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Part Number:

0527450897

Status:

Active

Overview:

Description:

0.50mm (.020") Pitch FFC/FPC Connector, Right Angle, SMT, ZIF, Top Contact Style, 8 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)

8

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

This document was generated on 06/05/2010

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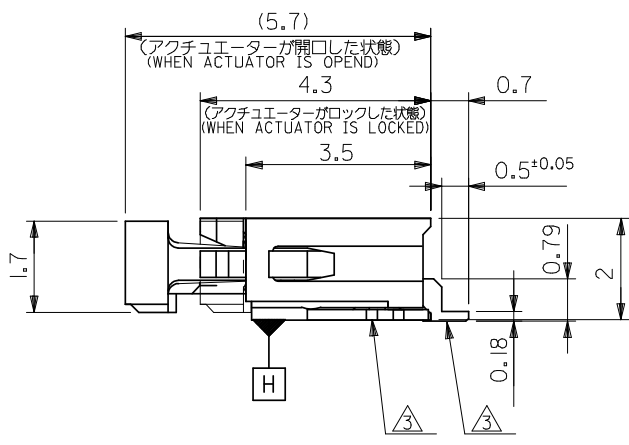
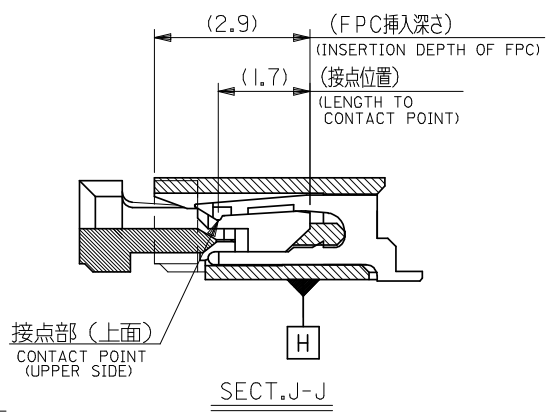
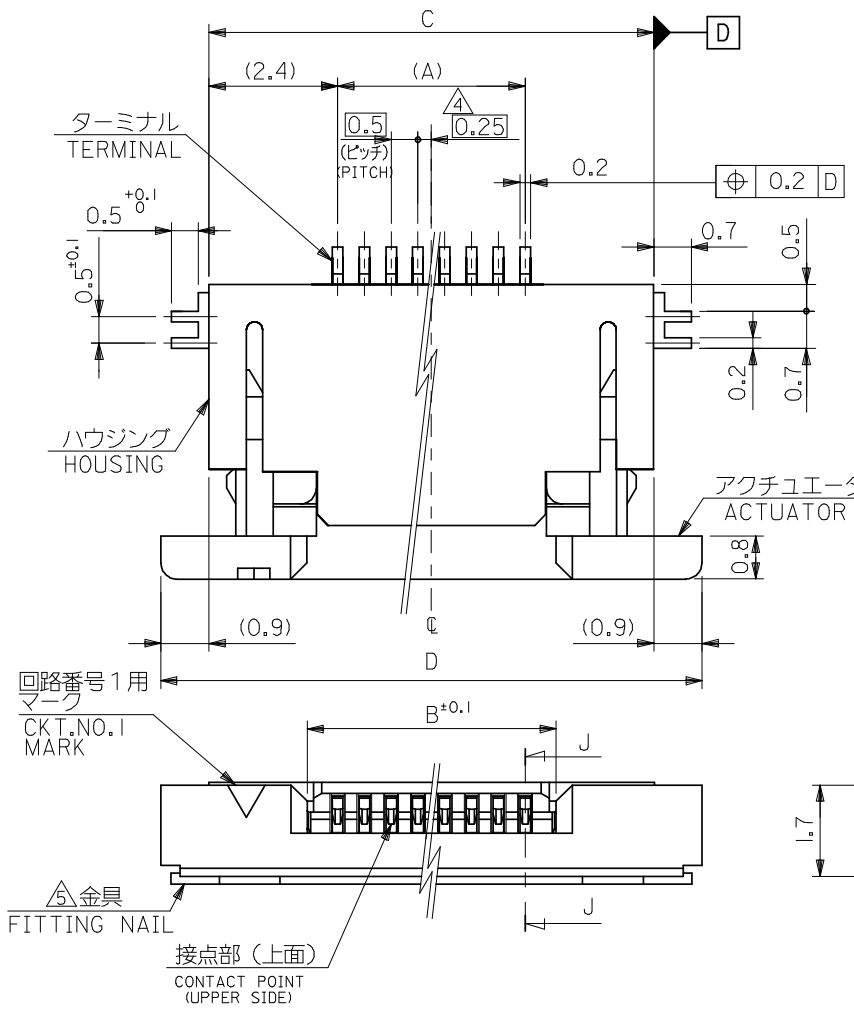
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注記 NOTES

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 B	DESCRIPTION 2008/06/27 2008/06/30 2008/06/30 REV	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 TABLE		SD-52745-050			SHEET NO. 1 OF 2
				SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

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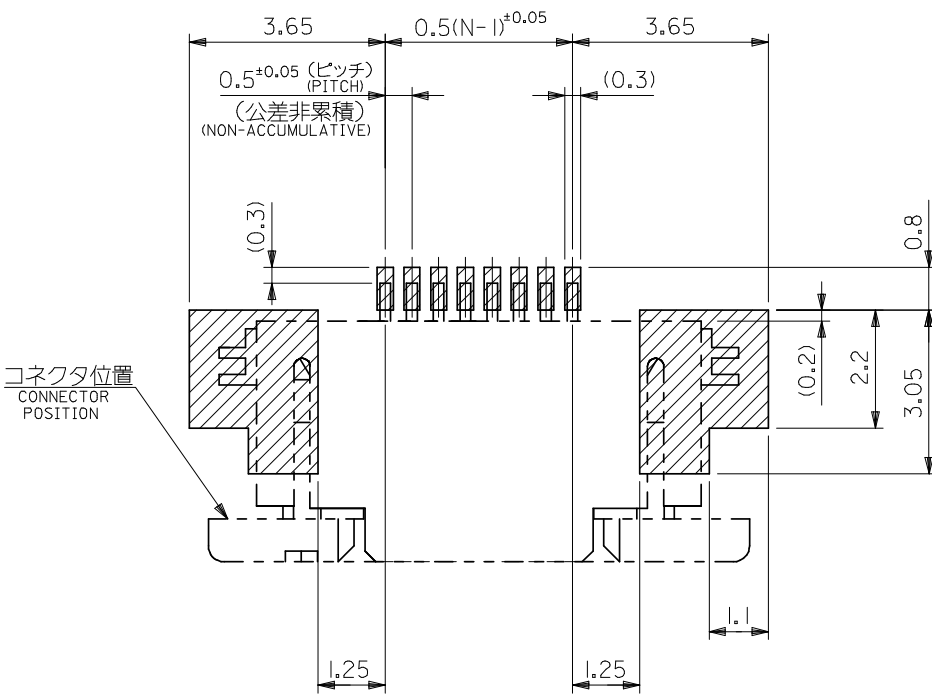
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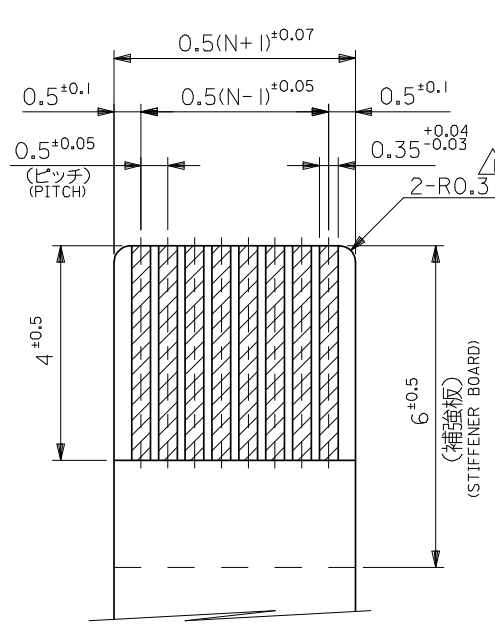
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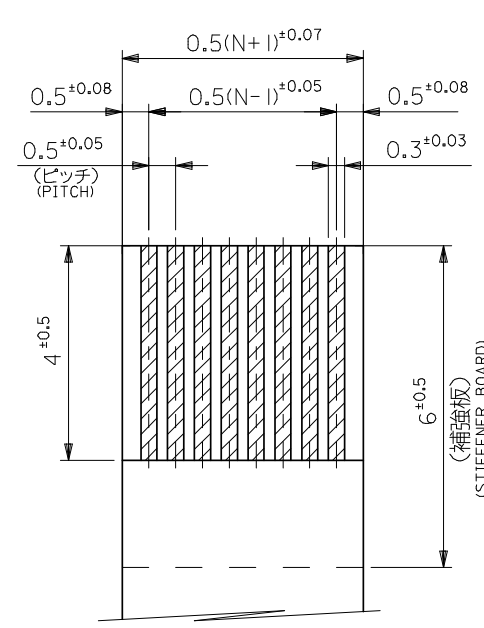
参考基板レイアウト
P.C. BOARD PATTERN
DIMENSION (REF.)
(マウント面)
(MOUNTING SIDE)

注記 NOTES

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



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。

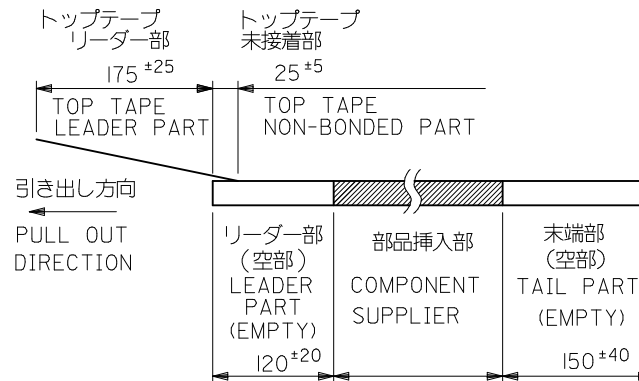
ABOUT FPC :
RECOMMENDED PUNCHER DIRECTION : FROM CONDUCTOR SIDE TO STIFFENER BOARD SIDE.
RECOMMENDED MATERIAL :
STIFFENER FILM : POLYIMIDE
BONDING AGENT : THERMOSETTING BONDING AGENT

52745-***59 | MODEL NO.

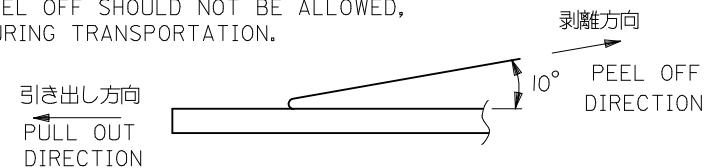
REVISED EC NO: J2008-4308 DRAWN: MABEI CHKD: THARYAWA APPR: NUKITA	DESCRIPTION 2008/06/27 2008/06/30 2008/06/30	REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION				
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			10 OVER 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.		SHEET NO.	
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 1					SD-52745-050		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

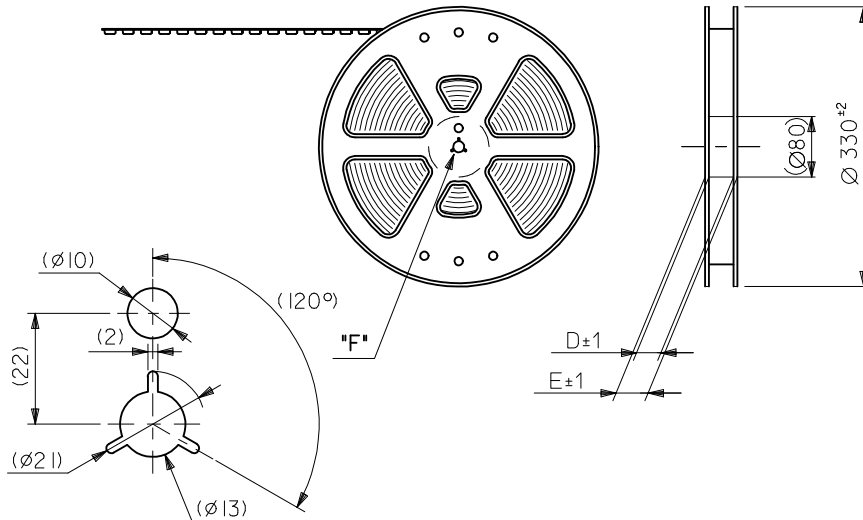
- 製品番号 52745-**-59 の梱包状態はアクチュエータがロックした状態とする。
詳細寸法については図面 SD-52745-050 を参照下さい。
IN THE PACKAGE,ACTUATOR OF PART NO.52745-**-59 SHOULD BE LOCKED RE DETAILED DIMENSIONS,SEE SD-52745-050.
- 梱包数量：1000個/リール
NUMBER OF CONNECTORS:1000PCS/REEL
- リードテープ長さ LEAD TAPE LENGTH



- 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*

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 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							

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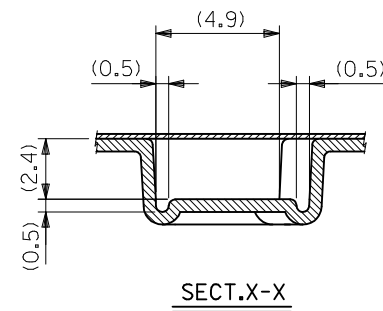
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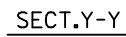
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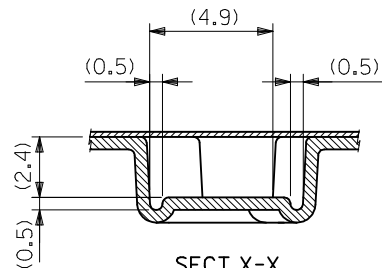


DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
DRAWN BY M. NABEI	DATE '05/02/14	TITLE 0.5 FPC CONN UPR CONT EMBSTP PKG -LEAD FREE-		
CHECKED BY K. TOJO	DATE '05/02/14			
APPROVED BY N. UKITA	DATE '05/02/14			
MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-52745-051		SHEET NO. 2 OF 3
SIZE A3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

REVISED	EC NO: J2009-2061	2009/05/20	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)	
	DRWN:TKON	2009/05/21		10 UNDER	± ---
	CHKD:HWATSUMOTO			10 OVER 30 UNDER	± ---
	APPR:NUKITA			30 OVER	± ---
				ANGULAR	± --- °
A		REV		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	



24mm幅キャリアテープ



SECT.X-X

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			
キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(C)	(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	
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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	
	REV A	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							