

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0545501971](#)

**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, 19 Circuits, Gold (Au) Contact Plating

**Documents:**

[3D Model](#)

[Drawing \(PDF\)](#)

[Product Specification PS-54550-012 \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

**General**

Product Family	FFC/FPC Connectors
Series	<a href="#">54550</a>
Overview	<a href="#">ffc fpc smt</a>
Product Name	N/A

**Physical**

Circuits (Loaded)	19
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

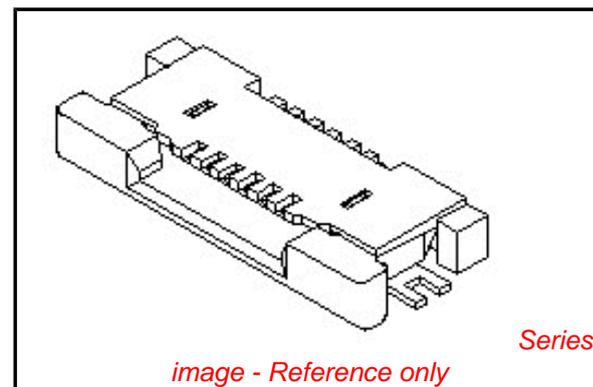
**Electrical**

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



*image - Reference only*

**EU RoHS**

**ELV and RoHS  
Compliant**

**REACH SVHC**

Not Reviewed

**Halogen-Free**

**Status**

**Not Reviewed**

**China RoHS**



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

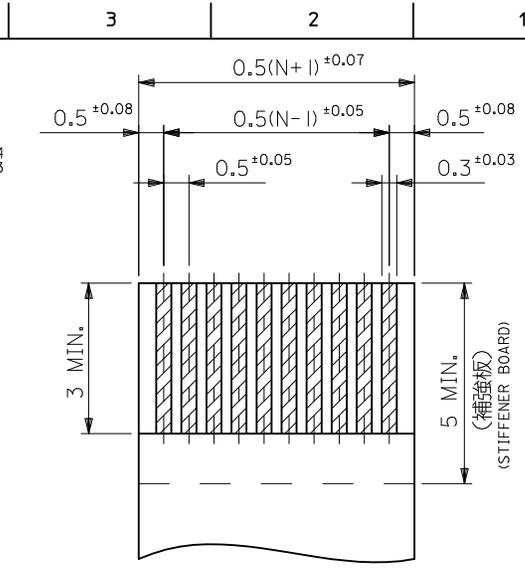
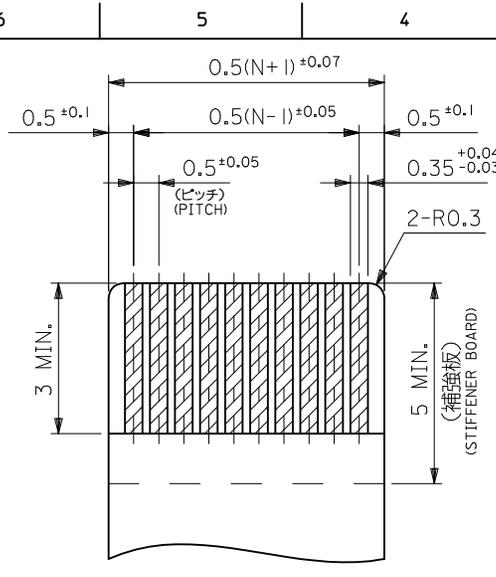
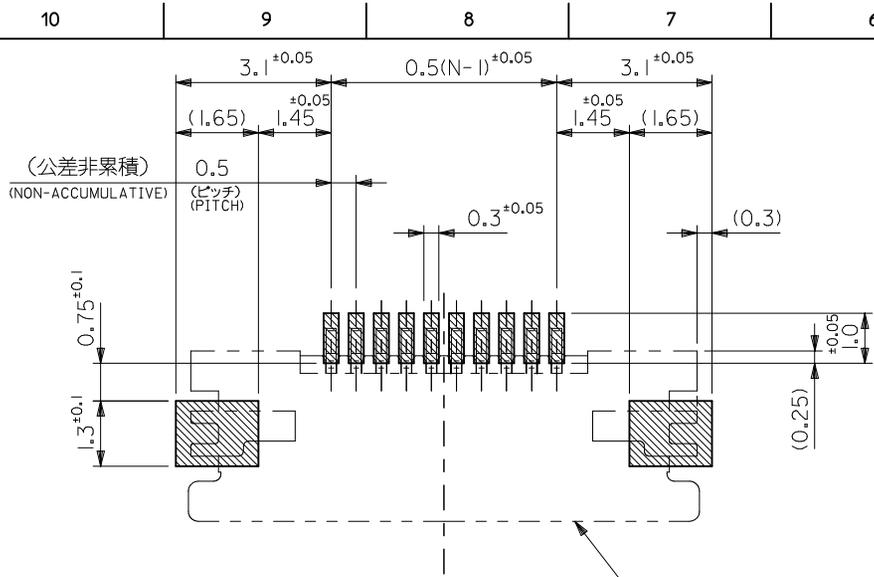
Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
For a multiple part number RoHS Certificate of  
Compliance, [click here](#)

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

**Search Parts in this Series**

54550Series





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

コネクタ位置  
CONNECTOR POSITION

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)

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 Z に対し上方向 OMAX.、下方向 0.15MAX.とし

相互のバラッキ量は0.1MAX.とする。  
MISALIGNMENT OF SOLDER TAILS AND FITTING NAILS FROM 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.

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35µmまたは50µm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:

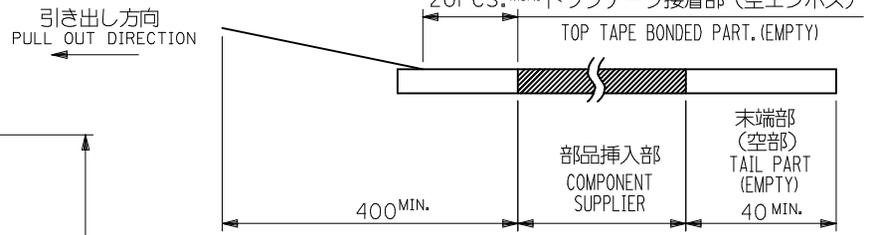
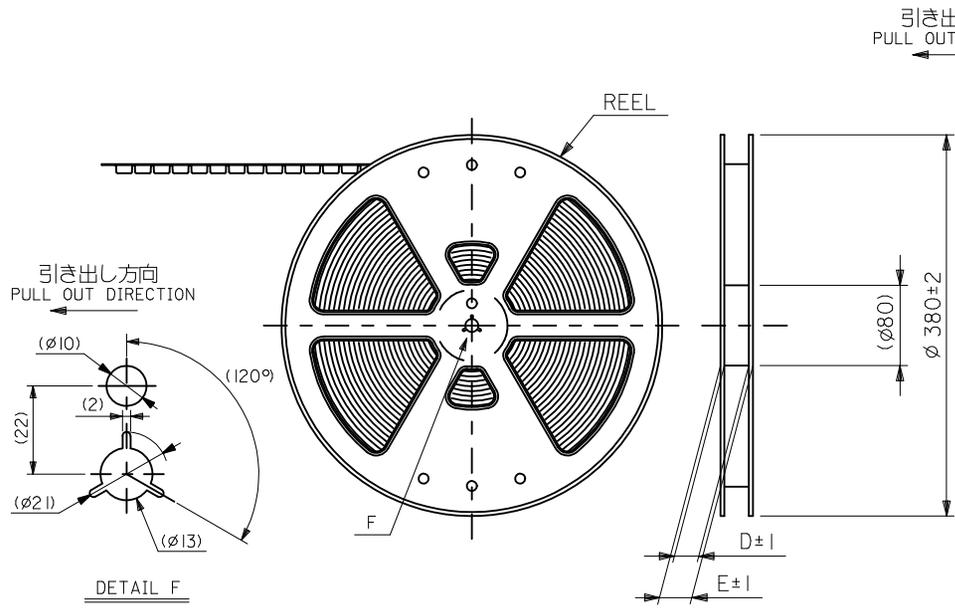
補強フィルム材質はポリイミドを推奨します。ベースフィルムは25µmを推奨します。  
接着剤は熱硬化接着剤を推奨します。  
尚、接着剤の接点部への付着は導通不良の原因になりますので、染み出しが無い様、お願い致します。

ABOUT FPC  
RECOMMENDED MATERIAL/THICKNESS.  
STIFFENER FILM : POLYIMIDE  
BASE FILM THICKNESS : 25µm  
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 2009/12/11 CHKD: SHIMOMIYAMA 2009/12/11 APPR: KMORIKAWA 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 0.5 FPC CONN. HSG ASSY FOR SMT RA U/CONTACT			
		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			
M	REV	ANGULAR ±3 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE SHEET 1		DOCUMENT NO. SD-54550-042		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									

NOTES

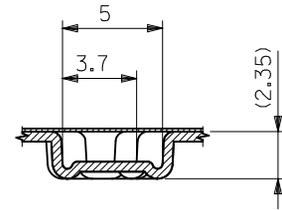
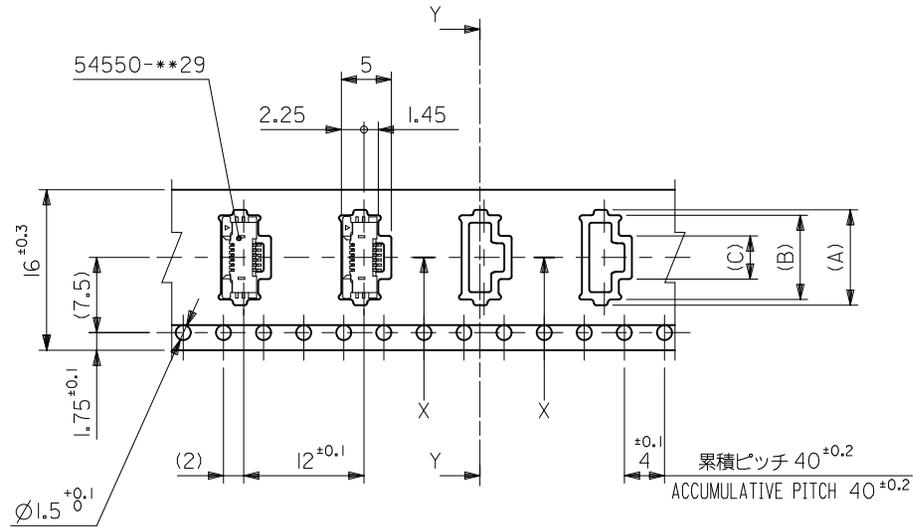
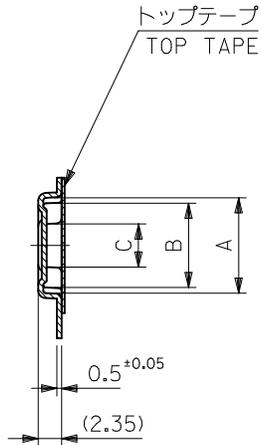
- 製品詳細寸法については図面 SD-54550-042 を参照下さい。  
RE DETAILED DIMENSION, SEE SD-54550-042.
- 梱包数量：3000個/リール  
NUMBER OF CONNECTORS : 3000PCS/REEL
- リードテープ長さ LEAD TAPE LENGTH



- 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 (TOPTAPE) : 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 (PS) <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: SHIMOMIYAMA 2009/12/11 APPR: KMORI KAWA 2009/12/14	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 2004/02/12			
	30 OVER	±0.3	APPROVED BY M. SASAO	DATE 2004/02/12	MOLEX INCORPORATED		
ANGULAR ±3 °		MATERIAL NO.	DOCUMENT NO.	SHEET NO.			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 1 OR 2		SD-54550-043		1 OF 3	
		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

引き出し方向  
PULL OUT DIRECTION



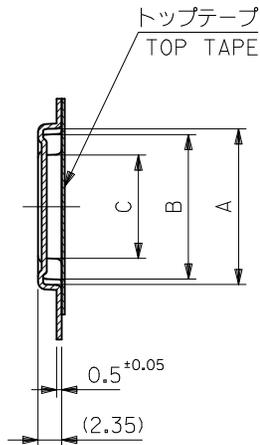
16mm幅キャリアテープ  
16mm WIDTH CARRIER TAPE

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

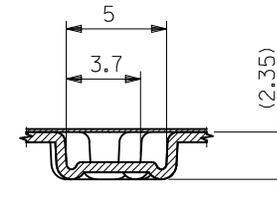
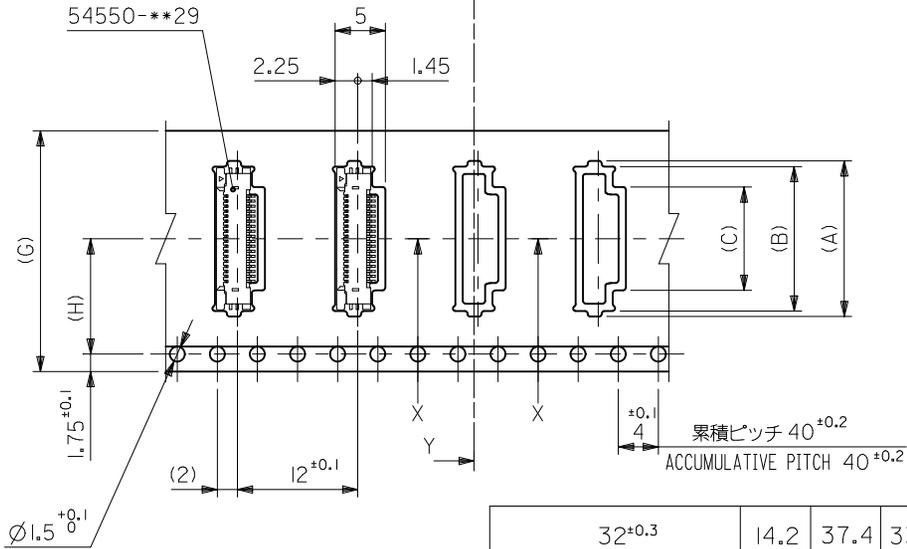
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	30 OVER	±0.3	APPROVED BY M. SASAO	DATE 2004/02/12	DOCUMENT NO. SD-54550-043		SHEET NO. 2 OF 3	
	ANGULAR ±3 °		MATERIAL NO. SEE TABLE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS								

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

24, 32mm幅キャリアテープ  
24mm, 32mm WIDTH CARRIER TAPE

24 <sup>±0.3</sup>	11.5	29.4	25.4	32 <sup>±0.3</sup>	14.2	37.4	33.4	14.3	18.4	19.5	54550-2671	26
				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+			

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ANGULAR	±3 °	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		