This document was generated on 06/05/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0527450497

Status: Active

Overview:

Description: 0.50mm (.020") Pitch FFC/FPC Connector, Right Angle, SMT, ZIF, Top Contact Style, 4 Circuits, Lead-free, Gold (Au) Contact Plating, High Barrier Packaging

Agency Certification

UL	E29179

General

Product Family	FFC/FPC Connectors
Series	52745
Overview	ffc_fpc_smt
Product Name	N/A

Physical

Circuits (Loaded)	4
Color - Resin	Black, White
Contact Position	Top
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

Application Specification	AS-52745-001
Packaging Specification	SPK-52745-001, SPK-52745-002
Product Specification	PS-52745-051, RPS-52745-056, RPS-52745-060, RPS-52745-061, RPS-52745-062, RPS-52745-063, RPS-52745-064, RPS-52745-065, RPS-52745-066, RPS-52745-068, RPS-52745-071, RPS-52745-072, RPS-52745-074, RPS-52745-075, RPS-52745-077
Sales Drawing	SD-52745-050, SD-52745-051

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

China RoHS

Need more information on product environmental compliance?

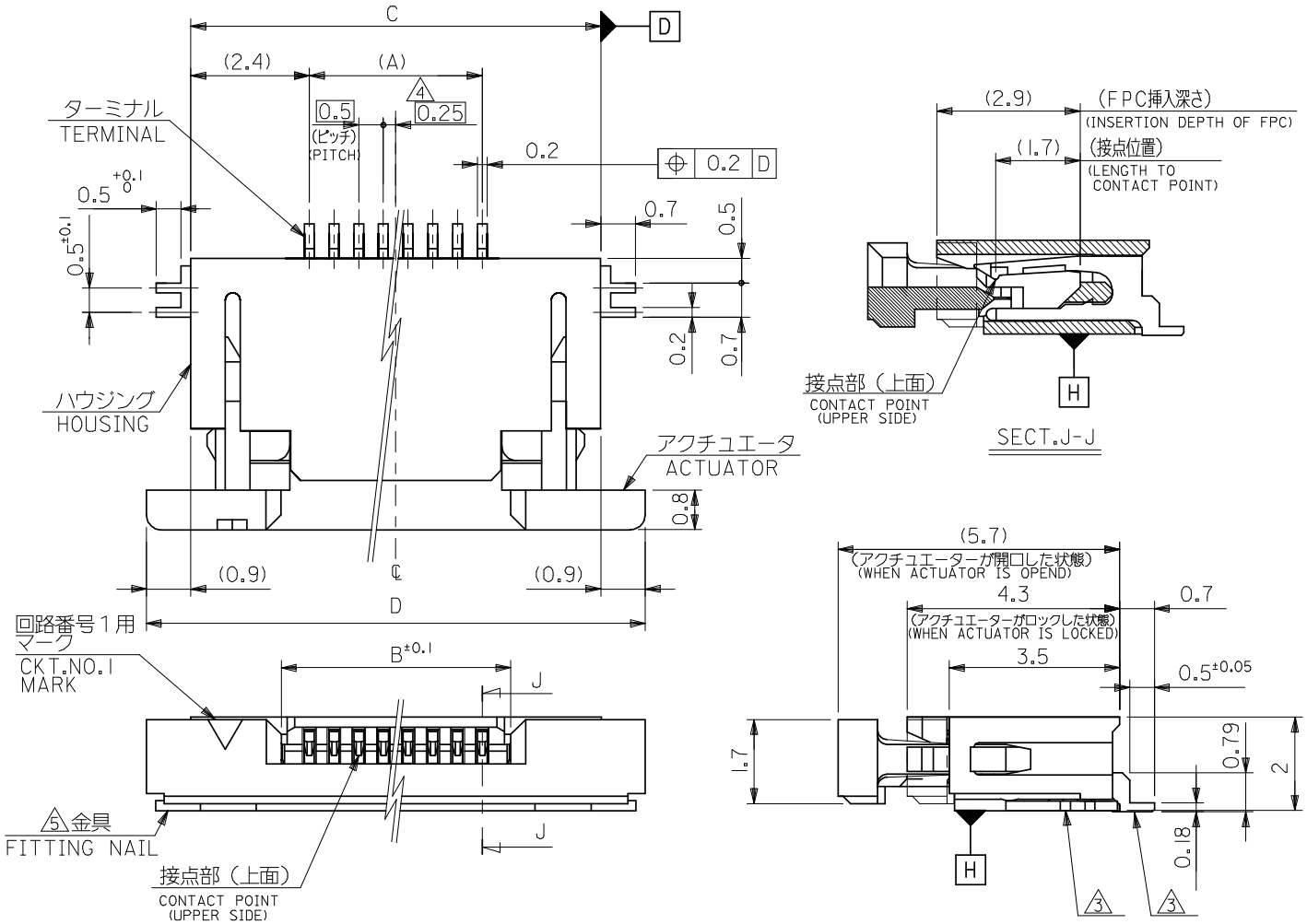
Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, click here

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

Search Parts in this Series
52745Series

This document was generated on 06/05/2010

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SECT.J-J

注記 NOTES

1. 使用材料 MATERIAL

ハウジング HOUSING	：ポリアミド46、ガラス充填、UL94V−0（白） POLYAMIDE46, GLASS FILLED, UL94V-0(WHITE)
アクチュエータ ACTUATOR	：ポリフェニレンサルファイド ガラス充填、UL94V−0（黒） POLYPHENYLENE SULFIDE ,GLASS FILLED, UL94V-0(BLACK)
ターミナル TERMINAL	：リン青銅（t＝0．2） PHOSPOR BRONZE

メッキ
コンタクト部：金メッキ 0.1マイクロメートル以上
テール部：金メッキ 0.05マイクロメートル以上
下地：ニッケル 1.0マイクロメートル以上
PLATED
CONTACT AREA : GOLD 0.1 MICROMETER MINIMUM
TAIL AREA : GOLD 0.05 MICROMETER MINIMUM
UNDER PLATING : NICKEL 1.0 MICROMETER MINIMUM

金具 FITTING NAIL	：リン青銅、ニッケル下地純錫メッキ（t＝0．2） PHOSPOR 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. 52745-**59 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 0．1 MAX．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 54745-**17 の部分金メッキ品である．
THIS PRODUCT IS SELECTIVE GOLD PLATING OF 52745-**17.

D	C	B	(A)	EMBOSSED TAPE ORDER No. オーダー番号	MATERIAL NO.	極数 CIRCUIT
16.1	14.3	10.65	9.5	52745-2097	52745-2059	20
15.6	13.8	10.15	9.0	-1997	-1959	19
15.1	13.3	9.65	8.5	-1897	-1859	18
14.6	12.8	9.15	8.0	-1797	-1759	17
14.1	12.3	8.65	7.5	-1697	-1659	16
13.6	11.8	8.15	7.0	-1597	-1559	15
13.1	11.3	7.65	6.5	-1497	-1459	14
12.6	10.8	7.15	6.0	-1397	-1359	13
12.1	10.3	6.65	5.5	-1297	-1259	12
11.6	9.8	6.15	5.0	-1197	-1159	11
11.1	9.3	5.65	4.5	-1097	-1059	10
10.6	8.8	5.15	4.0	-0997	-0959	9
10.1	8.3	4.65	3.5	-0897	-0859	8
9.6	7.8	4.15	3.0	-0797	-0759	7
9.1	7.3	3.65	2.5	-0697	-0659	6
8.1	6.3	2.65	1.5	52745-0497	52745-0459	4

52745-**59 MODEL NO.

REVISED
EC NO: J2008-4308 2008/06/27
DRWN:MNABEI 2008/06/30
CH'KD:THARUYAMA
APPR:NUKITA 2008/06/30
DESCRIPTION
B
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.NABEI DATE: '05/02/14
CHECKED BY: K.TOJO DATE: '05/02/14
APPROVED BY: N.UKITA DATE: '05/02/14

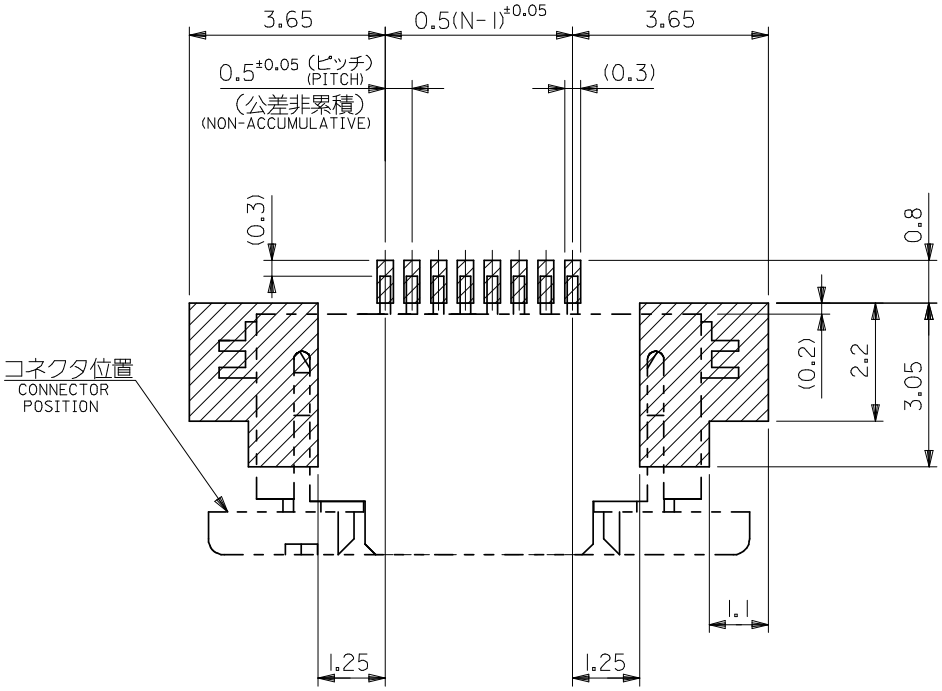
TITLE: 0.5 FPC CONN ASSY ZIF UPR CONT -LEAD FREE-

MOLEX INCORPORATED

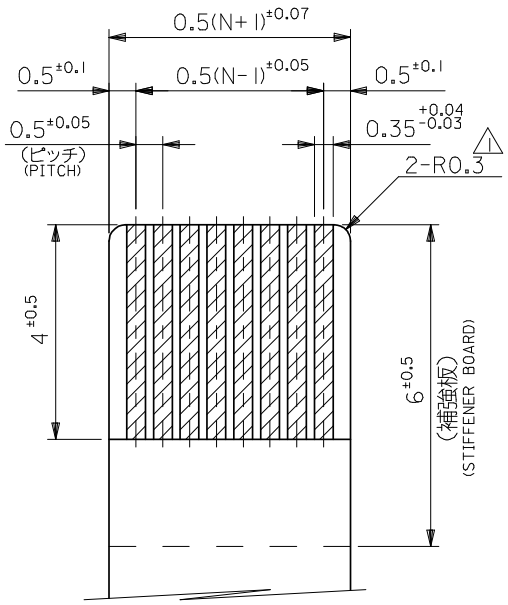
MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-52745-050
SHEET NO.: 1 OF 2

SIZE A3

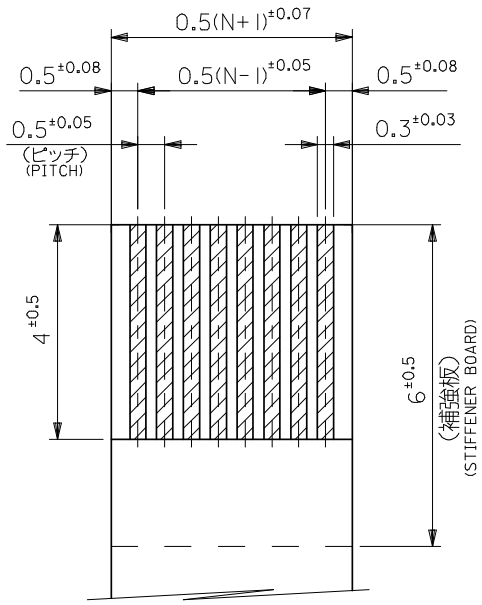
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参考基板レイアウト
P.C.BOARD PATTERN DIMENSION (REF.)
(マウント面)
(MOUNTING SIDE)



適合ＦＰＣ推奨寸法
APPLICABLE FPC RECOMMENDED DIMENSION
(仕上がり厚さ：0.3±0.03)
(THICKNESS:0.3±0.03)



適合ＦＦＣ推奨寸法
APPLICABLE FFC RECOMMENDED DIMENSION
(仕上がり厚さ：0.3±0.03)
(THICKNESS:0.3±0.03)

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

注記 NOTES

⚠ 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	2008/06/27		
DRWN:MNABEI	2008/06/30		
CH'KD:THARUYAMA	2008/06/30		
APPR:NUKITA			
DESCRIPTION			
REV	B		

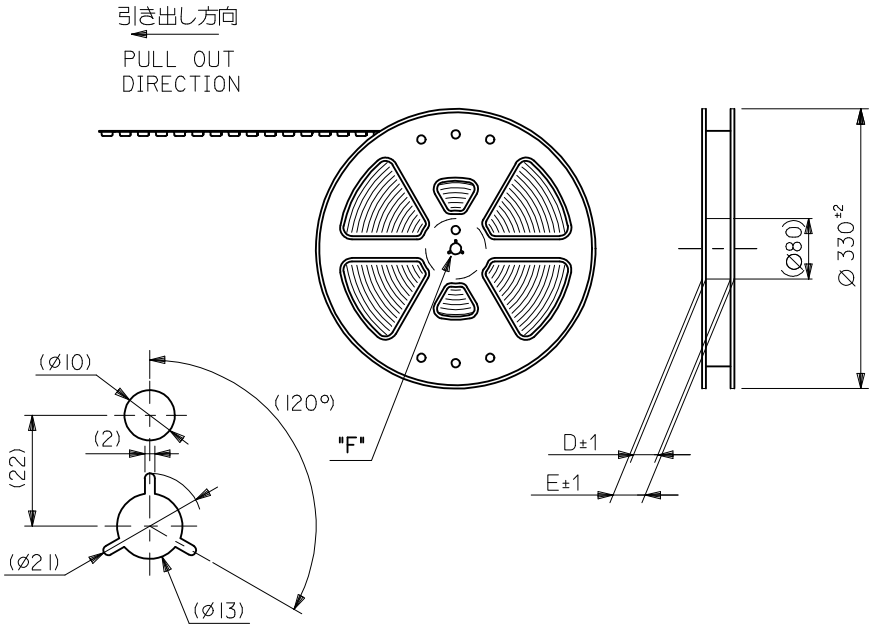
GENERAL TOLERANCES (UNLESS SPECIFIED)	
10 UNDER	±0.2
10 OVER 30 UNDER	±0.25
30 OVER	±0.3
ANGULAR ±3 °	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	MM ONLY
SCALE	---
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY	M.NABEI
DATE	'05/02/14
CHECKED BY	K.TOJO
DATE	'05/02/14
APPROVED BY	N.UKITA
DATE	'05/02/14
MATERIAL NO.	SEE SHEET 1
TITLE	0.5 FPC CONN ASSY ZIF UPR CONT -LEAD FREE-
	MOLEX INCORPORATED
DOCUMENT NO.	SD-52745-050
SHEET NO.	2 OF 2
SIZE	A3

52745-**59 MODEL NO.

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DETAIL "F"

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　５２７４５－＊＊９０　の鉛フリー品である。
THIS PRODUCT IS LEAD FREE OF 52745-**90

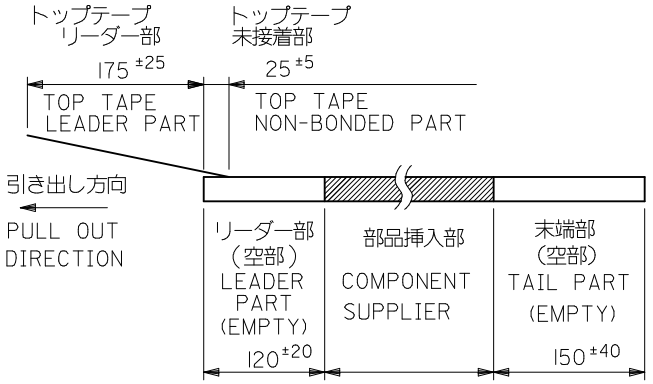
7. 本製品は乾燥剤入り、ハイバリア梱包仕様である．
THIS PRODUCT IS HIGH BARRIER PACKAGE WITH DESICCANT.

注記 NOTES

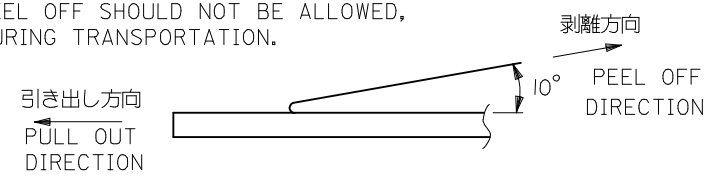
1. 製品番号 52745-**59 の梱包状態はアクチュエータがロックした状態とする。
詳細寸法については図面 SD-52745-050 を参照下さい。
IN THE PACKAGE,ACTUATOR OF PART NO.52745-**59 SHOULD BE LOCKED
RE DETAILED DIMENSIONS,SEE SD-52745-050.

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.



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

GENERAL TOLERANCES (UNLESS SPECIFIED)

10 UNDER	±---
10 OVER 30 UNDER	±---
30 OVER	±---
ANGULAR ±--- °	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY	SCALE: ---	DESIGN UNITS: METRIC	THIRD ANGLE PROJECTION

DRAWN BY: M.NABEI	DATE: '05/02/14
CHECKED BY: K.TOJO	DATE: '05/02/14
APPROVED BY: N.UKITA	DATE: '05/02/14
MATERIAL NO.: SEE TABLE	

52745-**97 | MODEL NO.

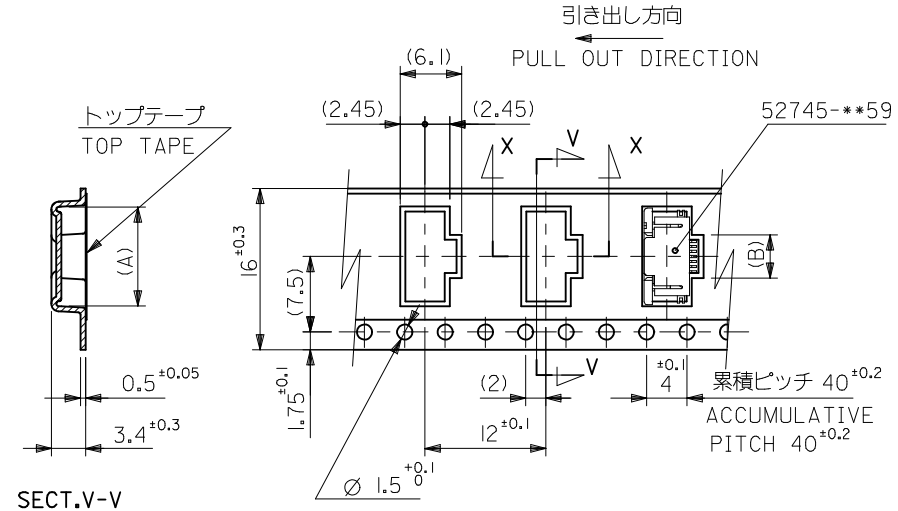
TITLE: 0.5 FPC CONN UPR CONT EMBSTP PKG -LEAD FREE-

molex MOLEX INCORPORATED

DOCUMENT NO.: SD-52745-051 | SHEET NO.: 1 OF 3

SIZE A3

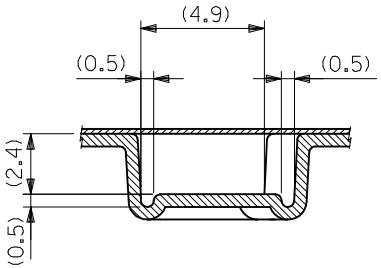
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SECT.V-V

16mm幅キャリアテープ

16mm WIDTH CARRIER TAPE



SECT.X-X

16	21.4	17.4	2.8	8.4	52745-0497	4
キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(B)	(A)	MATERIAL NO.	極数 CIRCUIT

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

GENERAL TOLERANCES (UNLESS SPECIFIED)

10 UNDER	±---
10 OVER 30 UNDER	±---
30 OVER	±---
ANGULAR ±--- °	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: M.NABEI DATE: '05/02/14
CHECKED BY: K.TOJO DATE: '05/02/14
APPROVED BY: N.UKITA DATE: '05/02/14

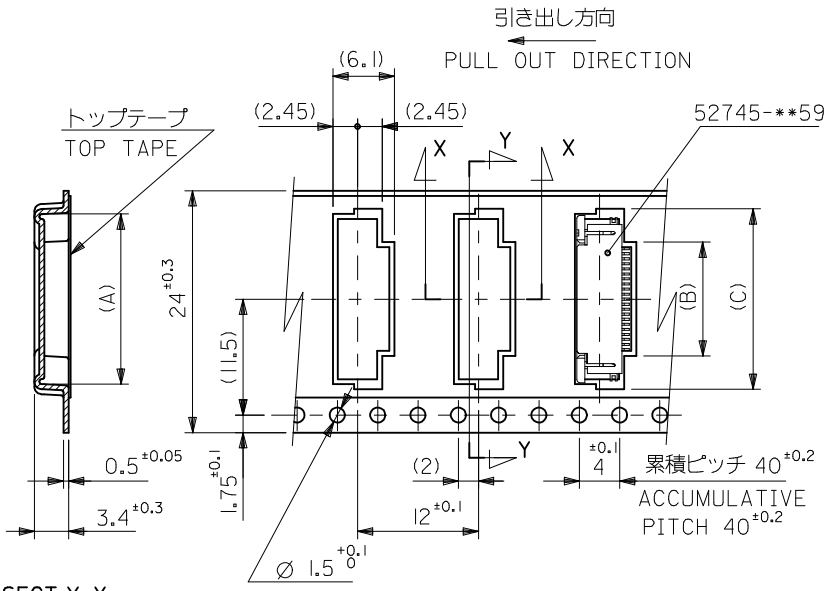
TITLE: 0.5 FPC CONN UPR CONT EMBSTP PKG -LEAD FREE-

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-52745-051
SHEET NO.: 2 OF 3

SIZE A3

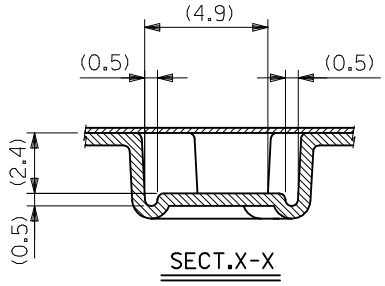
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SECT.Y-Y

24mm幅キャリアテープ

24mm WIDTH CARRIER TAPE



SECT.X-X

キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(C)	(B)	(A)	MATERIAL NO.	極数 CIRCUIT
24	29.4	25.4	17.4	10.8	16.4	52745-2097	20
			16.9	10.3	15.9	-1997	19
			16.4	9.8	15.4	-1897	18
			15.9	9.3	14.9	-1797	17
			15.4	8.8	14.4	-1697	16
			14.9	8.3	13.9	-1597	15
			14.4	7.8	13.4	-1497	14
			13.9	7.3	12.9	-1397	13
			13.4	6.8	12.4	-1297	12
			12.9	6.3	11.9	-1197	11
			12.4	5.8	11.4	-1097	10
			11.9	5.3	10.9	-0997	9
			11.4	4.8	10.4	-0897	8
			10.9	4.3	9.9	-0797	7
			10.4	3.8	9.4	52745-0697	6

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

GENERAL TOLERANCES (UNLESS SPECIFIED)

10 UNDER	±---
10 OVER 30 UNDER	±---
30 OVER	±---
ANGULAR ±--- °	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: M.NABEI DATE: '05/02/14
CHECKED BY: K.TOJO DATE: '05/02/14
APPROVED BY: N.UKITA DATE: '05/02/14

TITLE: 0.5 FPC CONN UPR CONT EMBSTP PKG -LEAD FREE-

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-52745-051
SHEET NO.: 3 OF 3
SIZE: A3

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