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Part Number:

0527451297

Status:

Active

Overview:

Description:

0.50mm (.020") Pitch FFC/FPC Connector, Right Angle, SMT, ZIF, Top Contact Style, 12 Circuits, Lead-free, Gold (Au) Contact Plating, High Barrier Packaging

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

Agency Certification

UL

E29179

General

Product Family

FFC/FPC Connectors

Series

52745

Overview

ffc_fpc_smt

Product Name

N/A

Physical

Circuits (Loaded)

12

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-52745-052, 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

This document was generated on 06/05/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

F

E

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C

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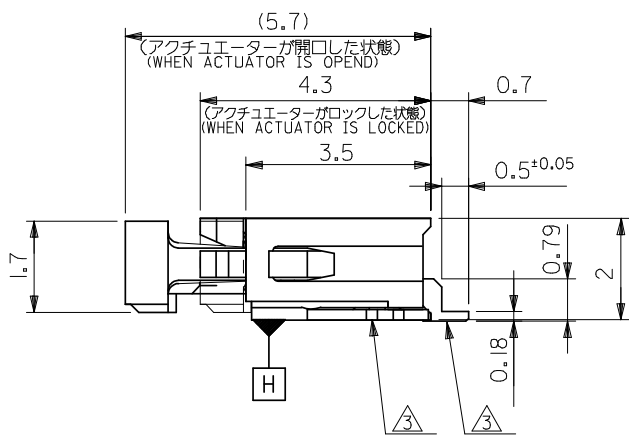
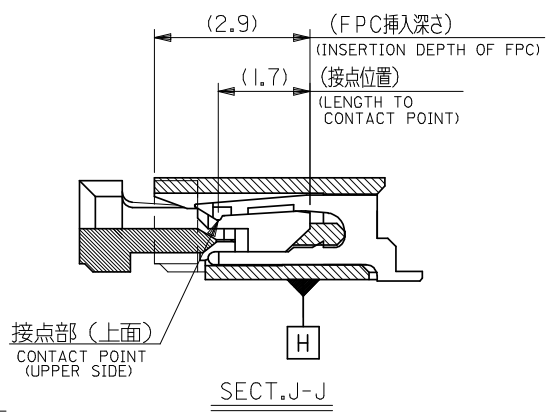
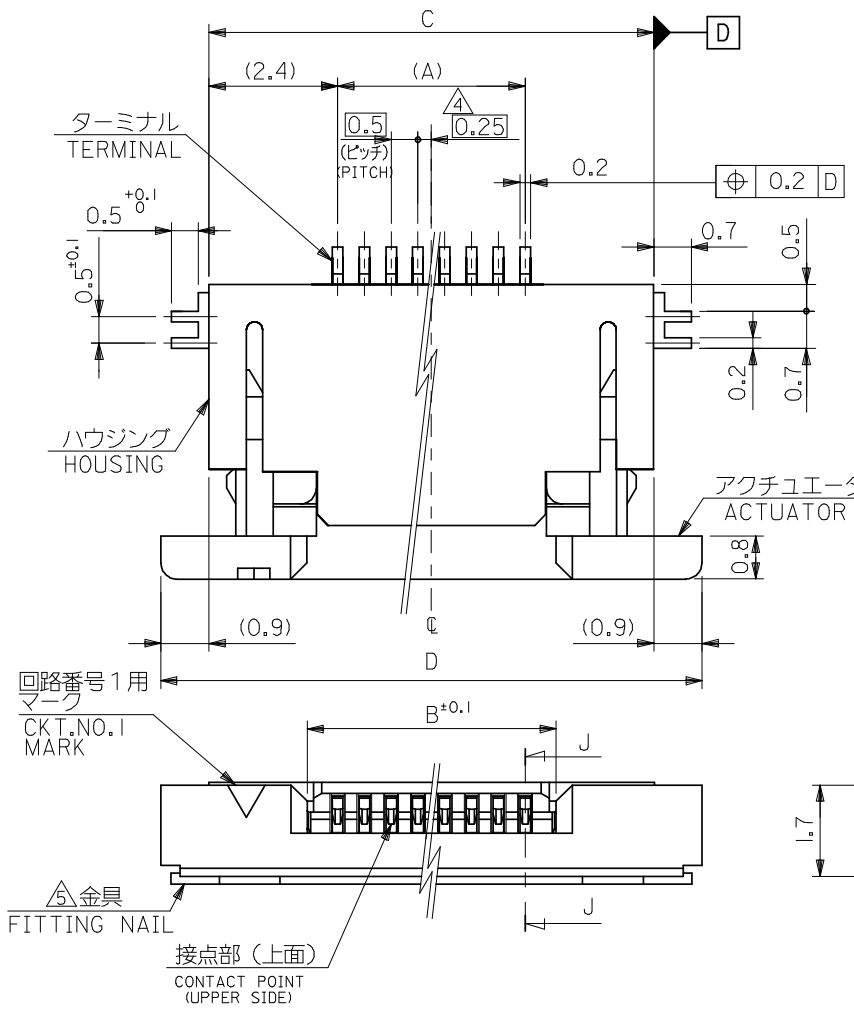
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注記 NOTES

- I. 使用材料 MATERIAL
- ハウジング : ポリアミド46、ガラス充填、UL94V-0 (白)
HOUSING : POLYAMIDE46, GLASS FILLED, UL94V-0(WHITE)
- アクチュエータ : ポリフェニレンサルファイド、ガラス充填、UL94V-0 (黒)
ACTUATOR : POLYPHENYLENE SULFIDE, GLASS FILLED, UL94V-0(BLACK)
- ターミナル : リン青銅 (t=0.2)
TERMINAL : 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 : リン青銅、ニッケル下地純銅メッキ (t=0.2)
FITTING NAIL : 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.
- △ ソルダータ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 0.15 MAX. とする。
MISALIGNMENT OF SOLDER TAILS AND FITTING NAILS FROM H
UPPER DIRECTION: 0.1 MAX. , LOWER DIRECTION: 0.15 MAX.
- △ 偶数極に適用。
APPLY FOR EVEN CIRCUIT.
- △ 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.

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
D	C	B	(A)	EMBOSSED TAPE ORDER No. オーダー番号	MATERIAL NO.	極数 CIRCUIT

52745-***59 MODEL NO.

REVISED
EC NO: J2008-4308
DRWN: NABEI
CHKD: THARUYAMA
APPR: NUKITA

DESCRIPTION
2008/06/27
2008/06/30
2008/06/30

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

DRAWN BY DATE
M. NABEI '05/02/14
CHECKED BY DATE
K. TOJO '05/02/14
APPROVED BY DATE
N. UKITA '05/02/14
MATERIAL NO.
SEE TABLE
SIZE
A3

SCALE

TITLE
0.5 FPC CONN ASSY ZIF
UPR CONT
-LEAD FREE-
DOCUMENT NO.
SD-52745-050
SHEET NO.
1 OF 2

DESIGN UNITS
METRIC
THIRD ANGLE
PROJECTION

MOLEX INCORPORATED

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

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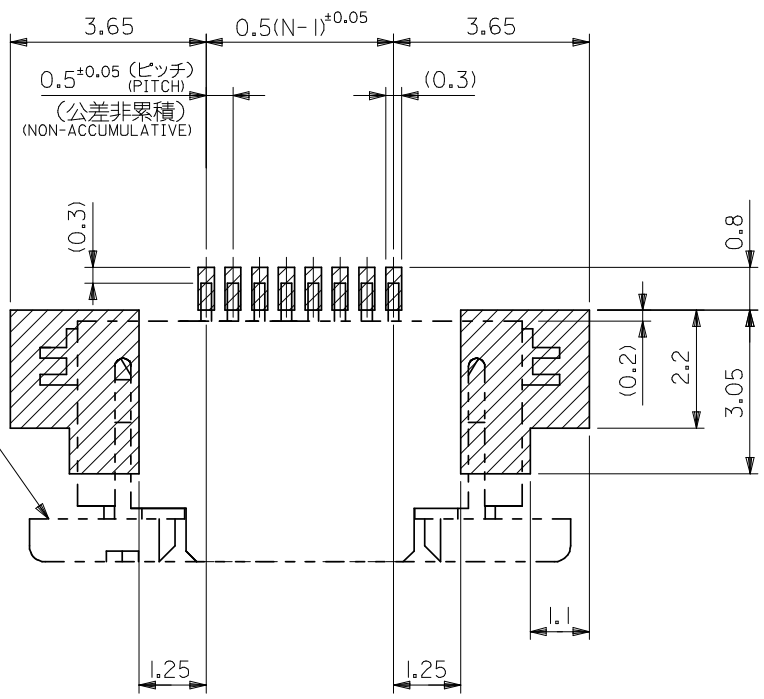
D

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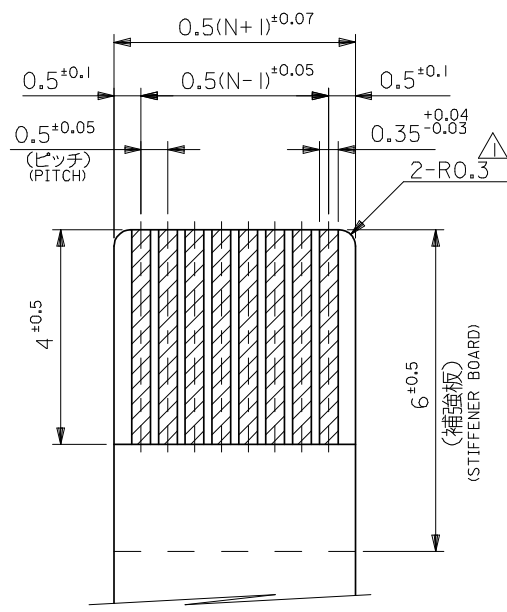
B

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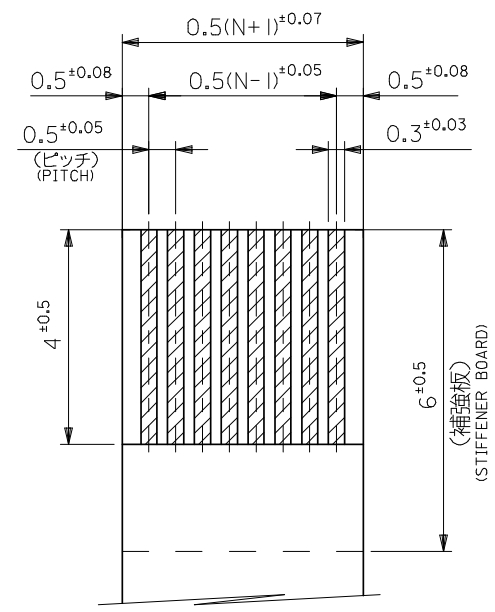
コネクタ位置
CONNECTOR
POSITION



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

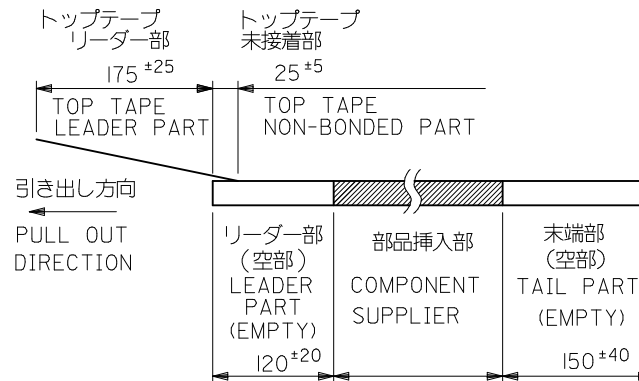
- △ R0.3は、FPCの導体部にかからないこと。
R0.3 MUST NOT BE OVERLAPPED TO PATTERN OF FPC.

52745-***59 | MODEL NO.

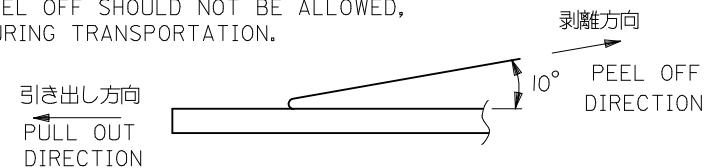
REVISED EC NO: J2008-4308 DRAWN: MABEL CHKD: THARYAWA APPR: NUKITA	DESCRIPTION 2008/06/27 2008/06/30 2008/06/30	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
		10 UNDER	±0.2	DRAWN BY M. NABEI	DATE '05/02/14	TITLE 0.5 FPC CONN ASSY ZIF UPR CONT -LEAD FREE-			
		10 OVER 30 UNDER	±0.25	CHECKED BY K. TOJO	DATE '05/02/14				
		30 OVER	±0.3	APPROVED BY N. UKITA	DATE '05/02/14	 MOLEX INCORPORATED			
		ANGULAR ±3 °		MATERIAL NO.					DOCUMENT NO.
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 1		SD-52745-050			SHEET NO. 2 OF 2
		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

注記 NOTES

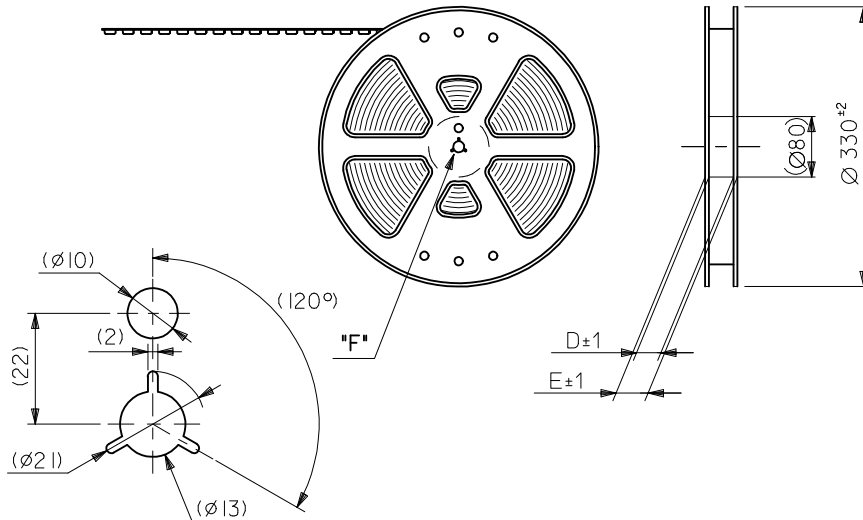
- 製品番号 52745-**-59 の梱包状態はアクチュエータがロックした状態とする。
詳細寸法については図面 SD-52745-050 を参照下さい。
IN THE PACKAGE,ACTUATOR OF PART NO.52745-**-59 SHOULD BE LOCKED
RE DETAILED DIMENSIONS,SEE SD-52745-050.
- 梱包数量：1000個/リール
NUMBER OF CONNECTORS:1000PCS/REEL
- リードテープ長さ LEAD TAPE LENGTH



- 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.



引き出し方向
PULL OUT
DIRECTION



DETAIL "F"

- 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>

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

REVISED EC NO.: J2009-2061 2009/05/20 DRWN:TKON CHKD:HMATSUMOTO 2009/05/21 APPR:NUKITA 2009/05/21	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± ---	DRAWN BY M. NABEI	DATE '05/02/14	TITLE 0.5 FPC CONN UPR CONT EMBSTP PKG -LEAD FREE-				
		10 OVER 30 UNDER	± ---	CHECKED BY K. TOJO	DATE '05/02/14					
		30 OVER	± ---	APPROVED BY N. UKITA	DATE '05/02/14	MOLEX INCORPORATED				
		ANGULAR ± --- °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-52745-051		1 OF 3			
	REV	A	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

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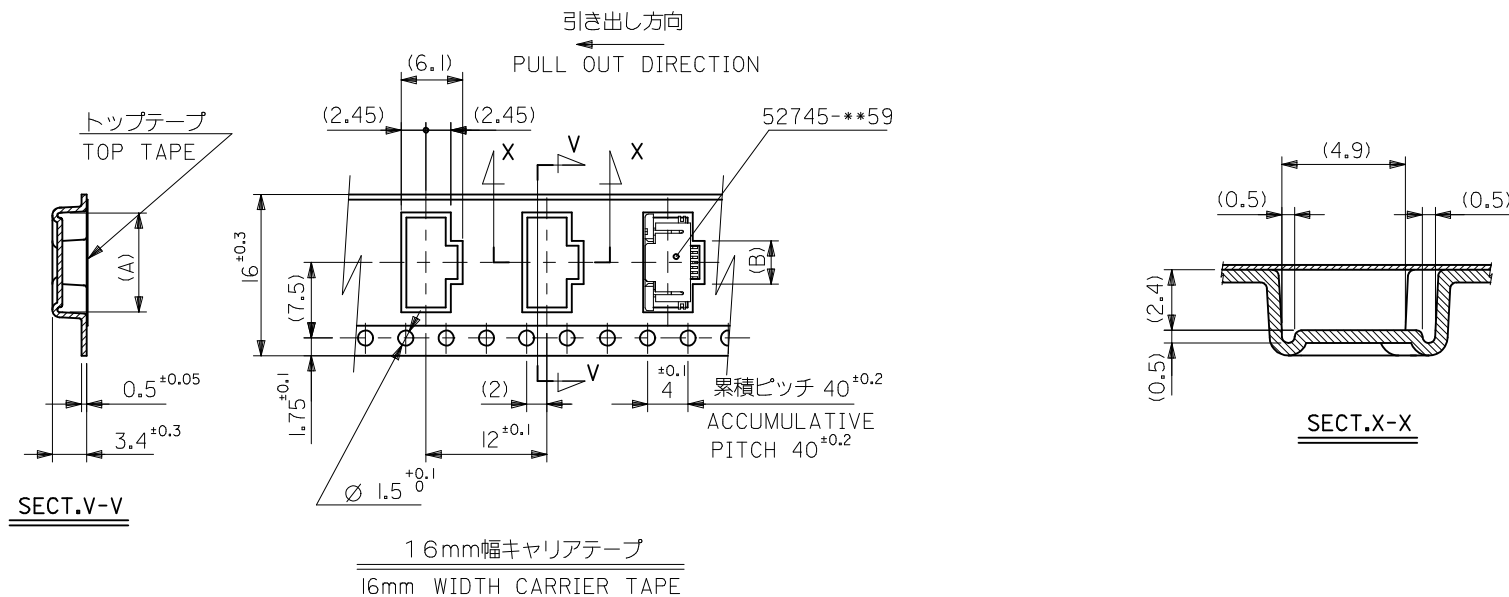
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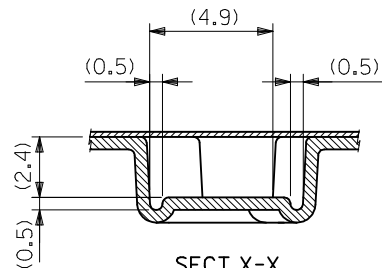


I6	21.4	17.4	2.8	8.4	52745-0497	4
キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(B)	(A)	MATERIAL NO.	極数 CIRCUIT

REVISED EC NO: J2009-2061 DRWN:TKON CHKD:HMATSUMOTO APPR:NUKITA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± ---	DRAWN BY M.NABEI	DATE '05/02/14	TITLE 0.5 FPC CONN UPR CONT EMBSTP PKG -LEAD FREE-				
		10 OVER 30 UNDER	± ---	CHECKED BY K.TOJO	DATE '05/02/14					
		30 OVER	± ---	APPROVED BY N.UKITA	DATE '05/02/14	MOLEX INCORPORATED				
		ANGULAR ± --- °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-52745-051		2 OF 3		
	REV A		SIZE A3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							



24mm幅キャリアテープ



SECT.X-X

キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(C)	(B)	(A)	MATERIAL NO.	極数 CIRCUIT
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REVISED EC NO: J2009-2061 DRAWN:TKON CHKD:HWATSUMOTO APPR:NUKITA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± ---	DRAWN BY M.NABEI	DATE '05/02/14	TITLE 0.5 FPC CONN UPR CONT EMBSTP PKG -LEAD FREE-				
		10 OVER 30 UNDER	± ---	CHECKED BY K.TOJO	DATE '05/02/14					
		30 OVER	± ---	APPROVED BY N.UKITA	DATE '05/02/14					
		ANGULAR ± --- °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-52745-051		3 OF 3		
	REV	A	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							