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Part Number: [0545502471](#)
Status: **Active**
Overview: [ffc_fpc_smt](#)
Description: 0.50mm (.020") Pitch FFC/FPC Connector, 1.20mm (.047") Height, Right Angle, SMT, ZIF, Top Contact Style, 24 Circuits, Lead-free, Gold Contact Plating

Documents:

3D Model	Product Specification PS-54550-012 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

General

Product Family	FFC/FPC Connectors
Series	54550
Overview	ffc_fpc_smt
Product Name	N/A

Physical

Circuits (Loaded)	24
Contact Position	Top
Durability (mating cycles max)	20
Entry Angle	90° Angle
Mated Height (in)	0.047 In
Mated Height (mm)	1.20 mm
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
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

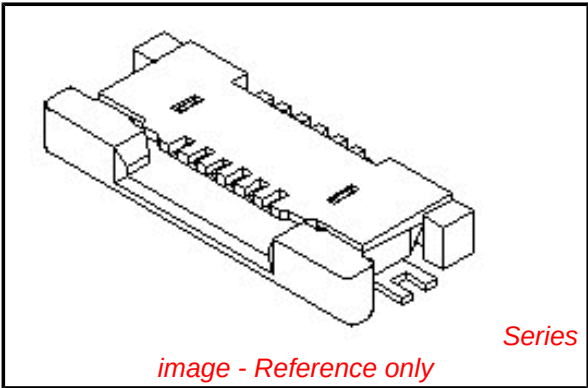
Electrical

Current - Maximum per Contact	0.5A
Voltage - Maximum	50V

Material Info

Reference - Drawing Numbers

Packaging Specification	SPK-54550-056
Product Specification	PS-54550-012, RPS-54550-078, RPS-54550-080, RPS-54550-083, RPS-54550-088, RPS-54550-089, RPS-54550-090
Sales Drawing	SD-54550-042, SD-54550-043



EU RoHS

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

China RoHS

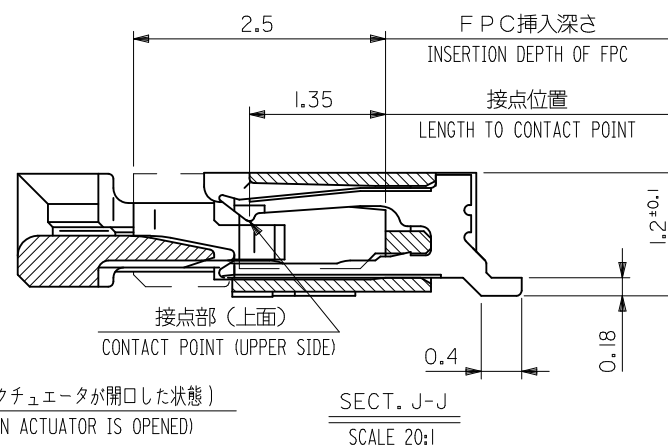
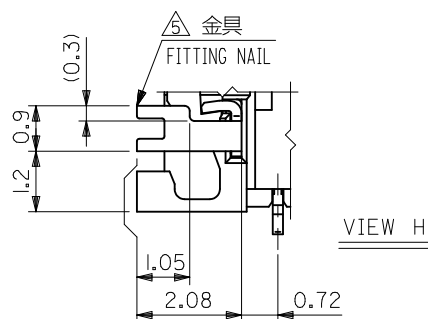
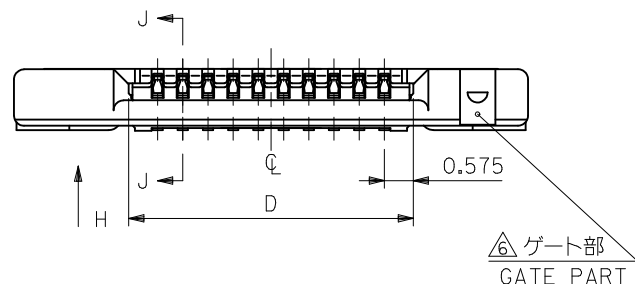
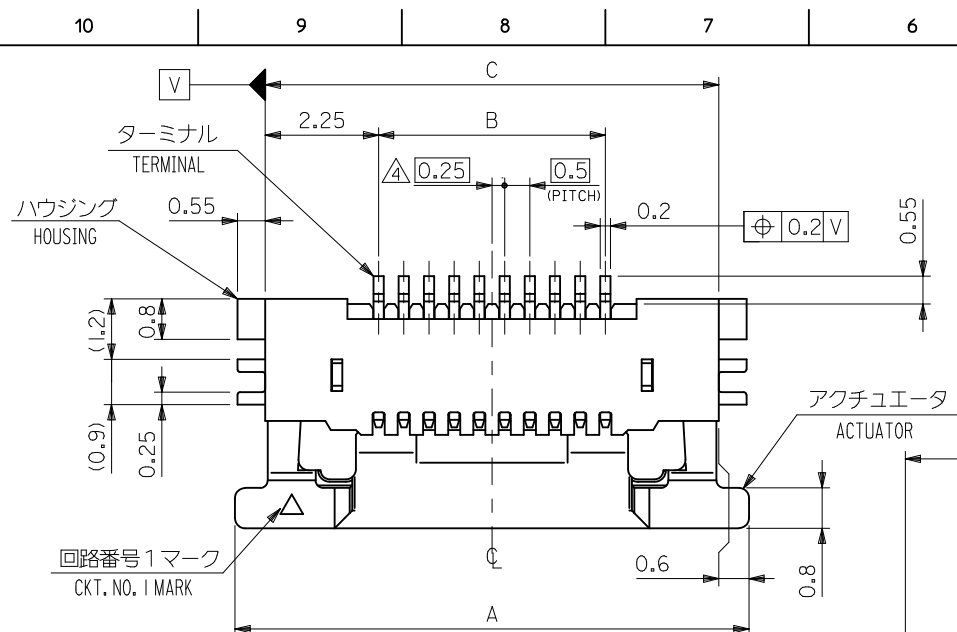


**Need more information on product
environmental compliance?**

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of
Compliance, [click here](#)

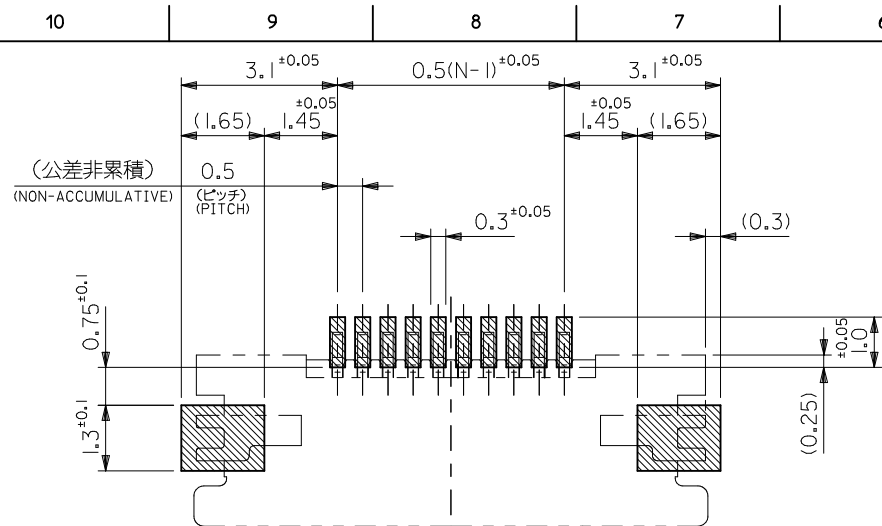
Please visit the [Contact Us](#) section for any
non-product compliance questions.

Search Parts in this Series
[54550Series](#)



0.3 ^{+0.03}	13.65	17	12.5	18.2	54550-2671	26
	12.65	16	11.5	17.2	54550-2471	24
	11.65	15	10.5	16.2	54550-2271	22
	11.15	14.5	10	15.7	54550-2171	21
	10.65	14	9.5	15.2	54550-2071	20
	10.15	13.5	9	14.7	54550-1971	19
	9.65	13	8.5	14.2	54550-1871	18
	9.15	12.5	8	13.7	54550-1771	17
	8.65	12	7.5	13.2	54550-1671	16
	7.65	11	6.5	12.2	54550-1471	14
	7.15	10.5	6	11.7	54550-1371	13
	6.65	10	5.5	11.2	54550-1271	12
	6.15	9.5	5	10.7	54550-1171	11
	5.65	9	4.5	10.2	54550-1071	10
	5.15	8.5	4	9.7	54550-0971	9
	4.65	8	3.5	9.2	54550-0871	8
	4.15	7.5	3	8.7	54550-0771	7
	3.65	7	2.5	8.2	54550-0671	6
3.15	6.5	2	7.7	54550-0571	5	
2.65	6	1.5	7.2	54550-0471	4	
THICKNESS OF FPC	D	C	B	A	EMBOSSED TAPE	極数
					ORDER No. オーダー番号	Ckt

REVISED	EC NO: J2010-1202				2009/12/11 2009/12/11 2009/12/14				GENERAL TOLERANCES (UNLESS SPECIFIED)				DIMENSION STYLE				SCALE		DESIGN UNITS		CONNECTION FOR SERIES NO. 54550-***29				THIRD ANGLE PROJECTION		
	DRAWN: TONO				CHKD: HSHI MOYAMA								MM ONLY				10:1		METRIC								
	M				DESCRIPTION				10 UNDER ± 0.2				DRAWN BY DATE				TITLE 0.5 FPC CONN. HSG ASSY FOR SMT RA U/CONTACT										
					10 OVER 30 UNDER ± 0.25				M. NINOMIYA 2004/02/12																		
					30 OVER ± 0.3				CHECKED BY DATE																		
					APPR: KMORI KAWA				K. TOJO 2004/02/12				APPROVED BY DATE														
REV				ANGULAR ± 3 °				M. SASAO 2004/02/12				MOLEX INCORPORATED				DOCUMENT NO.				SHEET NO.							
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				MATERIAL NO.				SEE TABLE				SD-54550-042				1 OF 2							
								SIZE A3				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION															



参考基板レイアウト
RECOMMENDED P.C.BOARD
PATTERN DIMENSION (REF.)

コネクタ位置
CONNECTOR POSITION

注記 NOTES

1. 使用材料 MATERIAL

ハウジング : LCP, UL94V-0
HOUSING

アクチュエータ : PPS, UL94V-0
ACTUATOR

ターミナル : リン青銅
TERMINAL PHOSPHOR BRONZE

メッキ : 接点部 : 金メッキ
PLATING CONTACT PORTION : GOLD PLATING

: 半田付部 : 錫メッキ
SOLDERING PORTION : TIN PLATING

: 下地 : ニッケルメッキ
UNDER PLATING : NICKEL PLATING

金具 : リン青銅、ニッケル下地 錫メッキ
FITTING NAIL PHOSPHOR 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.54550-**29 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 Z
に対し上方向 0 MAX.、下方向 0.15 MAX.とし

相互のバラツキ量は 0.1 MAX. とする。

MISALIGNMENT OF SOLDER TAILS AND FITTING NAILS FROM Z
UPPER DIRECTION: 0 MAX., LOWER DIRECTION: 0.15 MAX.
OFFSET BETWEEN UPPER AND LOWER 0.1 MAX.

△偶数極に適用。
APPLY FOR EVEN CIRCUIT.

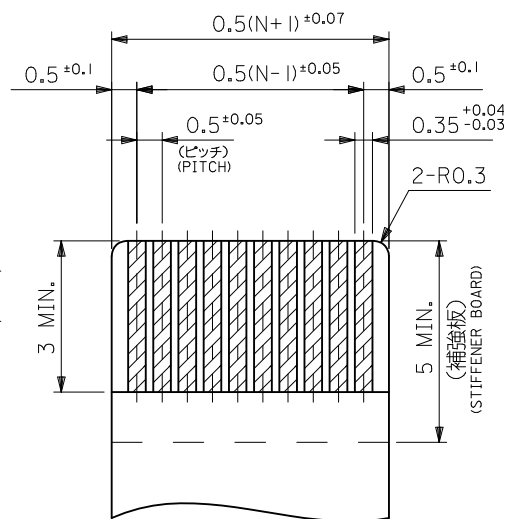
△パターンはくり止め用金具
FITTING NAIL FOR PREVENTION OF PEELING
OF P.C.B. PATTERN.

△ゲート部は、左右どちらか一方にあるものとする。
A GATE PART -- RIGHT AND LEFT -- IT SHALL BE IN EITHER.

7. 本製品は 54550-**27 の鉛フリー品である。
THIS PRODUCT IS LEAD FREE OF 54550-**27.

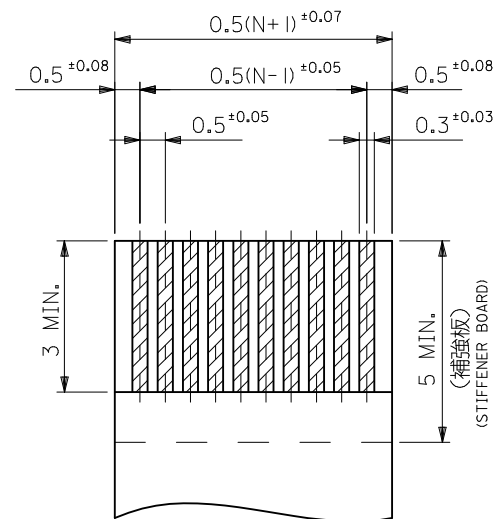
8. N: 極数 N: CIRCUIT.

9. ELV 及び RoHS 適合品 / ELV AND RoHS COMPLIANT.



適合FPC推奨寸法
APPLICABLE FPC
RECOMMENDED DIMENSION

(仕上がり厚さ: 表参照)
(THICKNESS: SEE CHART)



適合FFC推奨寸法
APPLICABLE FFC
RECOMMENDED DIMENSION

(仕上がり厚さ: 表参照)
(THICKNESS: SEE CHART)

FPC/FFC について:

打ち抜き方向は導体側から補強板側を推奨します。

導体部については軟銅箔35 μmまたは50 μmを推奨します。

ABOUT FPC/FFC

RECOMMENDED PUNCHER DIRECTION : FROM CONDUCTOR SIDE TO STIFFENER FILM SIDE.

RECOMMENDED CONDUCTOR SPEC :

THICKNESS OF SOFT COPPER FOIL : 35 MICROMETER OR 50 MICROMETER.

FPC について:

補強フィルム材質はポリイミドを推奨します。ベースフィルムは25 μmを推奨します。

接着剤は熱硬化接着剤を推奨します。

尚、接着剤の接点部への付着は導通不良の原因になりますので、染み出しが無い様、お願い致します。

ABOUT FPC

RECOMMENDED MATERIAL/THICKNESS.

STIFFENER FILM : POLYIMIDE

BASE FILM THICKNESS : 25 μm

BONDING AGENT : THERMOSETTING BONDING AGENT

PLEASE PUT APPROPRIATE AMOUNT OF ADHESIVE ON THE CONTACT
AREA BECAUSE THE EXTRA ADHESIVE MAY CAUSE THE DEFECT IN
ELECTRICAL CONTINUITY.

REVISED	EC NO. J2010-1202	DRWN: TONO	CHKD: HSHIMOMIYAMA	APPR: KIMORI KAWA	REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
						10 UNDER	±0.2	DRAWN BY	DATE	TITLE			
						10 OVER 30 UNDER	±0.25	M. NINOMIYA	2004/02/12	0.5 FPC CONN. HSG ASSY FOR SMT RA U/CONTACT	MOLEX	MOLEX INCORPORATED	SHEET NO. 2 OF 2
						30 OVER	±0.3	CHECKED BY	DATE				
								K. TOJO	2004/02/12				
								APPROVED BY	DATE				
								M. SASAO	2004/02/12				
								MATERIAL NO.					
								SEE SHEET 1					
								SIZE					
								A3					
								THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

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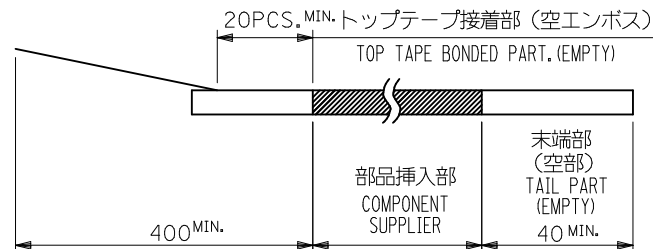
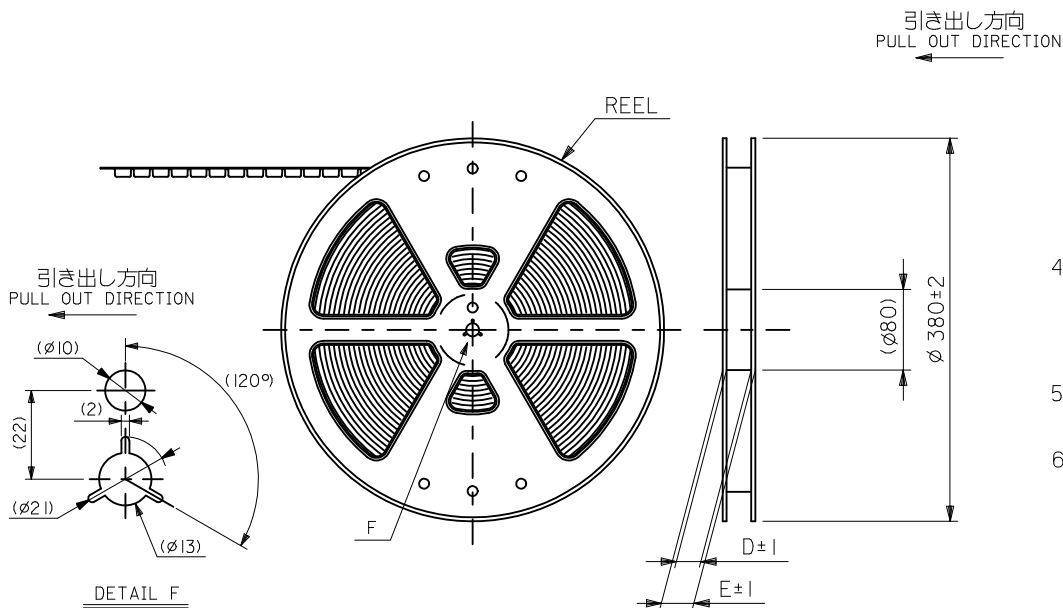
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NOTES

- 製品詳細寸法については図面 SD-54550-042 を参照下さい。
RE DETAILED DIMENSION, SEE SD-54550-042.
- 梱包数量：3000個/リール
NUMBER OF CONNECTORS : 3000PCS/REEL
- リードテープ長さ LEAD TAPE LENGTH



- 材料 (MATERIAL)
キャリアテープ (CARRIER TAPE) : ポリプロピレン (POLYPROPYLENE)
トップテープ (TOP TAPE) : PET , PE , PEF
リール (REEL) : ポリスチレン (P.S) <リサイクル材を含む>
POLYSTYRENE (P.S) <RECYCLE MATERIAL CONTAINED>
- 本製品は 54550-**9I の鉛フリー品である。
THIS PRODUCT IS LEAD FREE OF 54550-**9I.
- ELV 及び RoHS 適合品 / ELV AND RoHS COMPLIANT.

REVISED EC NO: J2010-1202 DRWN: TONO 2009/12/11 CHKD: SHIHOYAMA 2009/12/11 APPR: KMORI KAWA 2009/12/14	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
		10 UNDER	± 0.2	DRAWN BY M. NINOMIYA	DATE 2004/02/12	TITLE EMBSTP PKG FOR 0.5 FPC CONN ZIF UPR CONT		
		10 OVER 30 UNDER	± 0.25	CHECKED BY K. TOJO	DATE 2004/02/12			
		30 OVER	± 0.3	APPROVED BY M. SASAO	DATE 2004/02/12	 MOLEX INCORPORATED		
		ANGULAR ±3 °		MATERIAL NO.				
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 1 OR 2		SD-54550-043		

L	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
		SIZE A3			

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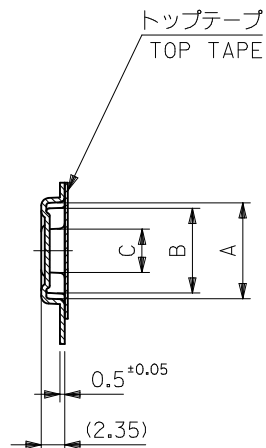
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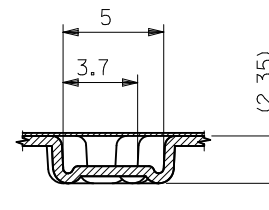
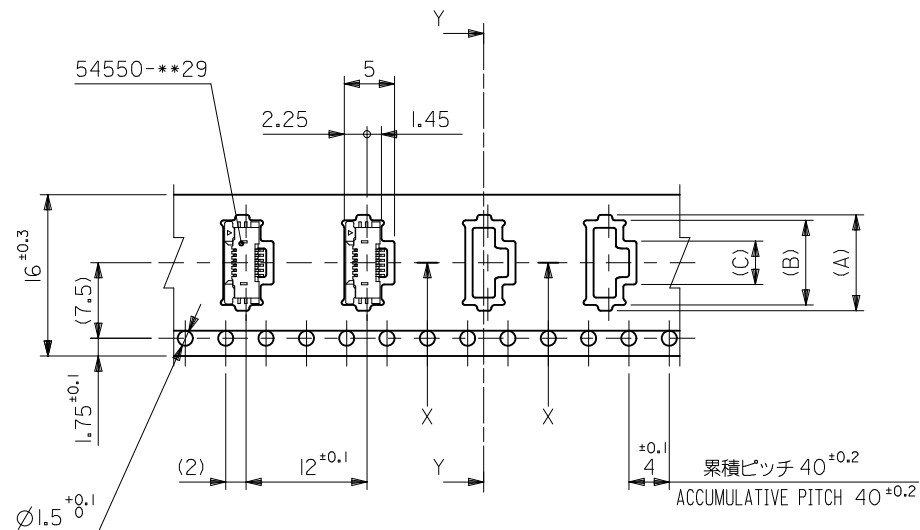
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10 9 8 7 6 5 4 3 2 1

引き出し方向
PULL OUT DIRECTION



SECT. Y-Y



SECT. X-X

16mm幅キャリアテープ
16mm WIDTH CARRIER TAPE

16	21.4	17.4	4.3	8.4	9.5	54550-0671	6
			3.8	7.9	9	54550-0571	5
			3.3	7.4	8.5	54550-0471	4
キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(C)	(B)	(A)	製品番号 MATERIAL No.	極数 Ckt

REVISED EC NO: J2010-1202 DRWN: TONO CHKD: SHIMIZUYAMA APPR: KIMORI KAWA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	DRAWN BY M. NINOMIYA	DATE 2004/02/12	TITLE EMBSTP PKG FOR 0.5 FPC CONN ZIF UPR CONT				
		10 OVER 30 UNDER	± 0.25	CHECKED BY K. TOJO	DATE 2004/02/12					
		30 OVER	± 0.3	APPROVED BY M. SASAO	DATE 2004/02/12	MOLEX INCORPORATED				
		ANGULAR ±3 °		MATERIAL NO.						
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-54550-043			2 OF 3	
	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

F

E

D

C

B

A

F

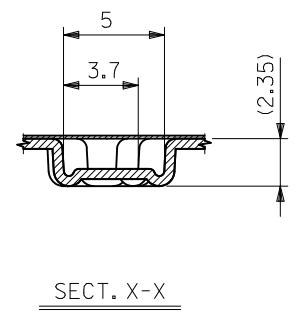
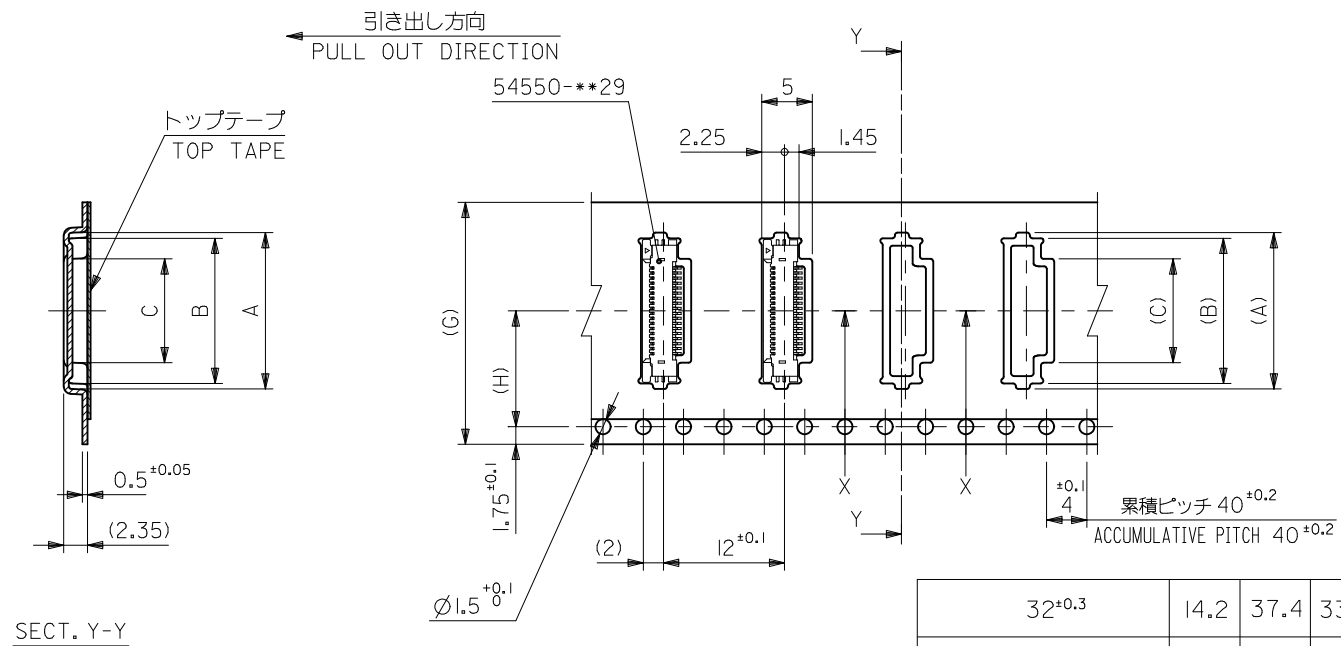
E

D

C

B

A



32 ^{+0.3}	14.2	37.4	33.4	14.3	18.4	19.5	54550-2671	26
24 ^{+0.3}	11.5	29.4	25.4	13.3	17.4	18.5	54550-2471	24
				12.3	16.4	17.5	54550-2271	22
				11.8	15.9	17	54550-2171	21
				11.3	15.4	16.5	54550-2071	20
				10.8	14.9	16	54550-1971	19
				10.3	14.4	15.5	54550-1871	18
				9.8	13.9	15	54550-1771	17
				9.3	13.4	14.5	54550-1671	16
				8.3	12.4	13.5	54550-1471	14
				7.8	11.9	13	54550-1371	13
				7.3	11.4	12.5	54550-1271	12
				6.8	10.9	12	54550-1171	11
				6.3	10.4	11.5	54550-1071	10
				5.8	9.9	11	54550-0971	9
				5.3	9.4	10.5	54550-0871	8
				4.8	8.9	10	54550-0771	7
G キャリアテープ幅 CARRIER TAPE WIDTH	H	E	D	(C)	(B)	(A)	製品番号 MATERIAL No.	極数 Ck+

REVISED EC NO: J2010-1202 DRWN: TONO 2009/12/11 CHKD: SHIMOMIYAMA 2009/12/11 APPR: KMORI KAWA 2009/12/14	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	DRAWN BY M. NINOMIYA	DATE 2004/02/12	TITLE EMBSTP PKG FOR 0.5 FPC CONN ZIF UPR CONT				
		10 OVER 30 UNDER	± 0.25	CHECKED BY K. TOJO	DATE 2004/02/12					
		30 OVER	± 0.3	APPROVED BY M. SASAO	DATE 2004/02/12	MOLEX INCORPORATED				
		ANGULAR ±3 °		MATERIAL NO.						
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SHEET NO. 3 OF 3				
			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						
REV										

Данный компонент на территории Российской Федерации

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<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

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