

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

**Part Number:** [0545482071](#)

**Status:** **Active**

**Overview:** [ffc fpc smt](#)

**Description:** 0.50mm (.020") Pitch FFC/FPC Connector, 1.20mm (.047") Height, Right Angle, SMT, ZIF, Bottom Contact Style, 20 Circuits, Lead-free, Gold Contact Plating

**Documents:**

[3D Model](#)

[Drawing \(PDF\)](#)

[Product Specification PS-54548-039 \(PDF\)](#)

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

**General**

Product Family	FFC/FPC Connectors
Series	<a href="#">54548</a>
Overview	<a href="#">ffc fpc smt</a>
Product Name	N/A

**Physical**

Circuits (Loaded)	20
Contact Position	Bottom
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

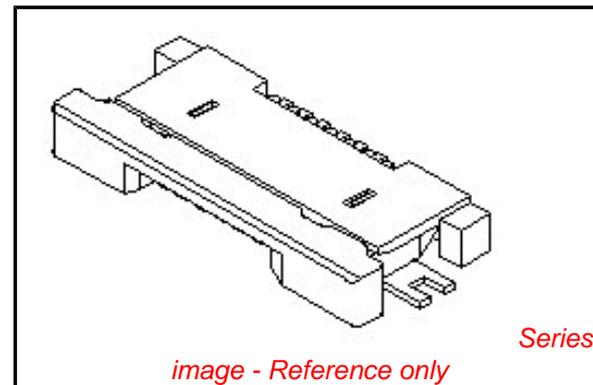
**Electrical**

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

**Material Info**

**Reference - Drawing Numbers**

Packaging Specification	SPK-54548-001
Product Specification	PS-54548-039, RPS-54548-083, RPS-54548-085, RPS-54548-091, RPS-54548-092, RPS-54548-097, RPS-54548-099
Sales Drawing	SD-54548-039, SD-54548-040



*image - Reference only*

**EU RoHS**

**ELV and RoHS  
Compliant**

**REACH SVHC**

Not Reviewed

**Halogen-Free**

**Status**

**Not Reviewed**

**China RoHS**



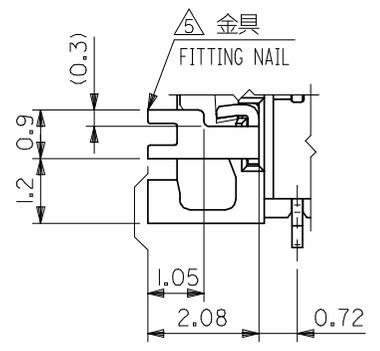
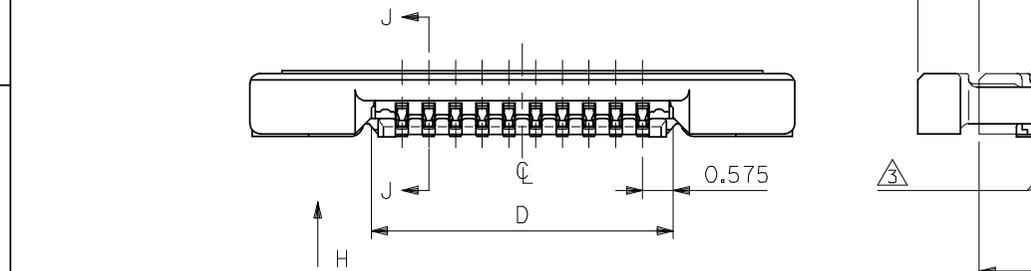
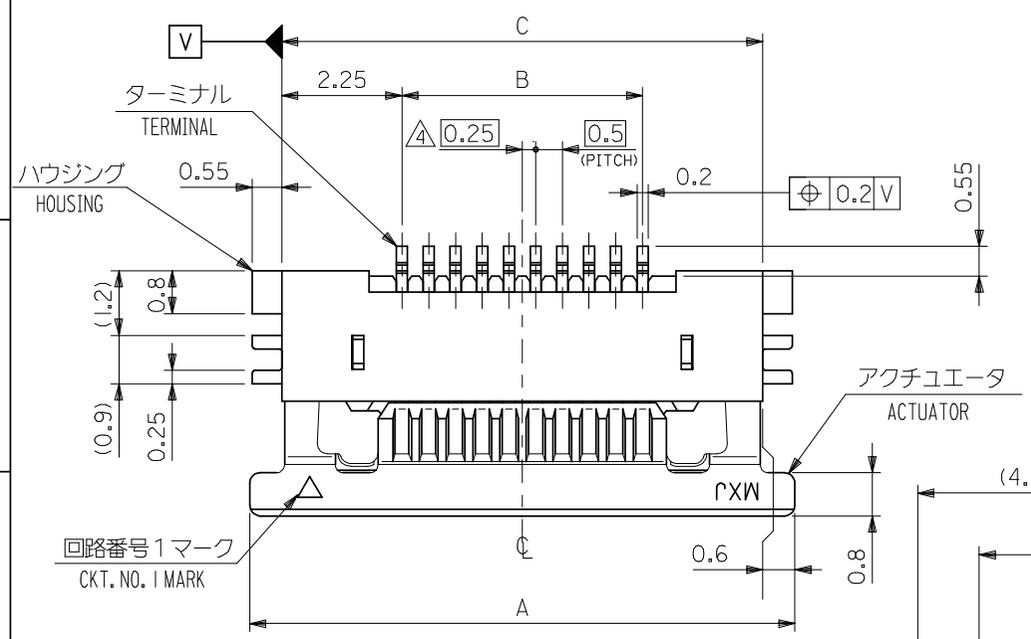
**Need more information on product  
environmental compliance?**

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

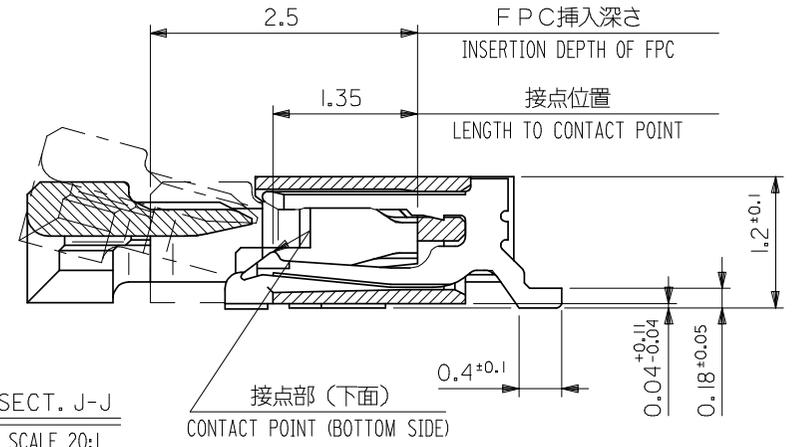
Please visit the [Contact Us](#) section for any  
non-product compliance questions.

**Search Parts in this Series**

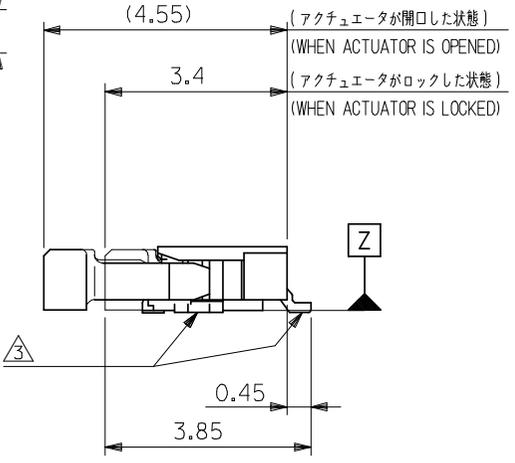
[54548Series](#)



VIEW H

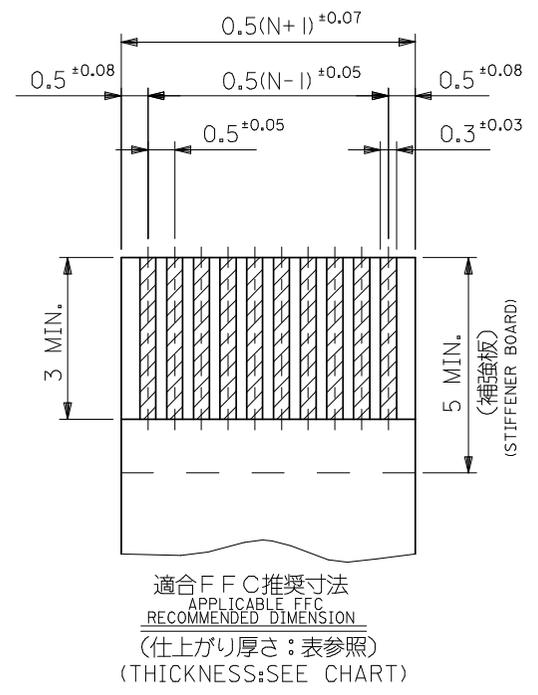
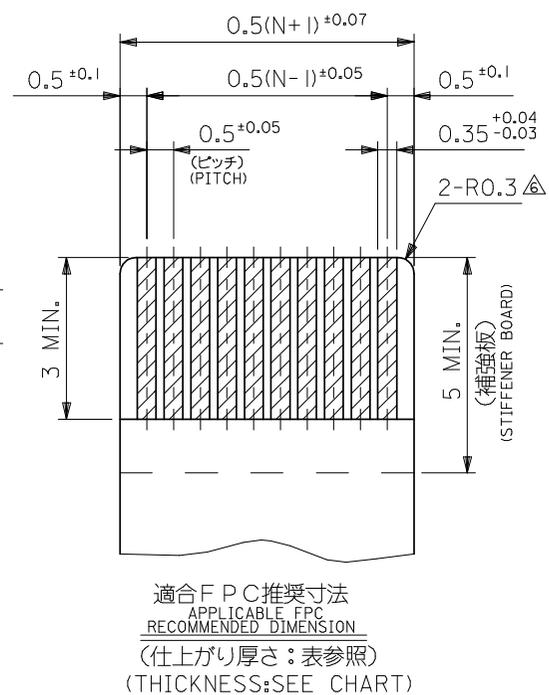
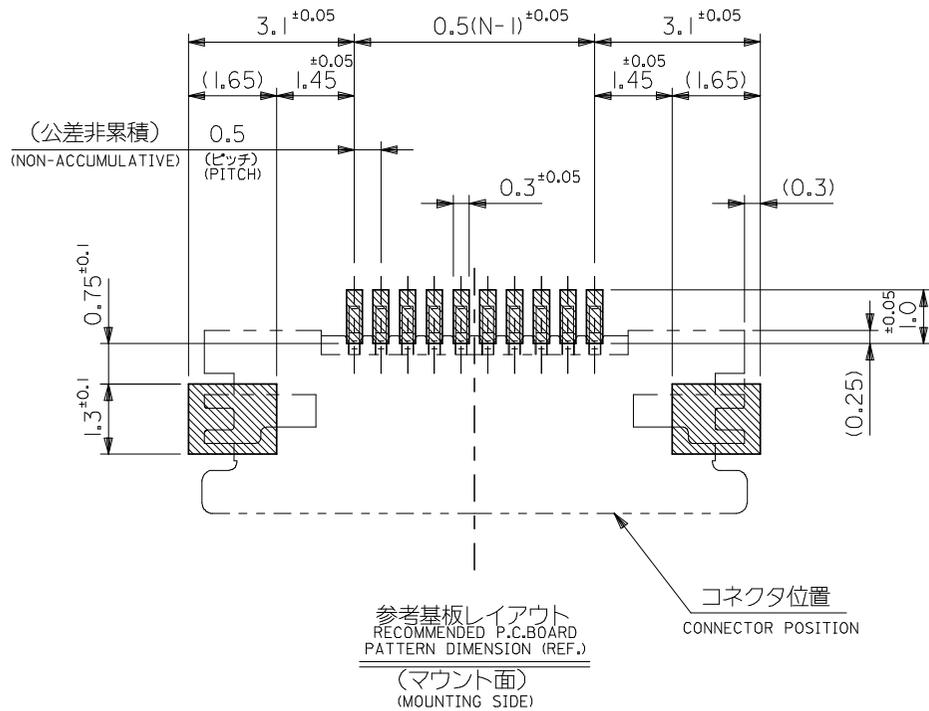


SECT. J-J  
SCALE 20:1



0.28±0.03	13.65	17.0	12.5	18.2	54548-2671	54548-2629	26
	12.65	16.0	11.5	17.2	54548-2471	54548-2429	24
	12.15	15.5	11.0	16.7	54548-2371	54548-2329	23
	11.65	15.0	10.5	16.2	54548-2271	54548-2229	22
	11.15	14.5	10.0	15.7	54548-2171	54548-2129	21
	10.65	14.0	9.5	15.2	54548-2071	54548-2029	20
	10.15	13.5	9.0	14.7	54548-1971	54548-1929	19
	9.65	13.0	8.5	14.2	54548-1871	54548-1829	18
	9.15	12.5	8.0	13.7	54548-1771	54548-1729	17
	8.65	12.0	7.5	13.2	54548-1671	54548-1629	16
	8.15	11.5	7.0	12.7	54548-1571	54548-1529	15
	7.65	11.0	6.5	12.2	54548-1471	54548-1429	14
	7.15	10.5	6.0	11.7	54548-1371	54548-1329	13
6.65	10.0	5.5	11.2	54548-1271	54548-1229	12	
6.15	9.5	5.0	10.7	54548-1171	54548-1129	11	
5.65	9.0	4.5	10.2	54548-1071	54548-1029	10	
5.15	8.5	4.0	9.7	54548-0971	54548-0929	9	
4.65	8.0	3.5	9.2	54548-0871	54548-0829	8	
4.15	7.5	3.0	8.7	54548-0771	54548-0729	7	
3.65	7.0	2.5	8.2	54548-0671	54548-0629	6	
3.15	6.5	2.0	7.7	54548-0571	54548-0529	5	
2.65	6.0	1.5	7.2	54548-0471	54548-0429	4	
FPC THICKNESS	D	C	B	A	EMBOSSED TAPE ORDER No. オータ-番別	製品番号 MATERIAL No.	極数 Ck+

REVISED EC NO: J2008-4048 DRWN:MNABEI 2008/06/13 CH'KD:THARUYAMA 2008/06/16 APPR:NUKITA 2008/06/16	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
			MM ONLY	10:1	METRIC		
	10 UNDER	±0.2	DRAWN BY	DATE	TITLE		
	10 OVER 30 UNDER	±0.25	HSHIMABUKURO	'04/02/10	0.5 FPC CONN ZIF HSG ASSY FOR SMT RA BTM CONT -LEAD FREE-		
	30 OVER	±0.3	CHECKED BY	DATE			
ANGULAR ±3°		APPROVED BY	DATE	MOLEX INCORPORATED			SHEET NO.
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MSASAO	'04/02/10	DOCUMENT NO. SD-54548-039			1 OF 2
		MATERIAL NO. SEE TABLE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			EN-02JA(021)



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.

注記 NOTES

- I. 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 (t=0.2)  
TERMINAL PHOSPOR BRONZE
- メッキ : 接点部:金メッキ  
PLATING CONTACT PORTION : GOLD PLATING
- テール部:錫メッキ  
SOLDERING PORTION : TIN OVER PLATING
- 下地:ニッケルメッキ  
UNDER PLATING:NICKEL PLATING
- 金具 :リン青銅、錫メッキ (t=0.2)  
FITTING NAIL PHOSPOR BRONZE, TIN PLATING
- 下地:ニッケルメッキ  
UNDER PLATING:NICKEL PLATING

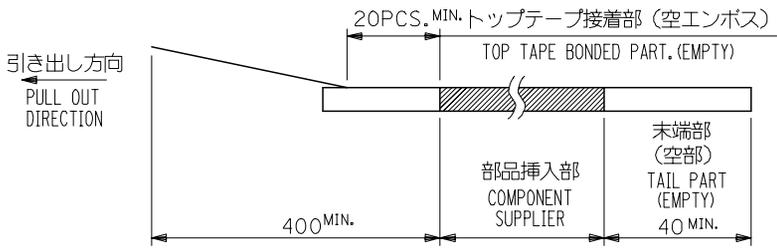
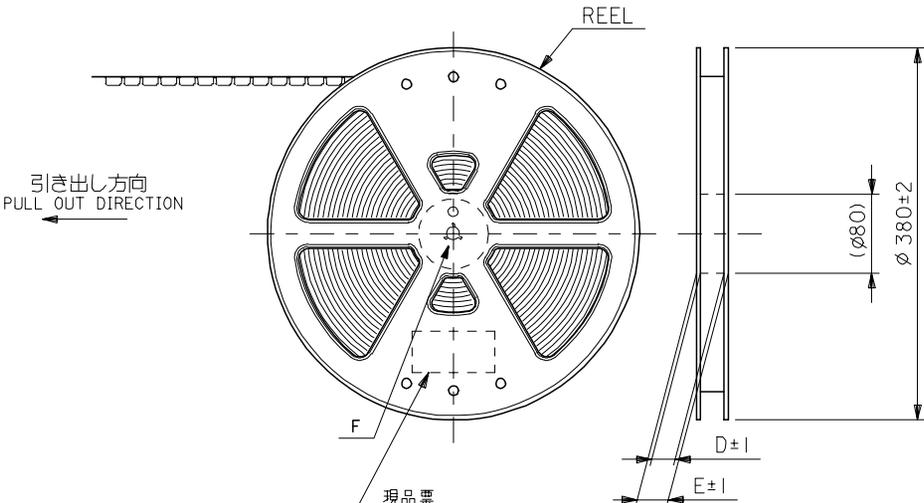
- △パターンはくり止め用金具  
FITTING NAIL FOR PREVENTION OF PEELING OF P.C.B. PATTERN.
- △RO.3はFPC導体部にかからないこと  
RO.3 MUST NOT BE OVERLAPPED TO PATTERN OF FPC.
- 7.本製品は54548-\*\*21の鉛フリー(部分金メッキ)品である。  
THIS PRODUCT IS LEAD FREE OF 54548-\*\*21 (SELECTIVE GOLD).
8. N: 極数 N: CIRCUIT.

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.54548-\*\*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 O.15MAX.とし  
相互のバラツキ量はO.1MAX.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.

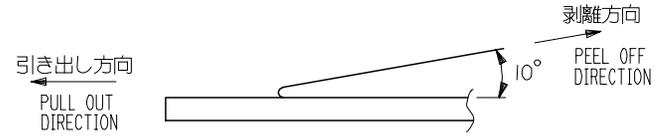
REVISED EC NO: J2008-4048 DRWN:WABEI 2008/06/13 CHKD:THARYAMA 2008/06/16 APPR:NUKITA 2008/06/16	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE ---	DESIGN UNITS METRIC	MODEL No. 54548-**29	THIRD ANGLE PROJECTION
	10 UNDER	±0.2	DRAWN BY HSHIMABUKURO	DATE '04/02/10	TITLE 0.5 FPC CONN ZIF HSG ASSY FOR SMT RA BTM CONT -LEAD FREE-		
	10 OVER 30 UNDER	±0.25	CHECKED BY KTOJO	DATE '04/02/10	MOLEX INCORPORATED		
	30 OVER	±0.3	APPROVED BY MSASAO	DATE '04/02/10	DOCUMENT NO. SD-54548-039		
	ANGULAR ±3		MATERIAL NO. SEE SHEET 1	DOCUMENT NO. SD-54548-039		SHEET NO. 2 OF 2	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

NOTES

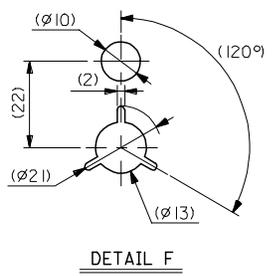
- 製品詳細寸法については図面 SD-54548-039 を参照下さい。  
RE DETAILED DIMENSION, SEE SD-54548-039
- 梱包数量：3000個/リール  
NUMBER OF CONNECTORS : 3000PCS/REEL
- リードテープ長さ LEAD TAPE LENGTH



- トップテープの剥離強度：0.1N ~ 1.3N(10gf ~ 130gf)  
(剥離方向は下図参照)  
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こと。)  
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.



- 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 54548-\*\*91 の鉛フリー(部分金メッキ)品である。  
THIS PRODUCT IS LEAD FREE OF 54548-\*\*91 (SELECTIVE GOLD).



REVISED EC NO: J2006-3468 DRAWN: HSHIMABUKURO 2006/05/17 CHECKED: KTOJO 2006/05/19 APPR: MSASAO 2006/05/25	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	54548-**71	MODEL No.	
	10 UNDER ±0.2		MM ONLY	---	DESIGN UNITS	THIRD ANGLE PROJECTION	
	10 OVER 30 UNDER ±0.25				METRIC	0.5 FPC CONN ZIF HSG ASSY RA BOTTOM CONTACT -LEAD FREE-	
	30 OVER ±0.3					MOLEX INCORPORATED	
	ANGULAR ±3 °				DOCUMENT NO.	SHEET NO.	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-54548-040	1 OF 4	
J	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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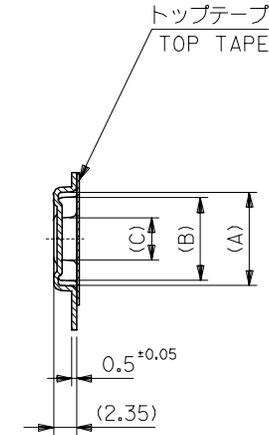
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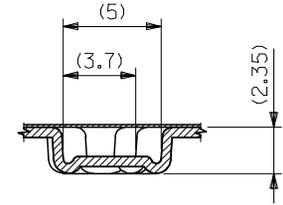
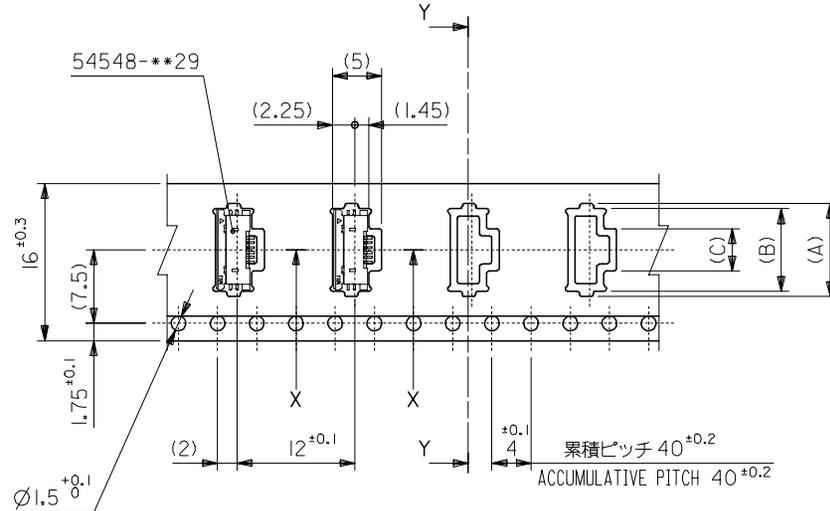
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引き出し方向  
PULL OUT DIRECTION



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	54548-0671	6
			3.8	7.9	9.0	54548-0571	5
			3.3	7.4	8.5	54548-0471	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 Ck+

REVISED EC NO: J2006-3468 DRW: MNABEI 2006/05/17 CHK: KTOYODA 2006/05/19 APPR: NUKITA 2006/05/25	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
	10 UNDER	± 0.2	DRAWN BY HSHIMABUKURO	DATE '04/02/10	TITLE 0.5 FPC CONN ZIF HSG ASSY RA BOTTOM CONTACT -LEAD FREE-		
	10 OVER 30 UNDER	± 0.25	CHECKED BY KTOJO	DATE '04/02/10	MOLEX INCORPORATED		
	30 OVER	± 0.3	APPROVED BY MSASAO	DATE '04/02/10	DOCUMENT NO. SD-54548-040		
	ANGULAR	± 3 °	MATERIAL NO. SEE CHART		SHEET NO. 2 OF 4		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

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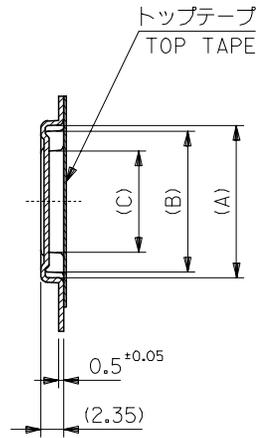
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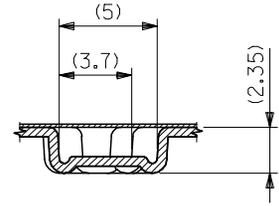
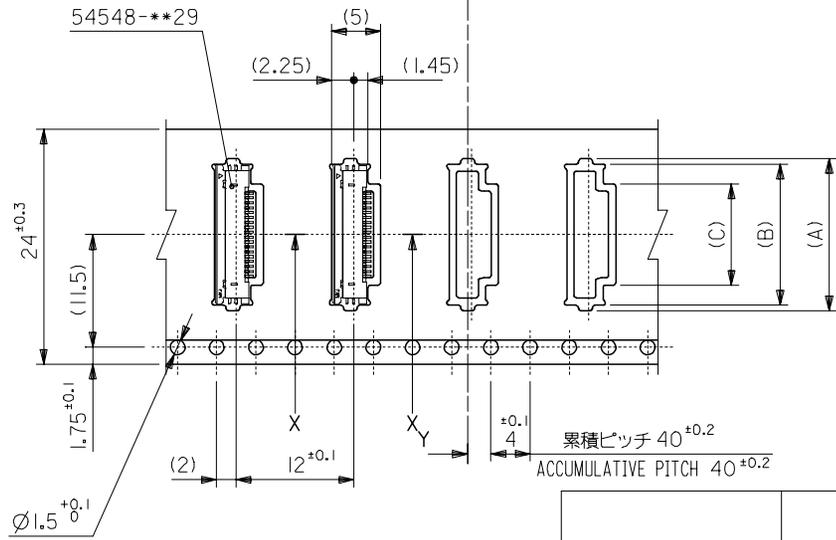
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10 9 8 7 6 5 4 3 2 1

引き出し方向  
PULL OUT DIRECTION



SECT. Y-Y



SECT. X-X

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

累積ピッチ 40 ± 0.2  
ACCUMULATIVE PITCH 40 ± 0.2

24	29.4	25.4	12.3	16.4	17.5	54548-2271	22		
			11.8	15.9	17.0	54548-2171	21		
			11.3	15.4	16.5	54548-2071	20		
			10.8	14.9	16.0	54548-1971	19		
			10.3	14.4	15.5	54548-1871	18		
			9.8	13.9	15.0	54548-1771	17		
			9.3	13.4	14.5	54548-1671	16		
			8.8	12.9	14.0	54548-1571	15		
			8.3	12.4	13.5	54548-1471	14		
			7.8	11.9	13.0	54548-1371	13		
			7.3	11.4	12.5	54548-1271	12		
			6.8	10.9	12.0	54548-1171	11		
			6.3	10.4	11.5	54548-1071	10		
			5.8	9.9	11.0	54548-0971	9		
			5.3	9.4	10.5	54548-0871	8		
4.8	8.9	10.0	54548-0771	7					
キャリアテープ幅 CARRIER TAPE WIDTH			E	D	(C)	(B)	(A)	製品番号 MATERIAL No.	極数 Ck+

REVISED EC NO: J2006-3468 DRW: MABEI 2006/05/17 CHK: KTOYODA 2006/05/19 APPR: NUKITA 2006/05/25	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
	10 UNDER	± 0.2	DRAWN BY HSHIMABUKURO	DATE '04/02/10	TITLE 0.5 FPC CONN ZIF HSG ASSY RA BOTTOM CONTACT -LEAD FREE-				
	10 OVER 30 UNDER	± 0.25	CHECKED BY KTOJO	DATE '04/02/10	APPROVED BY MSASAO				
	30 OVER	± 0.3	APPROVED BY MSASAO		DATE '04/02/10	MATERIAL NO. SEE CHART			
	ANGULAR	± 3 °	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DOCUMENT NO. SD-54548-040		SHEET NO. 3 OF 4		

10 9 8 7 6 5 4 3 2 1

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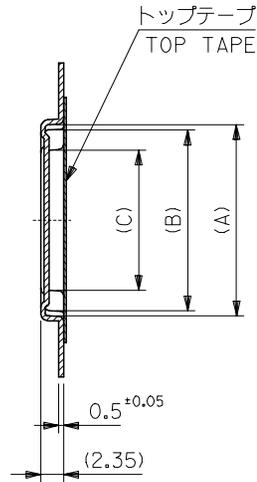
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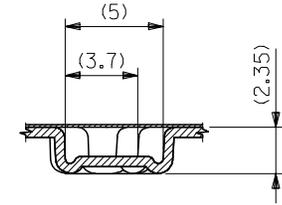
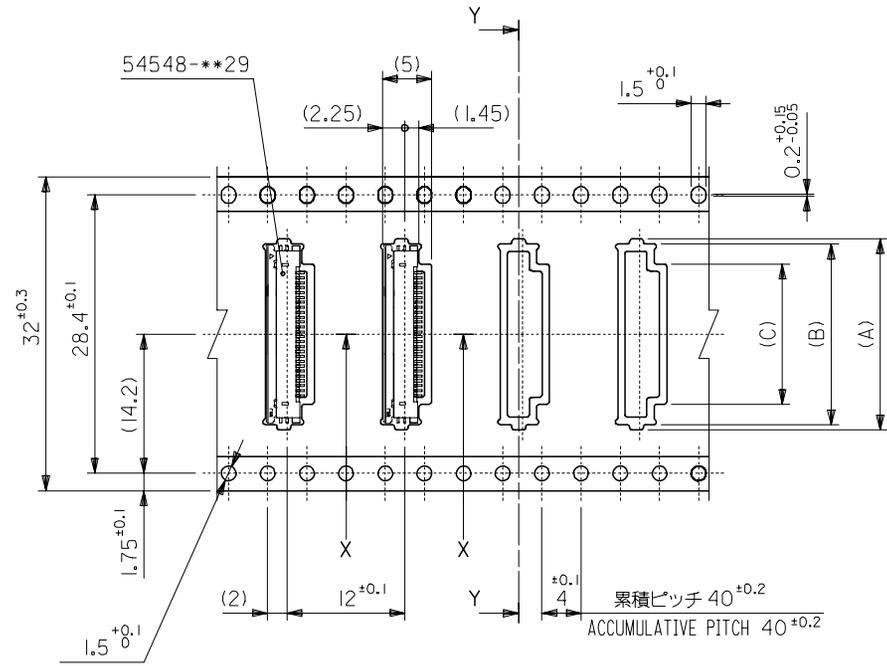
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引き出し方向  
PULL OUT DIRECTION



SECT. Y-Y



SECT. X-X

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

32	37.4	33.4	14.3	18.4	19.5	54548-2671	26
			13.3	17.4	18.5	54548-2471	24
			12.8	16.9	18.0	54548-2371	23
キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(C)	(B)	(A)	製品番号 MATERIAL No.	極数 Ck+

REVISED EC NO: J2006-3468 DRWN: NABEI 2006/05/17 CHKD: KTOYODA 2006/05/19 APPR: NUKITA 2006/05/25	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
	10 UNDER	± 0.2	DRAWN BY HSHIMABUKURO	DATE '04/02/10	TITLE 0.5 FPC CONN ZIF HSG ASSY RA BOTTOM CONTACT -LEAD FREE-		
	10 OVER 30 UNDER	± 0.25	CHECKED BY KTOJO	DATE '04/02/10	MOLEX INCORPORATED		
	30 OVER	± 0.3	APPROVED BY MSASAO	DATE '04/02/10	DOCUMENT NO. SD-54548-040		
	ANGULAR	± 3 °	MATERIAL NO. SEE CHART		SHEET NO. 4 OF 4		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

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