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Part Number: 0545481171
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, 11 Circuits, Lead-free, Gold (Au) Plating

Documents:
[3D Model](#)
[Drawing \(PDF\)](#)
[Product Specification PS-54548-039 \(PDF\)](#)
[RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family FFC/FPC Connectors
Series 54548
Overview ffc_fpc_smt
Product Name N/A

Physical

Circuits (Loaded) 11
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-54548-097, RPS-54548-099
Sales Drawing SD-54548-039, SD-54548-040

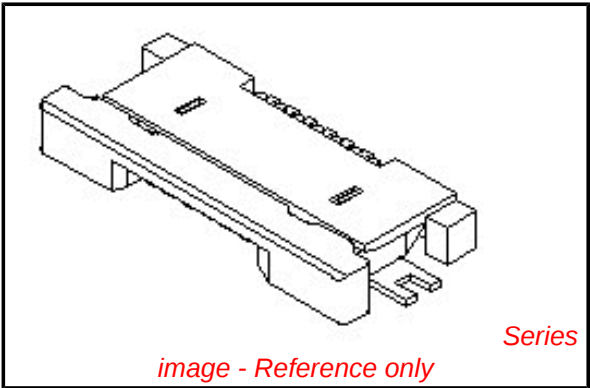


image - Reference only

EU RoHS

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

China RoHS

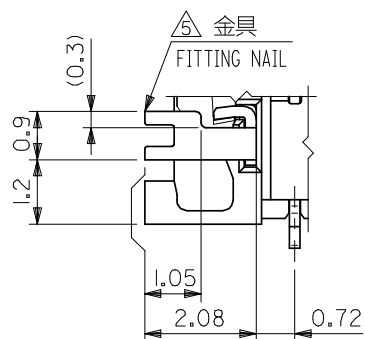
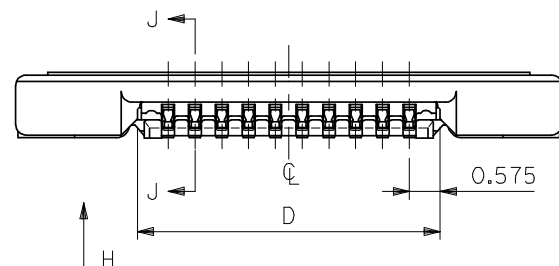
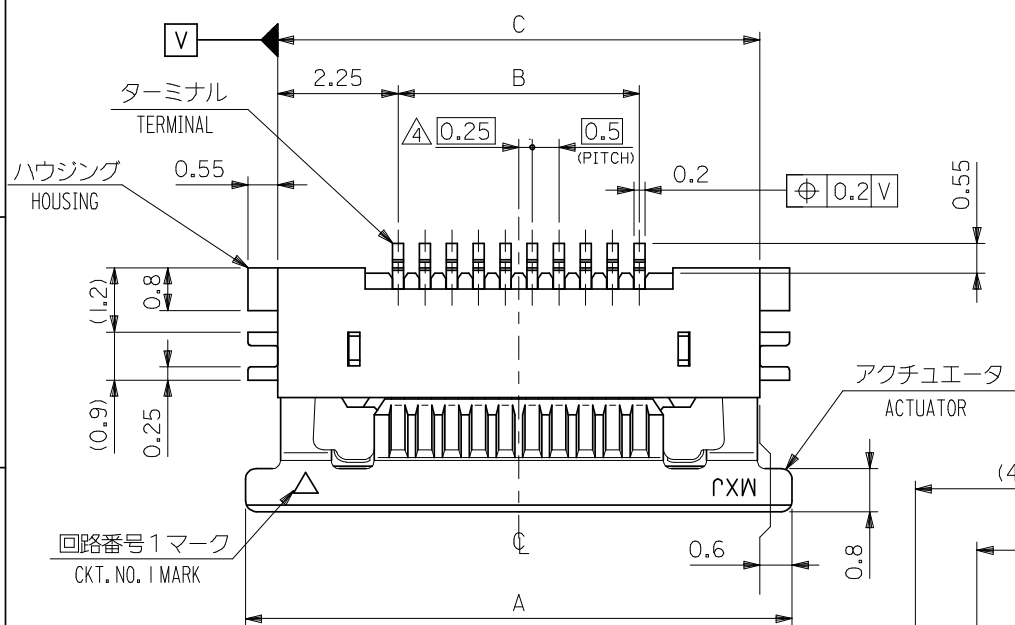


Need more information on product
environmental compliance?

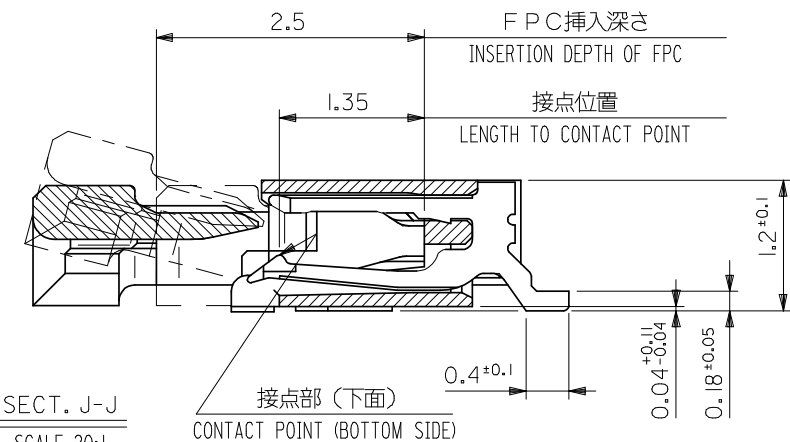
Email productcompliance@molex.com
For a multiple part number RoHS Certificate of
Compliance, [click here](#)

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

Search Parts in this Series
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
0.3±0.03	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	EMBOSSD TAPE ORDER No. オーダー番号	製品番号 MATERIAL No.	極数 Ck+

54548-**29	MODEL No.
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DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
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0.5 FPC CONN ZIF HSG
ASSY FOR SMT RA BTM CONT
-LEAD FREE-

MOLEX INCORPORATED

DOCUMENT NO.	SHEET NO.
SD-54548-039	1 OF 2

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

REVISED	EC NO: J2008-4048	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)	
	DRWN:WABEI		10 UNDER	± 0.2
	CH'KD: THIRUYAMA		10 OVER 30 UNDER	± 0.25
	APPR: NUKITA		30 OVER	± 0.3
			ANGULAR	± 3 °
		REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

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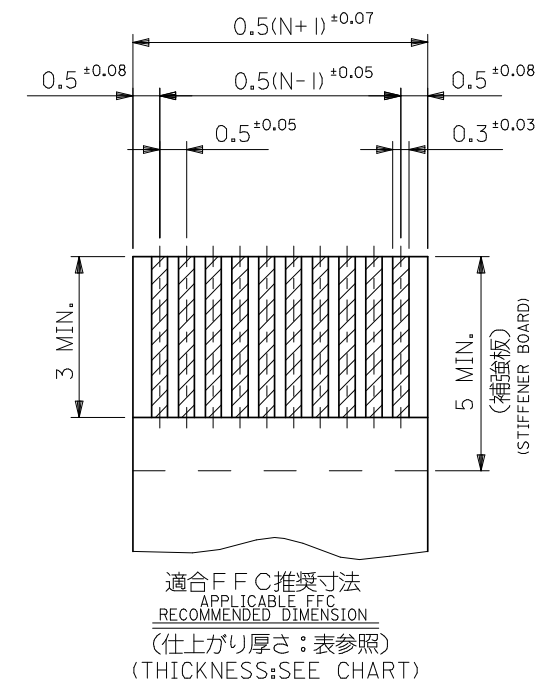
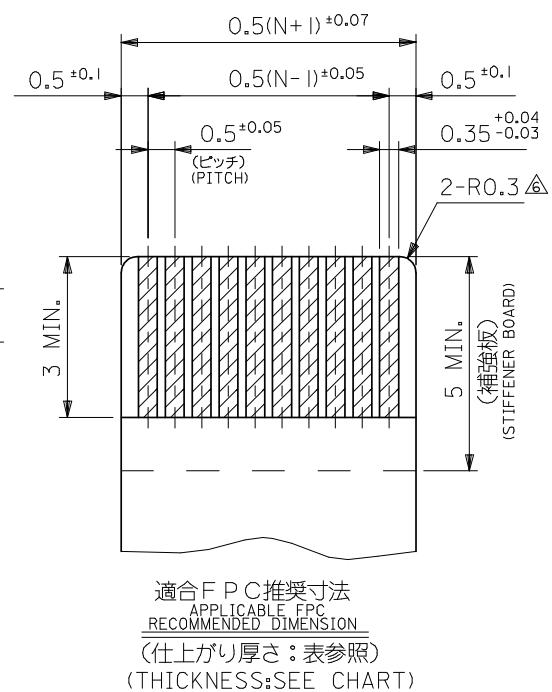
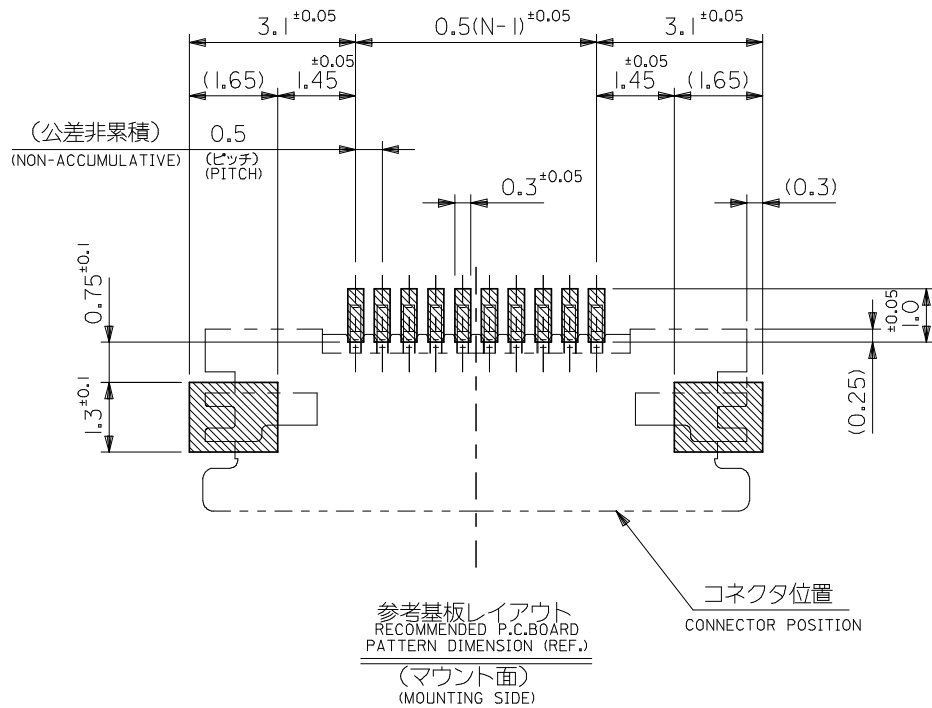
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注記 NOTES

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: 鍍メッキ
TAIL PORTION : TIN OVER PLATING

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

金具 : リン青銅、鍍メッキ (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.

△ R0.3はFPC導体部にかからないこと
R0.3 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
に對し上方 OMAX.、下方 O.15MAX. とし
相互のバツキ量は O.1MAX. とする。
MISALIGNMENT OF SOLDER TAILS AND FITTING NAILS FROM Z
UPPER DIRECTION: O MAX., LOWER DIRECTION: O.15 MAX.
OFFSET BETWEEN UPPER AND LOWER O.1 MAX.

△ 偶数極に適用。
APPLY FOR EVEN CIRCUIT.

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: J2008-4048 DRWN:WABEI CHKD:THARUYAMA APPR:NUKITA	DESCRIPTION	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 FOR SMT RA BTM CONT -LEAD FREE-			
		10 OVER 30 UNDER	±0.25	CHECKED BY KTOJO	DATE '04/02/10				
		30 OVER	±0.3	APPROVED BY MSASAO	DATE '04/02/10	 MOLEX INCORPORATED			
		ANGULAR ±3 °		MATERIAL NO. SEE SHEET 1		DOCUMENT NO. SD-54548-039		SHEET NO. 2 OF 2	
	REV	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					

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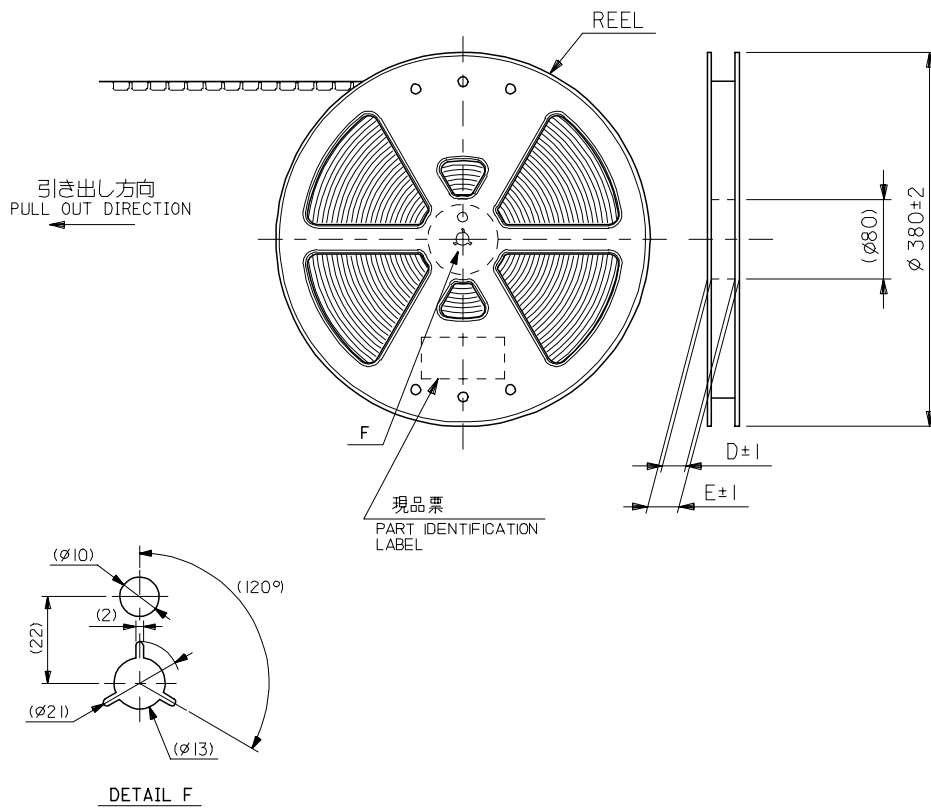
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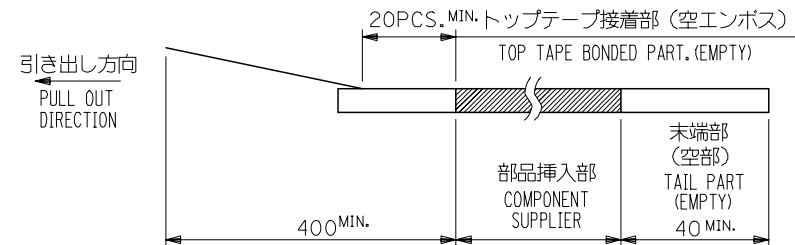
B

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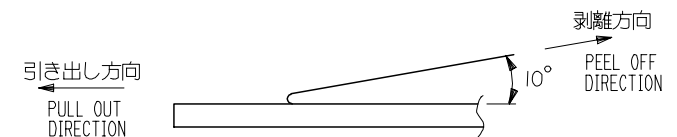


NOTES

- 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

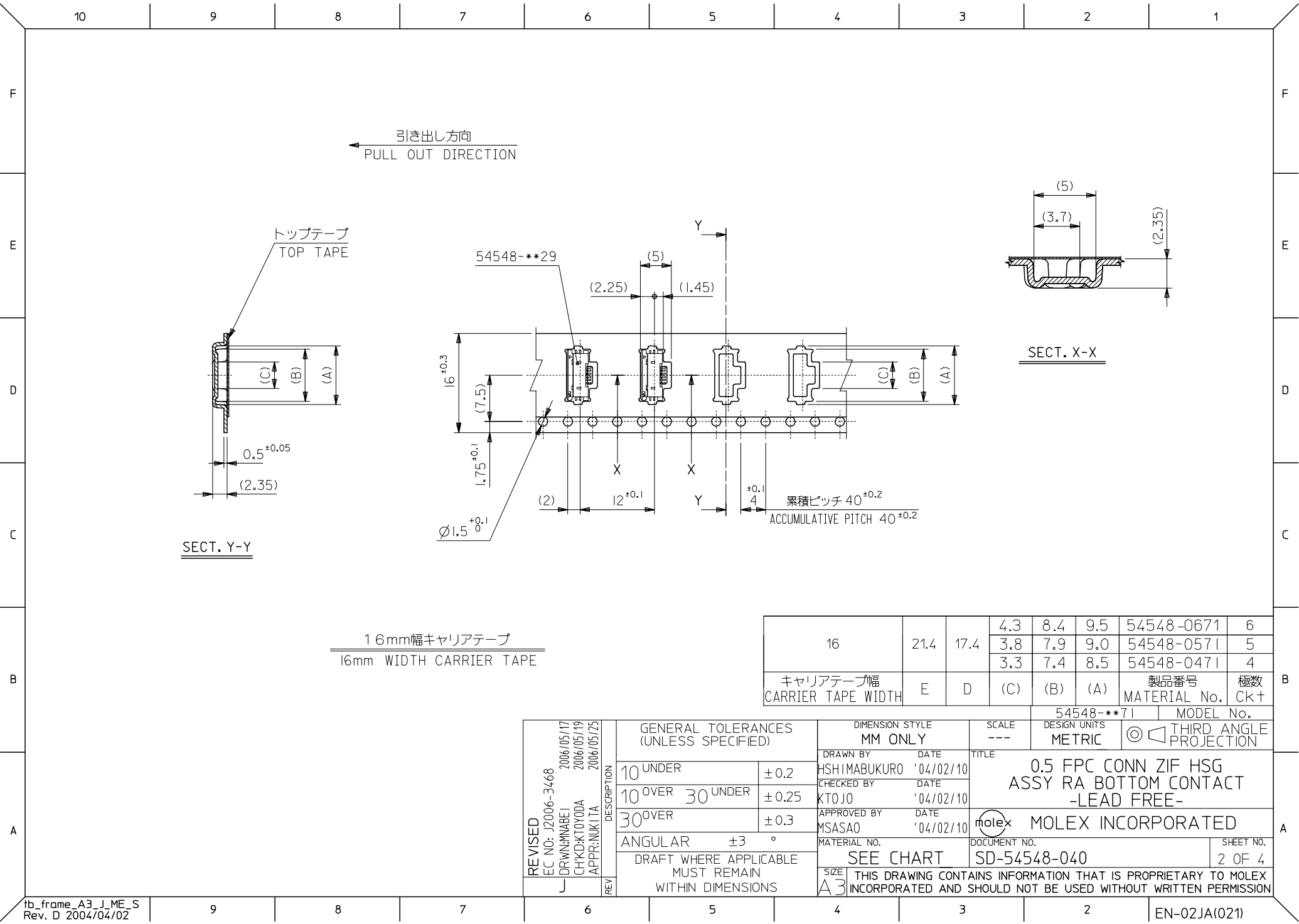


- トップテープの剥離強度：0.1N ～ 1.3N(10gf ～ 130gf)
(剥離方向は下図参照)
尚、本規格値は出荷時に適用。(但し、輸送時に剥離が発生しないこと。)
PEELING OFF FORCE OF TOP TAPE : 0.1N ～ 1.3N(10gf ～ 130gf)
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)
THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT.
PEEL OFF SHOULD NOT BE ALLOWED , DURING TRANSPORTATION.



- 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 (PS) <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).

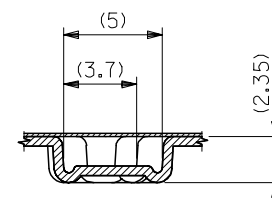
REVISED EC NO: J2006-3468 DRAWN BY: 2006/05/17 CHKD BY: 2006/05/19 APPR: 2006/05/25	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE ---	54548-**71 DESIGN UNIT'S METRIC	MODEL No. THIRD ANGLE PROJECTION
	10 UNDER	± 0.2	DRAWN BY HSHIMABUKURO	DATE '04/02/10	TITLE 0.5 FPC CONN ZIF HSG ASSY RA BOTTOM CONTACT -LEAD FREE-	
	10 OVER 30 UNDER	± 0.25	CHECKED BY KTOJO	DATE '04/02/10		
	30 OVER	± 0.3	APPROVED BY MSASAO	DATE '04/02/10	MOLEX INCORPORATED	
J	ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO. SD-54548-040	SHEET NO. 1 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	



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 DRAWN: NABEJ CHKD: KTOYODA APPR: NUKITA J	DESCRIPTION 2006/05/17 2006/05/19 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					
		30 OVER	± 0.3	APPROVED BY MSASAO	DATE '04/02/10	MOLEX MOLEX INCORPORATED				
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-54548-040		2 OF 4		
	REV				SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				



SECT. Y-Y

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-1

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

REVISED	EC NO: J2006-3468				2006/05/17		2006/05/19		2006/05/25		2006/05/25	
	DRAWN:MABEI				CHKD:K TOYODA		APPR:NUKITA					
	DESCRIPTION				GENERAL TOLERANCES (UNLESS SPECIFIED)				DIMENSION STYLE MM ONLY			
	10 UNDER				± 0.2				DRAWN BY DATE HSH / MABUKURO '04/02/10			
	10 OVER 30 UNDER				± 0.25				CHECKED BY DATE KTOJO '04/02/10			
	30 OVER				± 0.3				APPROVED BY DATE MSASAO '04/02/10			
	ANGULAR ±3 °								MATERIAL NO.			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS								SEE CHART				
REV								SD-54548-040				
				A3				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

