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Part Number:

0527451697

Status:

Active

Overview:

Description:

0.50mm (.020") Pitch FFC/FPC Connector, Right Angle, SMT, ZIF, Top Contact Style, 16 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)

16

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

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F

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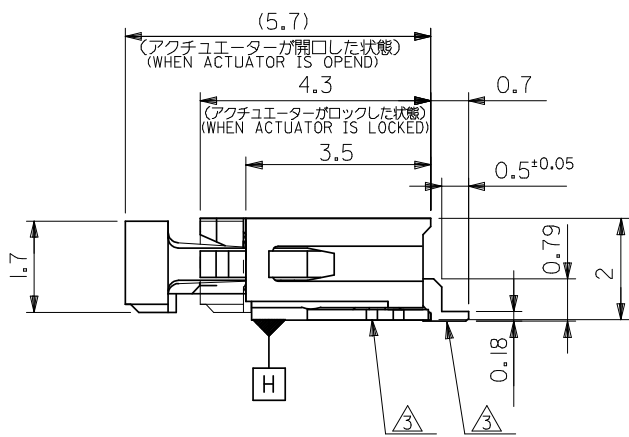
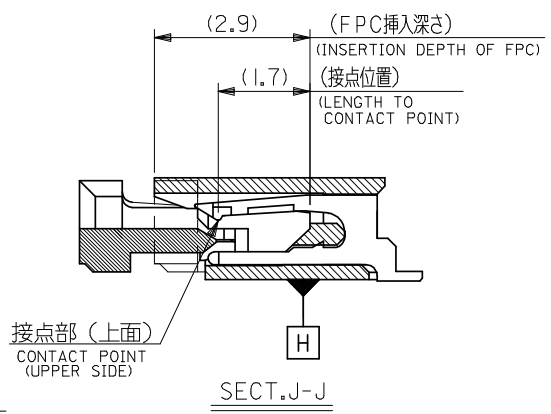
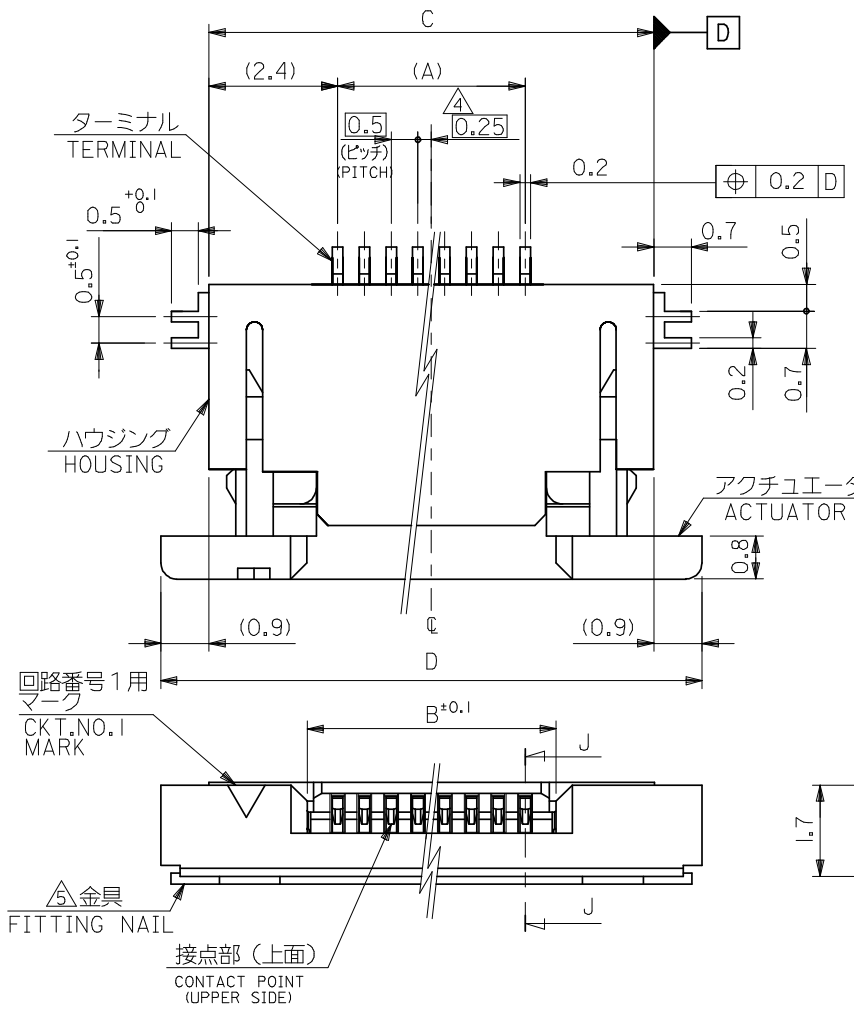
E

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注記 NOTES

1. 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

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-
molex MOLEX INCORPORATED
DOCUMENT NO.
SD-52745-050
SHEET NO.
1 OF 2

DESIGN UNITS
METRIC

THIRD ANGLE
PROJECTION

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

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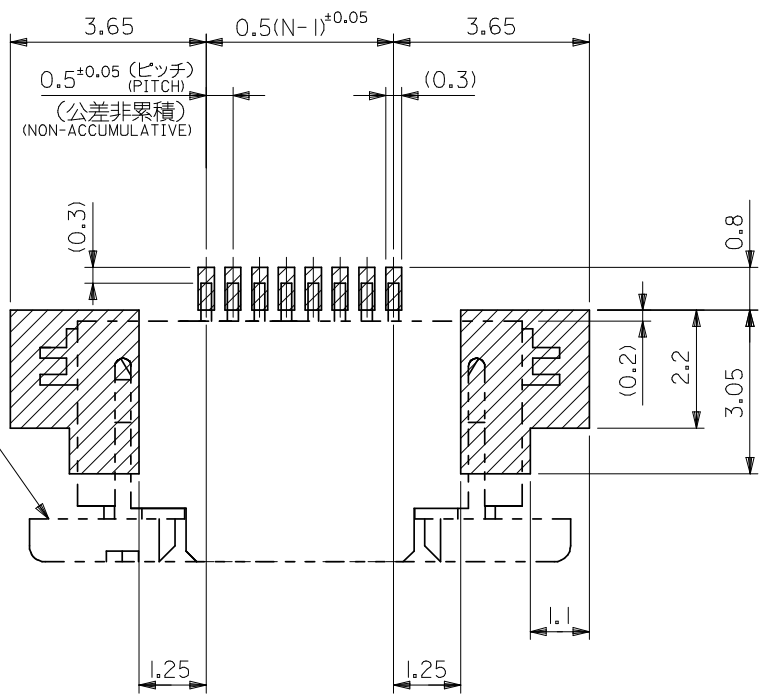
D

C

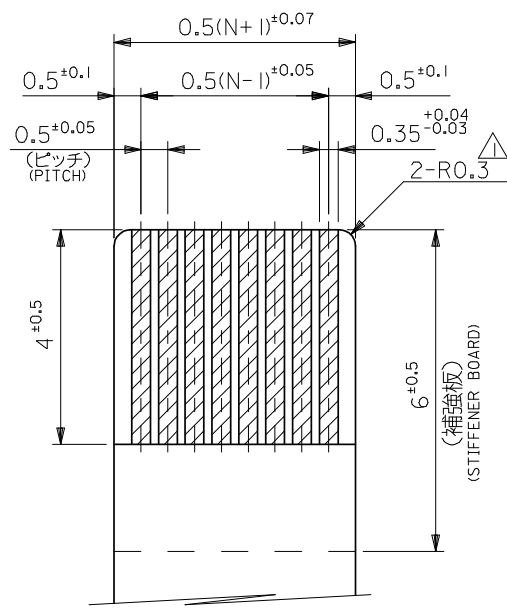
B

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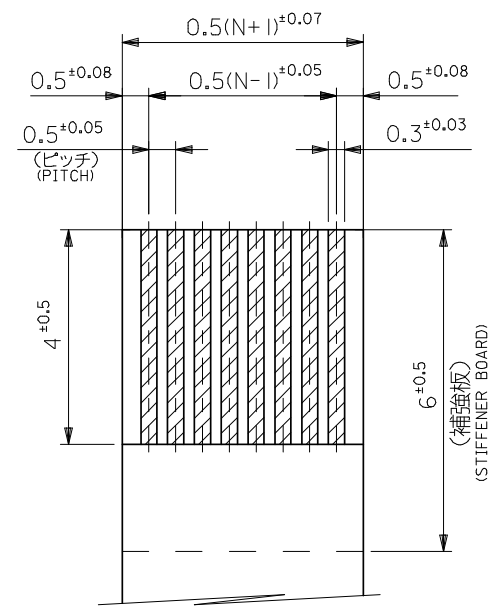
コネクタ位置
CONNECTOR
POSITION



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

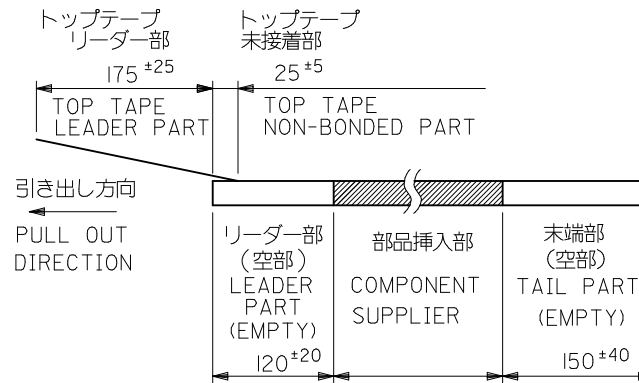
△ R0.3は、FPCの導体部にかからないこと。
R0.3 MUST NOT BE OVERLAPPED TO PATTERN OF FPC.

52745-***59 MODEL NO.

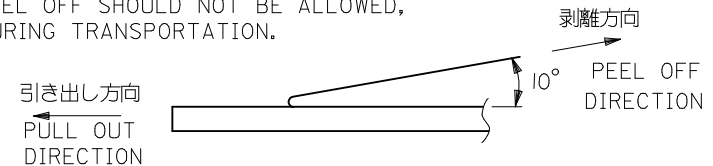
REVISED EC NO: J2008-4308 DRAWN: NABEI CHKD: THARYAWA APPR: NUKITA	DESCRIPTION 2008/06/27 2008/06/30 2008/06/30	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION			
		10 UNDER	±0.2	DRAWN BY M. NABEI	DATE '05/02/14	TITLE 0.5 FPC CONN 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							
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									

注記 NOTES

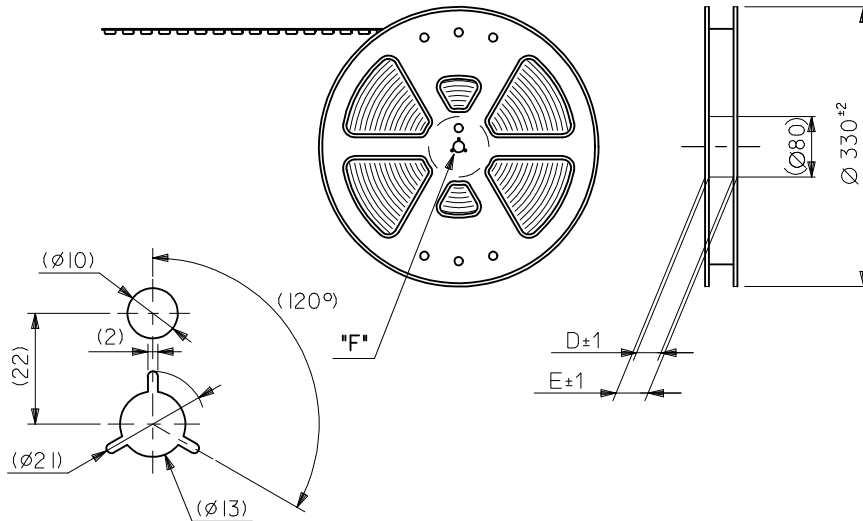
- 製品番号 52745-**-59 の梱包状態はアクチュエータがロックした状態とする。
詳細寸法については図面 SD-52745-050 を参照下さい。
IN THE PACKAGE,ACTUATOR OF PART NO.52745-**-59 SHOULD BE LOCKED
RE DETAILED DIMENSIONS,SEE SD-52745-050.
- 梱包数量：1000個/リール
NUMBER OF CONNECTORS:1000PCS/REEL
- リードテープ長さ LEAD TAPE LENGTH



- 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"

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.

REVISED EC NO.: J2009-2061 DRWN:TKON 2009/05/20 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	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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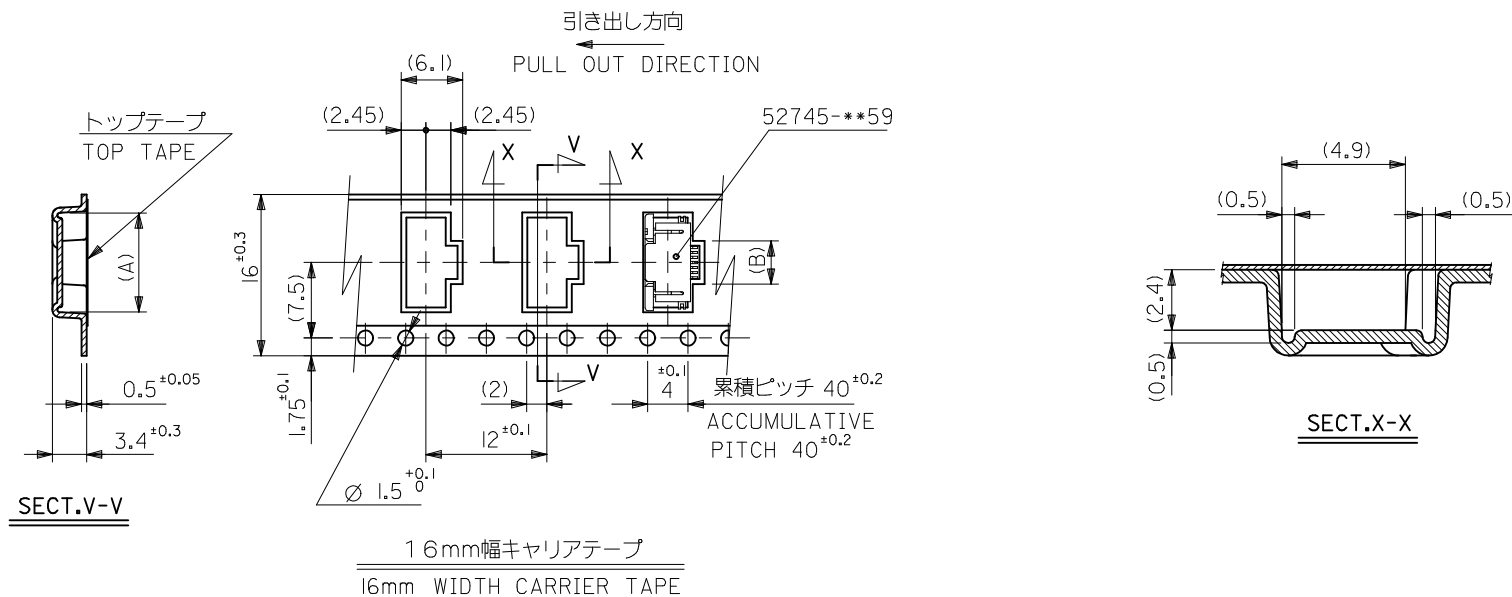
E

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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 2009/05/20 CHKD:HMATSUMOTO 2009/05/21 APPR:NUKITA 2009/05/21 A	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
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		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			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

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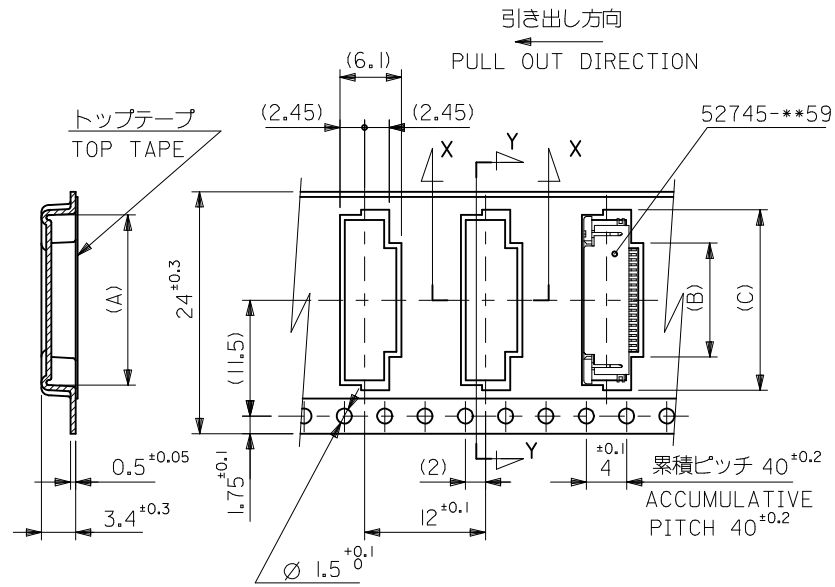
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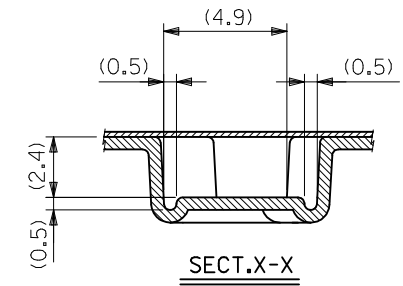
C

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SECT.Y-Y



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
キャリアテープ幅 CARRIER TAPE WIDTH	E	D	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
CARRIER TAPE WIDTH	E	D	(C)	(B)	(A)	MATERIAL NO.	極数 CIRCUIT

REVISED EC NO: J2009-2061 2009/05/20 DRWN:TKN CHKD:HMATSUMOTO 2009/05/21 APPR:NUKITA 2009/05/21 A	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
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		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.						
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-52745-051		3 OF 3		
			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						