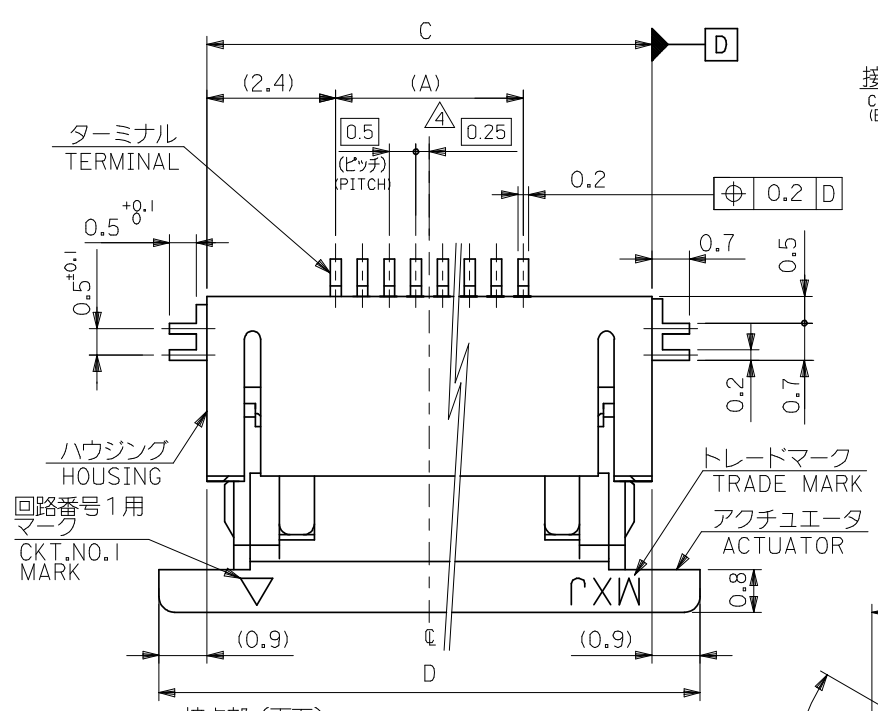
DRAWN BY	HSHIMABUKURO	DATE '04/01/30
CHECKED BY	KTOJO	DATE '04/01/30
APPROVED BY	MSASAO	DATE '04/01/30

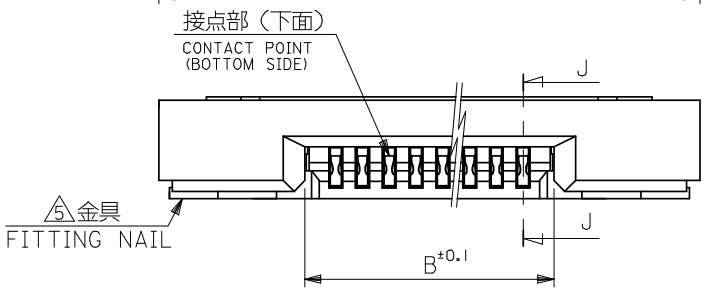
TITLE: 0.5 FPC CONN ZIF SMT RA B/CONT EMBSTP PKG -LEAD FREE-

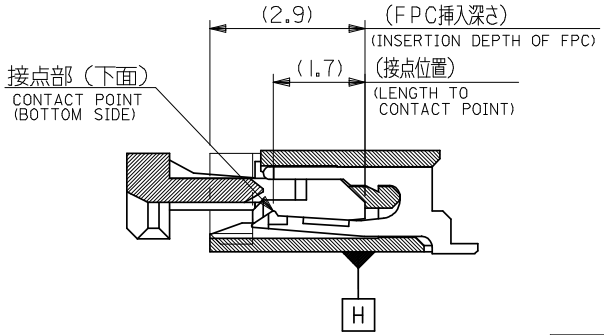
MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-52746-024
SHEET NO.: 3 OF 3
SIZE: A3

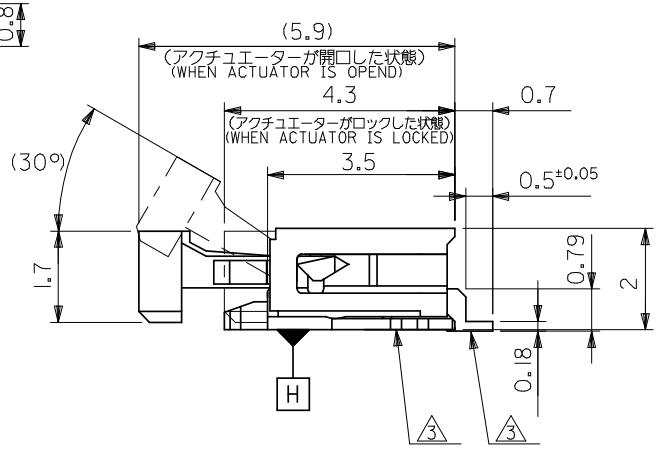
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SECT.J-J



注記 NOTES

1. 使用材料 MATERIAL
   - ハウジング HOUSING：46ナイロン、UL94V-0 46NYLON
   - アクチュエータ ACTUATOR：PPS、UL94V-0
   - ターミナル TERMINAL：リン青銅(t=0.2)、ニッケル下地 金メッキ PHOSHOR BRONZE, GOLD OVER NICKEL PLATING
   - 金具 FITTING NAIL：リン青銅(t=0.2)、ニッケル下地 錫メッキ PHOSHOR BRONZE, TIN OVER NICKEL PLATING
2. 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.52746-**39 SHOULD BE LOCKED.
3. ソルダーテール半田付け面のズレ量、及び金具半田付け面のズレ量は、基準面 H に対し上方向 0.1MAX.下方向 0.15MAX. とする。
   MISALIGNMENT OF SOLDER TAILS AND FITTING NAILS FROM H UPPER DIRECTION: 0.1 MAX. , LOWER DIRECTION: 0.15MAX.
4. 偶数極に適用。
   APPLY FOR EVEN CIRCUIT.
5. パターンはくり止め用金具
   FITTING NAIL FOR PREVENTION OF PEELING OF P.C.B. PATTERN.
6. 本製品は 52746-**38の鉛フリー品です。
   THIS PRODUCT IS LEAD FREE OF 52746-**38

D	C	B	(A)	EMBOSSED TAPE ORDER No. オーダー番号	MATERIAL NO.	極数 CIRCUITS
21.1	19.3	15.65	14.5	52746-3071	52746-3039	30
20.6	18.8	15.15	14.0	52746-2971	52746-2939	29
20.1	18.3	14.65	13.5	52746-2871	52746-2839	28
19.6	17.8	14.15	13.0	52746-2771	52746-2739	27
19.1	17.3	13.65	12.5	52746-2671	52746-2639	26
18.6	16.8	13.15	12.0	52746-2571	52746-2539	25
18.1	16.3	12.65	11.5	52746-2471	52746-2439	24
17.6	15.8	12.15	11.0	52746-2371	52746-2339	23
17.1	15.3	11.65	10.5	52746-2271	52746-2239	22
16.6	14.8	11.15	10.0	52746-2171	52746-2139	21
16.1	14.3	10.65	9.5	52746-2071	52746-2039	20
15.6	13.8	10.15	9.0	52746-1971	52746-1939	19
15.1	13.3	9.65	8.5	52746-1871	52746-1839	18
14.6	12.8	9.15	8.0	52746-1771	52746-1739	17
14.1	12.3	8.65	7.5	52746-1671	52746-1639	16
13.6	11.8	8.15	7.0	52746-1571	52746-1539	15
13.1	11.3	7.65	6.5	52746-1471	52746-1439	14
12.6	10.8	7.15	6.0	52746-1371	52746-1339	13
12.1	10.3	6.65	5.5	52746-1271	52746-1239	12
11.6	9.8	6.15	5.0	52746-1171	52746-1139	11
11.1	9.3	5.65	4.5	52746-1071	52746-1039	10
10.6	8.8	5.15	4.0	52746-0971	52746-0939	9
10.1	8.3	4.65	3.5	52746-0871	52746-0839	8
9.6	7.8	4.15	3.0	52746-0771	52746-0739	7
9.1	7.3	3.65	2.5	52746-0671	52746-0639	6
8.1	6.3	2.65	1.5	52746-0471	52746-0439	4

52746-**39 MODEL NO.

REVISED
EC NO: J2008-4308 2008/06/27
DRWN:MNABEI 2008/06/30
CH'KD:THARUYAMA 2008/06/30
APPR:NUKITA 2008/06/30
DESCRIPTION
REV H

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

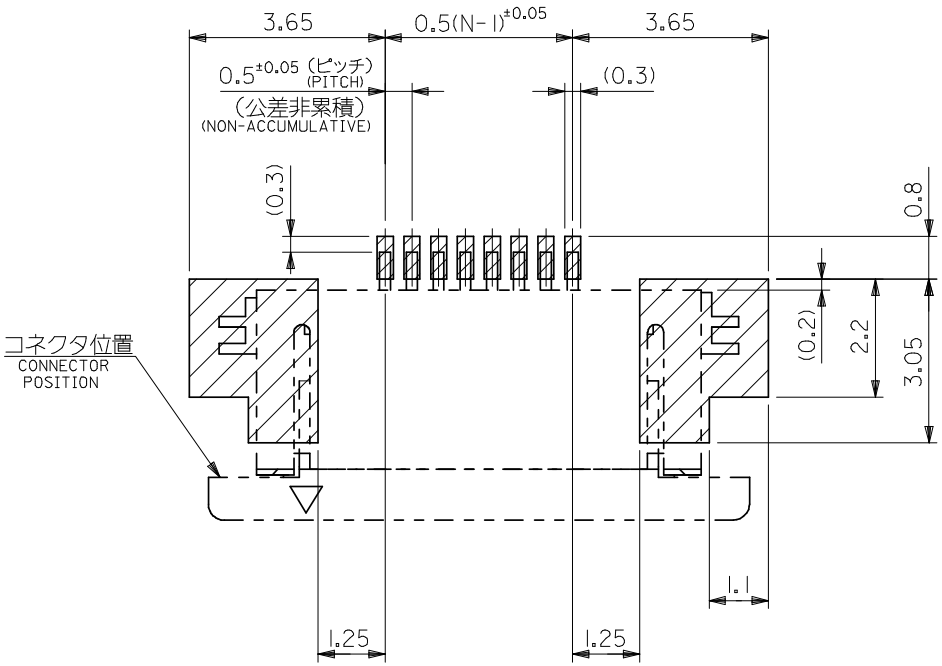
DRAWN BY: HSHIMABUKURO DATE: '04/01/30
CHECKED BY: KTOJO DATE: '04/01/30
APPROVED BY: MSASAO DATE: '04/01/30

TITLE: 0.5 FPC CONN ZIF FOR SMT R/A (BOTTOM CONTACT) -LEAD FREE-

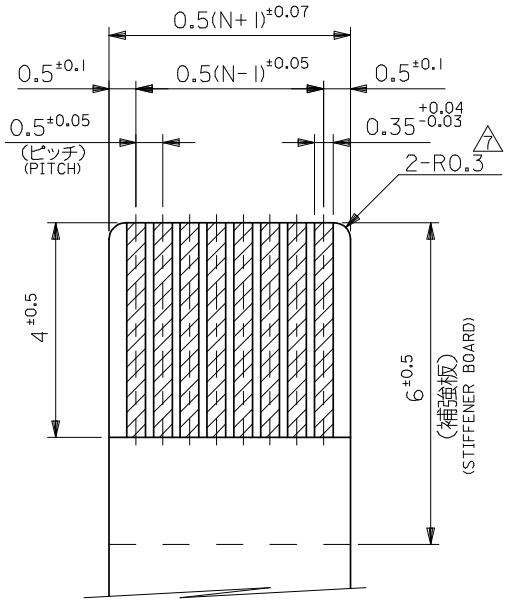
molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-52746-025
SHEET NO.: 1 OF 2
SIZE: A3

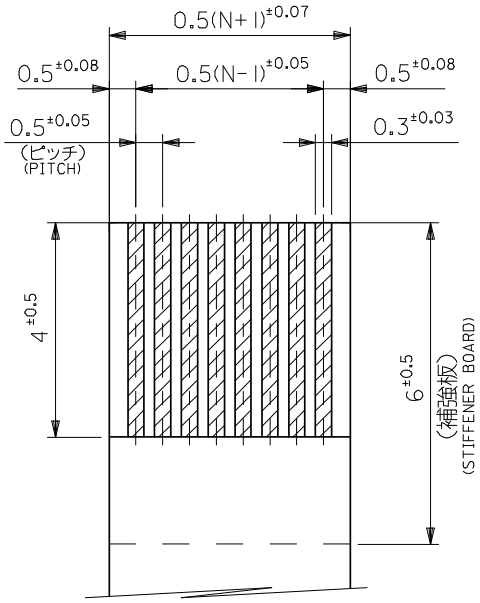
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参考基板レイアウト
RECOMMENDED P.C.BOARD PATTERN DIMENSION (REF.)
(マウント面)
(MOUNTING SIDE)



適合ＦＰＣ推奨寸法
APPLICABLE FPC RECOMMENDED DIMENSION
(仕上がり厚さ：$0.3^{\pm 0.03}$)
(THICKNESS:$0.3^{\pm 0.03}$)



適合ＦＦＣ推奨寸法
APPLICABLE FFC RECOMMENDED DIMENSION
(仕上がり厚さ：$0.3^{\pm 0.03}$)
(THICKNESS:$0.3^{\pm 0.03}$)

ＦＰＣについて：
打抜き方向は導体側から補強板を推奨致します。
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

注記 NOTES

⚠7 R0．3は、ＦＰＣの導体部にかからないこと。
R0.3 MUST NOT BE OVERLAPPED TO PATTERN OF FPC.

REVISED				
EC NO: J2008-4308	DRWN:MNABEI	CH'KD:THARUYAMA	APPR:NUKITA	
2008/06/27	2008/06/30	2008/06/30	2008/06/30	
REV: H	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	---
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY	HSHIMABUKURO
DATE	'04/01/30
CHECKED BY	KTOJO
DATE	'04/01/30
APPROVED BY	MSASAO
DATE	'04/01/30
MATERIAL NO.	SEE TABLE
TITLE	0.5 FPC CONN ZIF FOR SMT R/A (BOTTOM CONTACT) -LEAD FREE-
	MOLEX INCORPORATED
DOCUMENT NO.	SD-52746-025
SHEET NO.	2 OF 2
SIZE	A3

52746-**39 MODEL NO.

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION