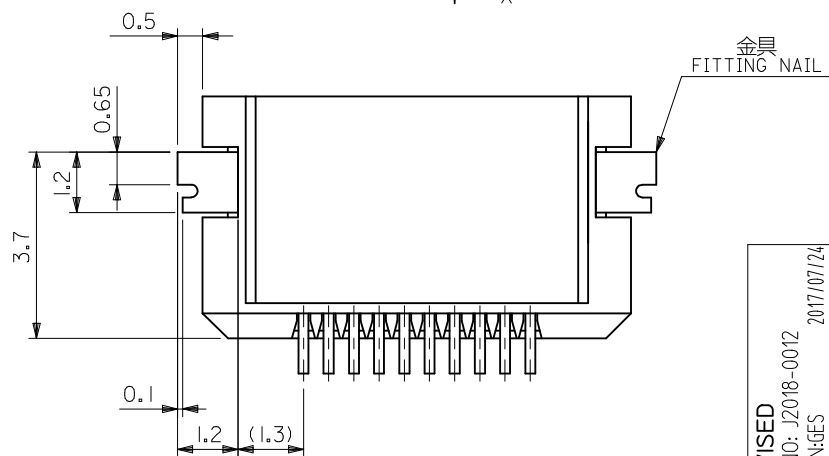
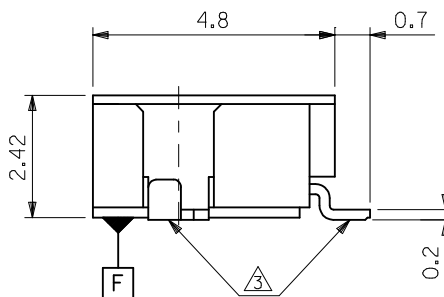
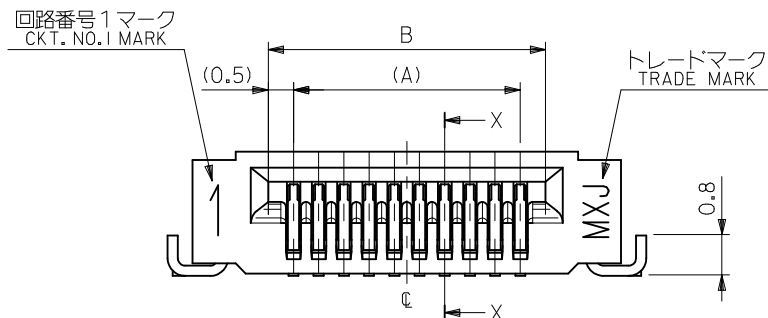
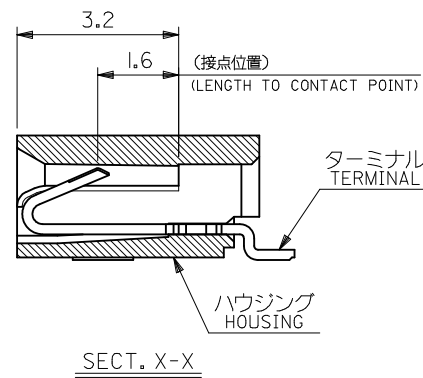
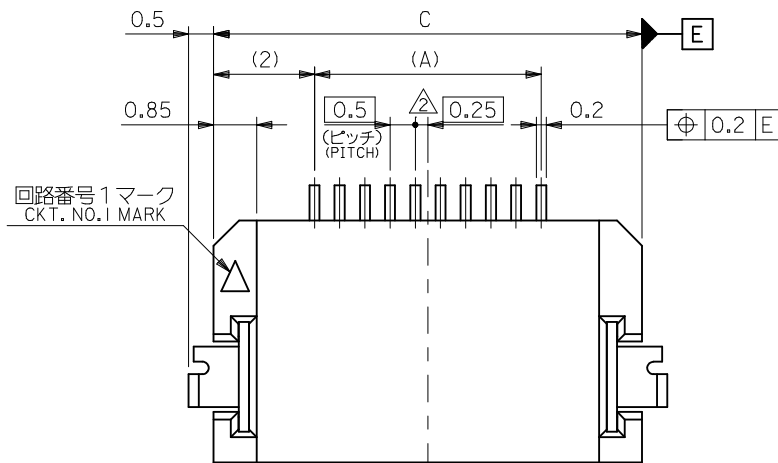


10 9 8 7 6 5 4 3 2 1



注記 NOTES

1. 材質 MATERIAL

ハウジング: PPS, UL94V-0
HOUSING: PPS, UL94V-0
ターミナル: リン青銅 (t=0.2)、ニッケル下地 錫ビスマスメッキ
TERMINAL: PHOS-BRO.(t=0.2), TIN-BISMUTH OVER NICKEL PLATING
金具: リン青銅 (t=0.2)、ニッケル下地 錫メッキ
FITTING NAIL: PHOS-BRO.(t=0.2), TIN OVER NICKEL PLATING
HARF BRIGHT PLATING

偶数極に適用。

APPLY FOR EVEN CIRCUIT.

ソルダーテール半田付け面及び金具半田付け面のズレ量は、基準面 F 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 F : UPPER DIRECTION 0.1 MAX.

: LOWER DIRECTION 0.15 MAX.

5. 本製品は 52976-***40 の鉛フリー品である。

THIS PRODUCT IS LEAD FREE OF 52976-***40

18.5	15.5	14.5	52976-3072	52976-3049	30
15.5	12.5	11.5	-2472	-2449	24
12.5	9.5	8.5	-1872	-1849	18
11.5	8.5	7.5	-1672	-1649	16
8.5	5.5	4.5	-1072	-1049	10
8.0	5.0	4.0	-0972	-0949	9
7.5	4.5	3.5	52976-0872	52976-0849	8

C	B	A	EMBOSSED TAPE PKG. ORDER No. オーダー番号	MATERIAL NO. 極数 NO. OF CKT.
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REVISED EC NO: J2018-0012 DRAWN:GES CHKD: APPR:MSASAO	DESCRIPTION 2017/07/24 2017/07/28	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		0.25 UNDER			DRAWN BY		TITLE 0.5 FFC/FPC CONN NON-ZIF HSG ASSY(BOTTOM CONTACT) -LEAD FREE- molex			
		0.25 OVER 0.5 UNDER			DATE					
		0.5 OVER 1.0 UNDER			CHECKED BY					
		0 OVER 10 UNDER			DATE					
		10 OVER 30 UNDER			APPROVED BY					
		30 OVER			M.SASAO		DOCUMENT NO. SD-52976-010		SHEET NO. 1 OF 2	
		ANGULAR ±3 °			MATERIAL NO.					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

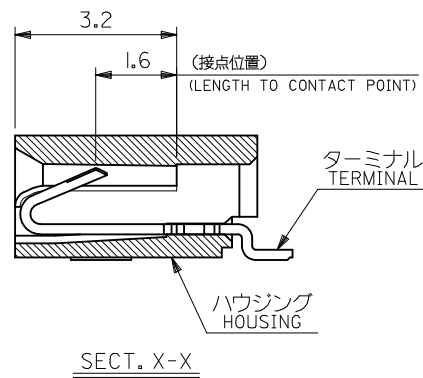
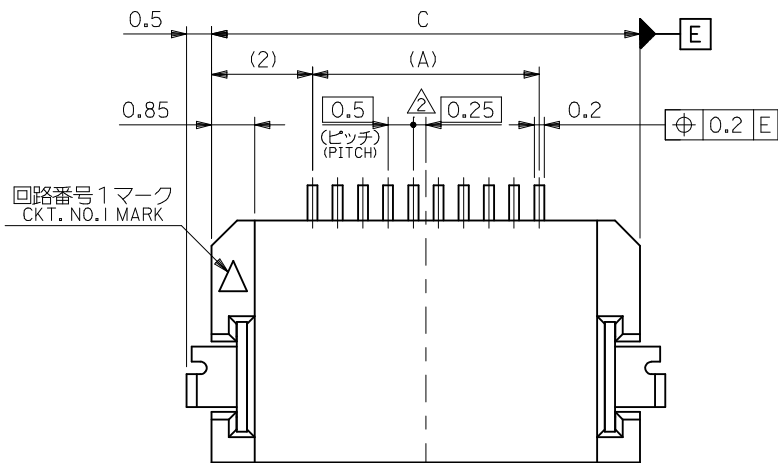
0.5 FFC/FPC CONN NON-ZIF
HSG ASSY(BOTTOM CONTACT)
-LEAD FREE-

molex

SD-52976-010

SHEET NO.
1 OF 2

10 9 8 7 6 5 4 3 2 1



注記 NOTES

1. 材質 MATERIAL

ハウジング: PPS, UL94V-0
HOUSING: PPS, UL94V-0
ターミナル: リン青銅 ($t=0.2$)、ニッケル下地 錫ビスマスメッキ
TERMINAL: PHOS-BRO. ($t=0.2$), TIN-BISMUTH OVER NICKEL PLATING
金具: リン青銅 ($t=0.2$)、ニッケル下地 錫メッキ
FITTING NAIL: PHOS-BRO. ($t=0.2$), TIN OVER NICKEL PLATING
HARF BRIGHT PLATING

偶数極に適用。

APPLY FOR EVEN CIRCUIT.

ソルダーテール半田付け面及び金具半田付け面のズレ量は、

基準面 F に対し、上方向 0.1 MAX.

下方向 0.15 MAX. とする。

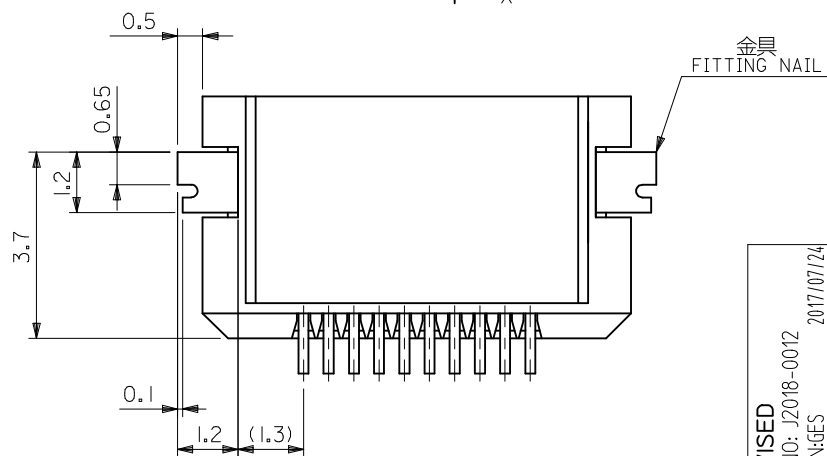
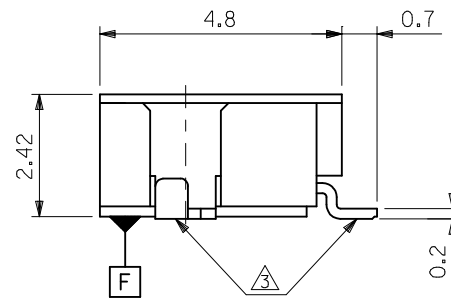
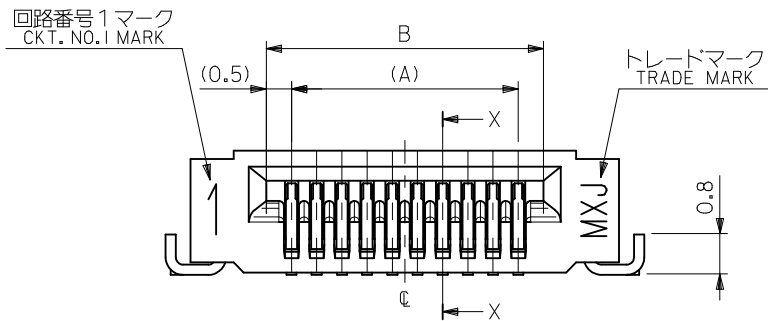
MISALIGNMENT OF SOLDER TAILS AND FITTING NAILS

FROM F : UPPER DIRECTION 0.1 MAX.


: LOWER DIRECTION 0.15 MAX.

5. 本製品は 52976-***40 の鉛フリー品である。

THIS PRODUCT IS LEAD FREE OF 52976-***40



18.5	15.5	14.5	52976-3072	52976-3049	30
15.5	12.5	11.5	-2472	-2449	24
12.5	9.5	8.5	-1872	-1849	18
11.5	8.5	7.5	-1672	-1649	16
8.5	5.5	4.5	-1072	-1049	10
8.0	5.0	4.0	-0972	-0949	9
7.5	4.5	3.5	52976-0872	52976-0849	8
C	B	A	EMBOSSED TAPE PKG. ORDER No. オーダー番号	MATERIAL NO.	極数 NO. OF CKT.

REVISED EC NO: J2018-0012 DRAWINGS CHKD: APPR:MSASAO	DESCRIPTION 2017/07/24 2017/07/28	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION			
		0.25 UNDER ±			DRAWN BY DATE		TITLE 0.5 FFC/FPC CONN NON-ZIF HSG ASSY(BOTTOM CONTACT) -LEAD FREE-					
		0.25 OVER 0.5 UNDER ±			HSHIMABUKURO '04/03/01							
		0.5 OVER 1.0 UNDER ±			CHECKED BY DATE							
		0 OVER 10 UNDER ±0.2			K.TOJO '04/03/01							
		10 OVER 30 UNDER ±0.25			APPROVED BY DATE							
		30 OVER ±0.3			M.SASAO '04/03/01							
		ANGULAR ±3 °			MATERIAL NO.		DOCUMENT NO.				SHEET NO.	
					SEE TABLE		SD-52976-010				1 OF 2	
			REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

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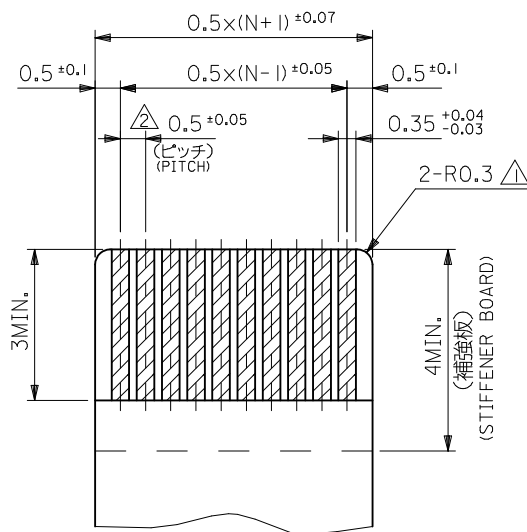
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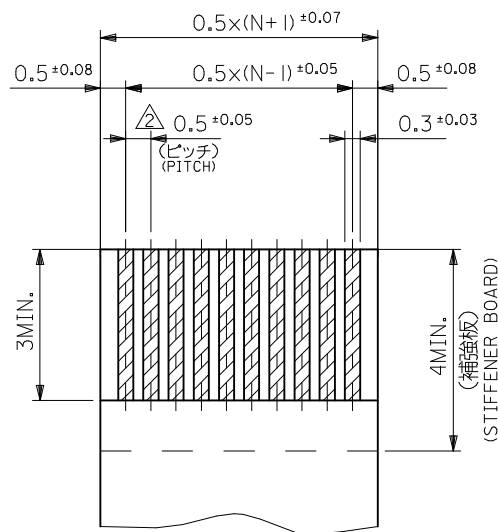
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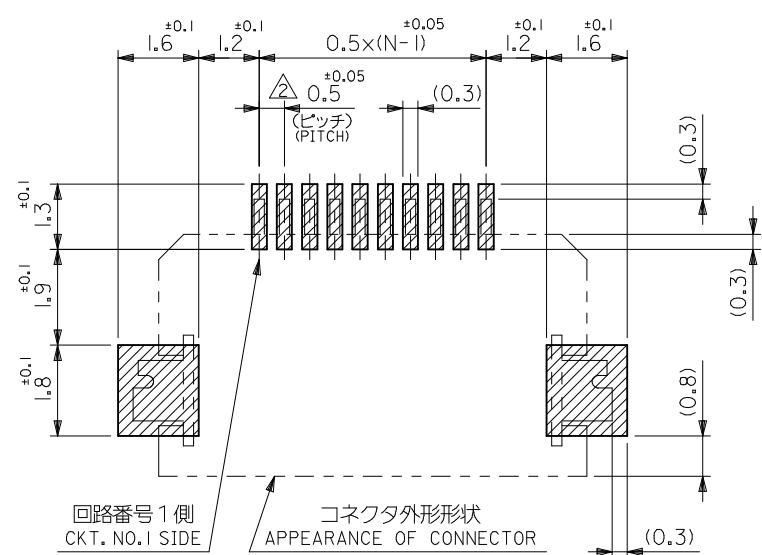
適合FPC推奨寸法
APPLICABLE FPC
RECOMMENDED DIMENSION

(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)



参考基板レイアウト
REFERENCE P.C.BOARD
PATTERN DIMENSION

(マウント面)
(MOUNTING SIDE)

注記 NOTES

- △ R0.3 は、FPCの導体部にかからないこと。
R0.3 MUST NOT BE OVERLAPPED TO PATTERN OF FPC.

- △ 公差非累積のこと。
NON-ACCUMULATIVE.

3. FPCについて:

打抜き方向は導体側から補強板を推奨致します。
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

REVISED EC NO: J2018-0012 DRAWINGS CHKD: APPR:MSASAO	DESCRIPTION 2017/07/24 2017/07/28	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		0.25 UNDER ±			DRAWN BY	DATE	TITLE 0.5 FFC/FPC CONN NON-ZIF HSG ASSY(BOTTOM CONTACT) -LEAD FREE-				
		0.25 OVER 0.5 UNDER ±			HS HIMABUKURO	'04/03/01					
		0.5 OVER 1.0 UNDER ±			CHECKED BY	DATE					
		0 OVER 10 UNDER ±0.2			K. TOJO	'04/03/01	molex				
		10 OVER 30 UNDER ±0.25			APPROVED BY	DATE					
		30 OVER ±0.3			M. SASAO	'04/03/01					
		ANGULAR ±3 °			MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
					SEE SHEET 1		SD-52976-010		2 OF 2		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

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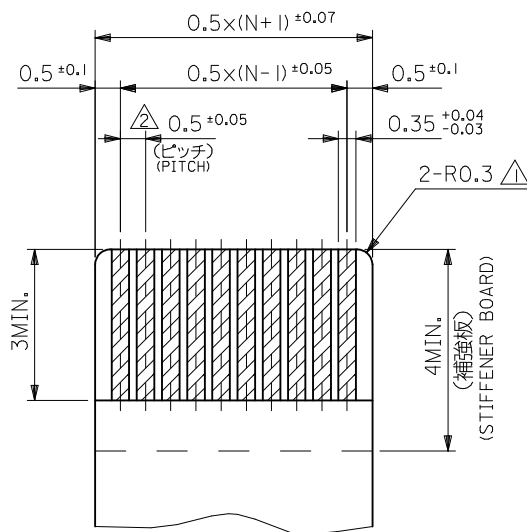
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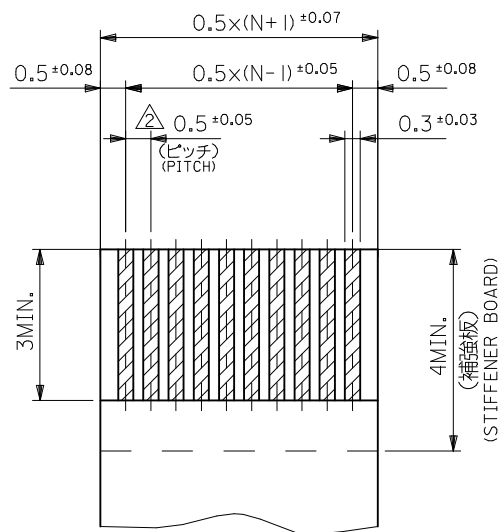
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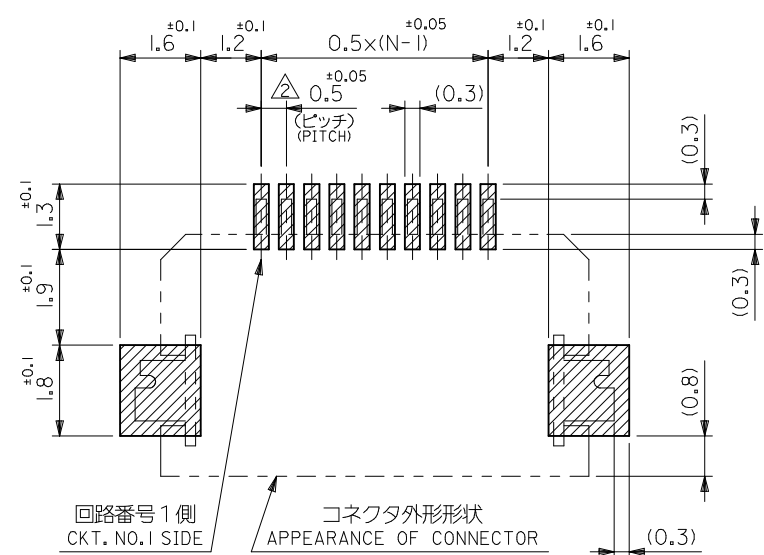
適合FPC推奨寸法
APPLICABLE FPC
RECOMMENDED DIMENSION

(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)



参考基板レイアウト
REFERENCE P.C.BOARD
PATTERN DIMENSION

(マウント面)
(MOUNTING SIDE)

注記 NOTES

△ R0.3 は、FPCの導体部にかからないこと。
R0.3 MUST NOT BE OVERLAPPED TO PATTERN OF FPC.

△ 公差非累積のこと。
NON-ACCUMULATIVE.

3. FPCについて:

打抜き方向は導体側から補強板を推奨致します。
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

52976-**49 | MODEL NO.

DESIGN UNITS
METRIC

THIRD ANGLE
PROJECTION

TITLE
0.5 FFC/FPC CONN NON-ZIF
HSG ASSY(BOTTOM CONTACT)
-LEAD FREE-

molex

DOCUMENT NO. SD-52976-010 | SHEET NO. 2 OF 2

DIMENSION STYLE
MM ONLY

DRAWN BY HSHIMABUKURO
DATE '04/03/01
CHECKED BY K.TOJO
DATE '04/03/01
APPROVED BY M.SASAO
DATE '04/03/01
MATERIAL NO.

SEE SHEET 1

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

GENERAL TOLERANCES (UNLESS SPECIFIED)			
0.25 UNDER	±	0.25 OVER	±
0.5 UNDER	±	0.5 OVER	±
1.0 UNDER	±	1.0 OVER	±
10 UNDER	± 0.2	10 OVER	± 0.2
30 UNDER	± 0.25	30 OVER	± 0.25
ANGULAR	± 3 °		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			

REVISED	EC NO: J2018-0012	2017/07/24	2017/07/28
DRWNGES	CHKD: APPR:MSASAO		
DESCRIPTION			
REV			

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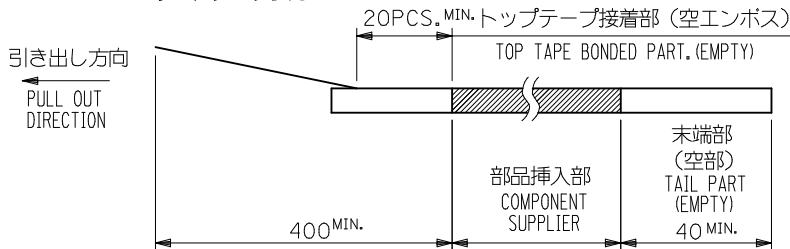
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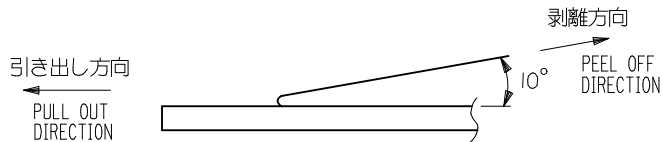
1

NOTES

1. 梱包数量：1000個／リール
NUMBER OF CONNECTORS : 1000PCS/REEL
2. リードテープ長さ LEAD TAPE LENGTH

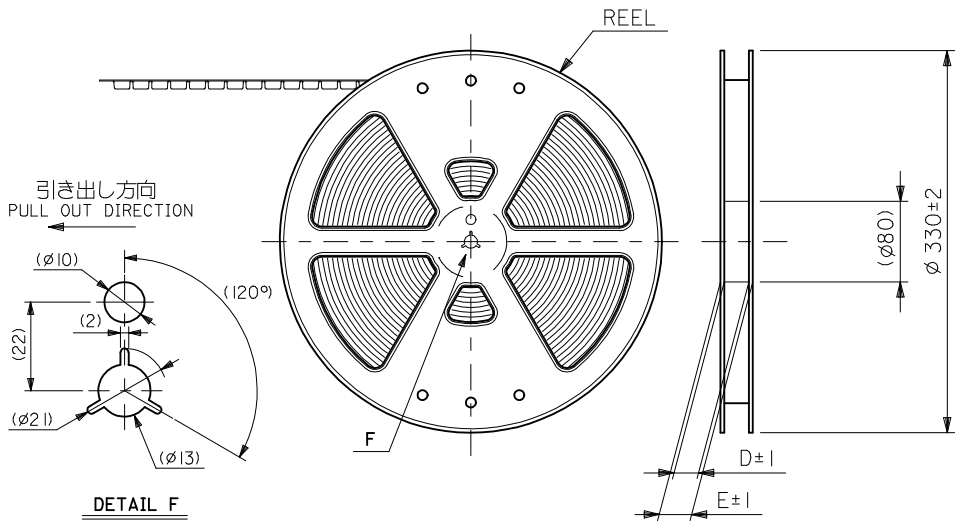


3. トップテープの剥離強度：0.1N ～ 1.3N(10gf ～ 130gf)
(剥離方向は下図参照)
- 尚、本規格値は出荷時に適用。(但し、輸送時に剥離が発生しないこと。)
- PEELING OFF FORCE OF TOP TAPE : 0.1N ～ 1.3N(10gf ～ 130gf)
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)
- THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT.
PEEL OFF SHOULD NOT BE ALLOWED , DURING TRANSPORTATION.




4. 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:POLYSTYREN(PS)
<RECYCLE MATERIAL CONTAINED>

5. 本製品は 52976-**-92 の鉛フリー品である。
THIS PRODUCT IS LEAD FREE OF 52976-**-92



DETAIL F

52976-**-72 MODEL NO.

REVISED EC NO: J2018-0012 DRAWINGS CHKD: APPR:MSASAO	2017/07/24 2017/07/28	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
			0.25 UNDER ±			DRAWN BY H.SHIMABUKUR	DATE 2004/03/01	TITLE 0.5 FPC CONN NON ZIF HOUSING ASSY EMBSTP PKG -LEAD FREE- molex		
			0.25 OVER 0.5 UNDER ±							
			0.5 OVER 1.0 UNDER ±			CHECKED BY	DATE			
			0 OVER 10 UNDER ± 0.2			K.TOJO	2004/03/01			
			10 OVER 30 UNDER ± 0.25			APPROVED BY	DATE			
			30 OVER ± 0.3			M.SASAO	2004/03/01			
			ANGULAR ±3 °			MATERIAL NO.		DOCUMENT NO. SD-52976-011	SHEET NO. 1 OF 2	
						SEE SHEET 2				
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

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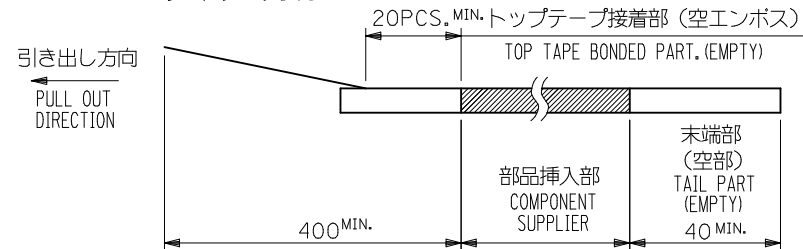
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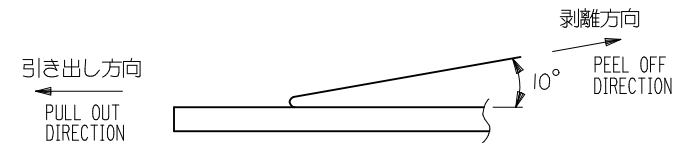
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NOTES

1. 梱包数量：1000個/リール
NUMBER OF CONNECTORS : 1000PCS/REEL
2. リードテープ長さ LEAD TAPE LENGTH

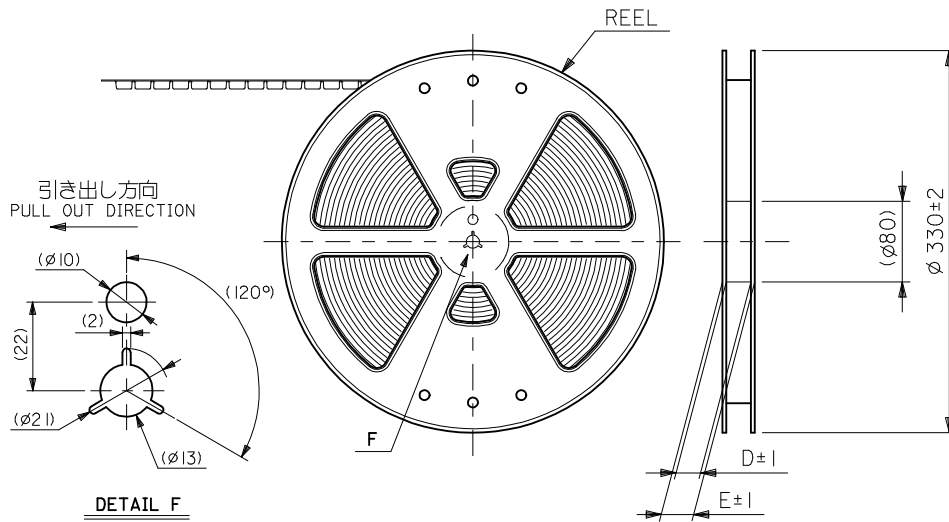


3. トップテープの剥離強度：0.1N ～ 1.3N(10gf ～ 130gf)
(剥離方向は下図参照)
尚、本規格値は出荷時に適用。(但し、輸送時に剥離が発生しないこと。)
PEELING OFF FORCE OF TOP TAPE : 0.1N ～ 1.3N(10gf ～ 130gf)
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)
THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT.
PEEL OFF SHOULD NOT BE ALLOWED , DURING TRANSPORTATION.




4. 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:POLYSTYREN(PS)
<RECYCLE MATERIAL CONTAINED>

5. 本製品は 52976-**-92 の鉛フリー品である。
THIS PRODUCT IS LEAD FREE OF 52976-**-92



DETAIL F

52976-**-72 MODEL NO.

REVISED EC NO: J2018-0012 DRAWINGS CHKD: APPR:MSASAO	2017/07/124 2017/07/128	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY			SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
			0.25 UNDER ±			DRAWN BY DATE			TITLE 0.5 FPC CONN NON ZIF HOUSING ASSY EMBSTP PKG -LEAD FREE- molex			
			0.25 OVER 0.5 UNDER ±			H.SHIMABUKUR 2004/03/01						
			0.5 OVER 1.0 UNDER ±			CHECKED BY DATE						
			0 OVER 10 UNDER ± 0.2			K.TOJO 2004/03/01						
			10 OVER 30 UNDER ± 0.25			APPROVED BY DATE						
			30 OVER ± 0.3			M.SASAO 2004/03/01			DOCUMENT NO. SD-52976-011			
			ANGULAR ±3 °			MATERIAL NO.						SHEET NO. 1 OF 2
			SEE SHEET 2									
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

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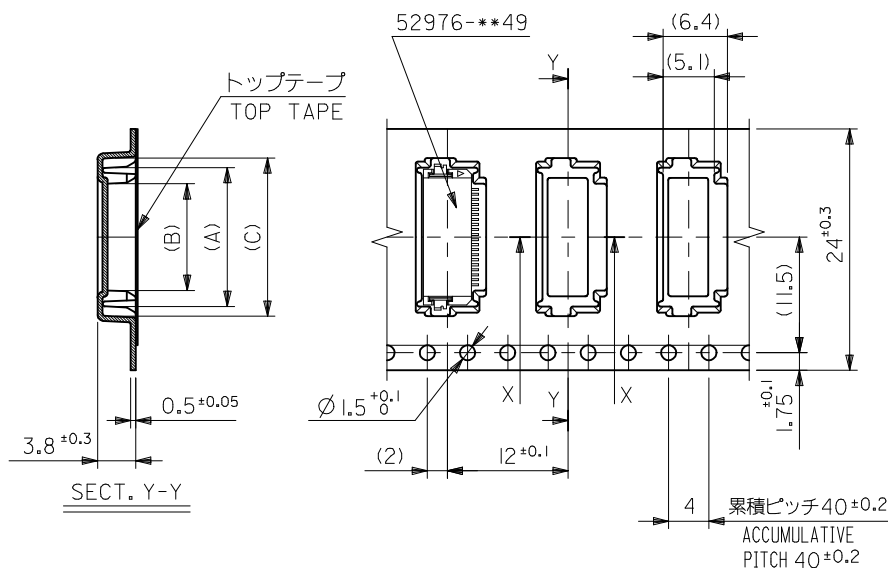
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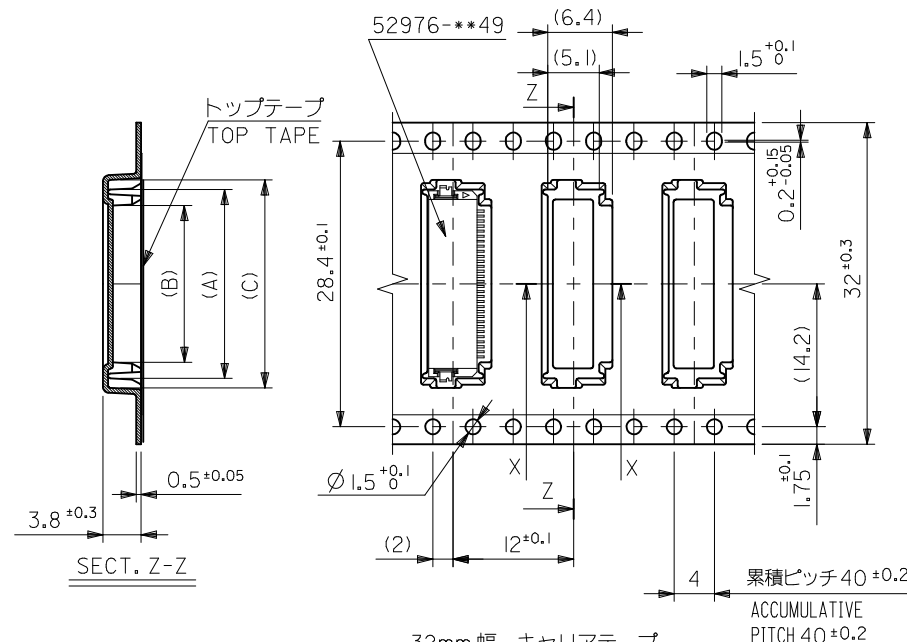
A

引き出し方向
PULL OUT DIRECTION

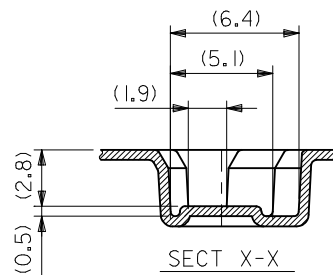


24mm 幅 キャリアテープ
24mm WIDTH CARRIER TAPE

引き出し方向
PULL OUT DIRECTION



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



SECT X-X

32	37.4	33.4	20.7	15.6	18.8	52976-3072	30
24	29.4	25.4	17.7	12.6	15.8	52976-2472	24
			14.7	9.6	12.8	52976-1872	18
			13.7	8.6	11.8	52976-1672	16
			10.7	5.6	8.8	52976-1072	10
			10.2	5.1	8.3	52976-0972	9
			9.7	4.6	7.8	52976-0872	8
キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(C)	(B)	(A)	MATERIAL. NO.	極数 CKT.

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Rev J 2015/09/01

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REVISED EC NO: J2018-0012 DRAWINGS CHKD: APPR:MSASAO	DESCRIPTION 2017/07/24 2017/07/28	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		0.25 UNDER ±			DRAWN BY DATE		TITLE 0.5 FPC CONN NON ZIF HOUSING ASSY EMBSTP PKG -LEAD FREE- molex SD-52976-011				
		0.25 OVER 0.5 UNDER ±			H. SHIMABUKUR 2004/03/01						
		0.5 OVER 1.0 UNDER ±			CHECKED BY DATE						
		0 OVER 10 UNDER ±0.2			K. TOJO 2004/03/01						
		10 OVER 30 UNDER ±0.25			APPROVED BY DATE						
		30 OVER ±0.3			M. SASAO 2004/03/01						
		ANGULAR ±3 °			MATERIAL NO.		DOCUMENT NO.			SHEET NO.	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-52976-011			2 OF 2	
		SIZE A3			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						
REV											

52976-***72 MODEL NO.

SHEET NO.
2 OF 2

10 9 8 7 6 5 4 3 2 1

F

E

D

C

B

A

F

E

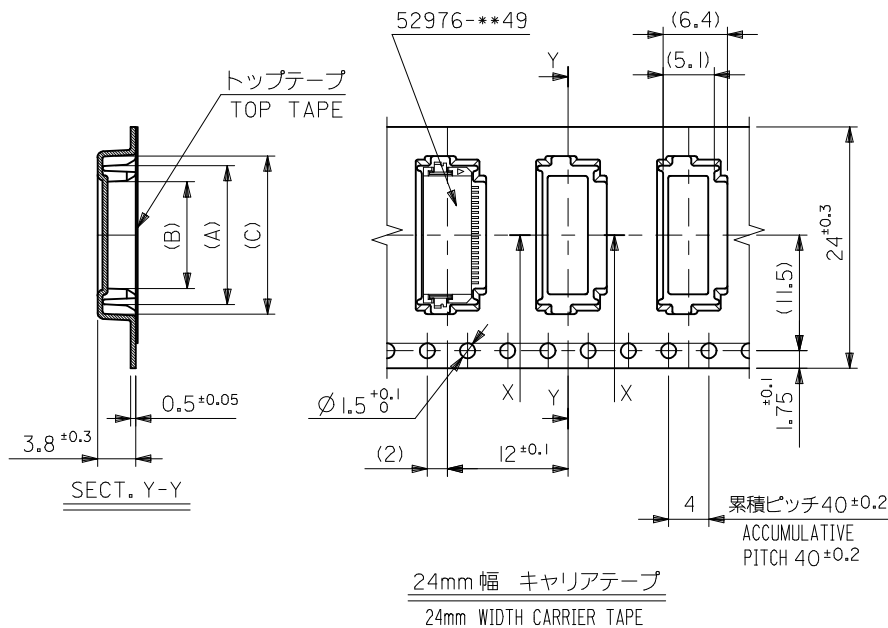
D

C

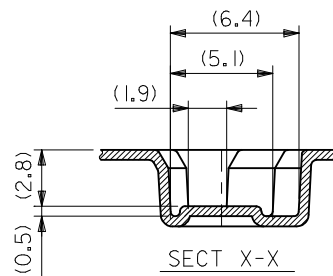
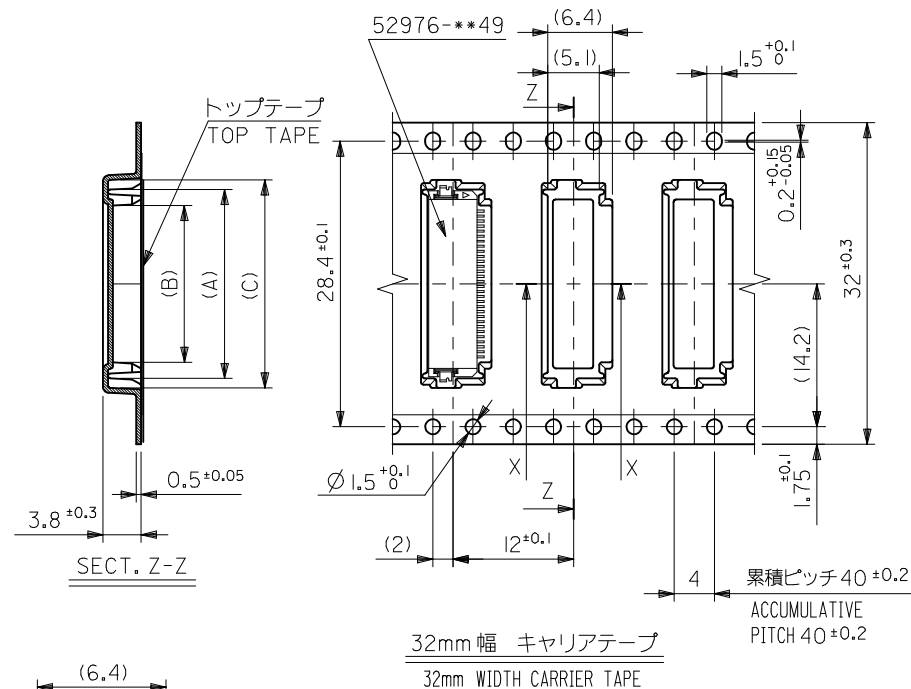
B

A

引き出し方向
PULL OUT DIRECTION



引き出し方向
PULL OUT DIRECTION



32	37.4	33.4	20.7	15.6	18.8	52976-3072	30
24	29.4	25.4	17.7	12.6	15.8	52976-2472	24
			14.7	9.6	12.8	52976-1872	18
			13.7	8.6	11.8	52976-1672	16
			10.7	5.6	8.8	52976-1072	10
			10.2	5.1	8.3	52976-0972	9
			9.7	4.6	7.8	52976-0872	8
キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(C)	(B)	(A)	MATERIAL. NO.	極数 CKT.

fb_frame_A3_J_AM_S
Rev J 2015/09/01

9

8

7

6

5

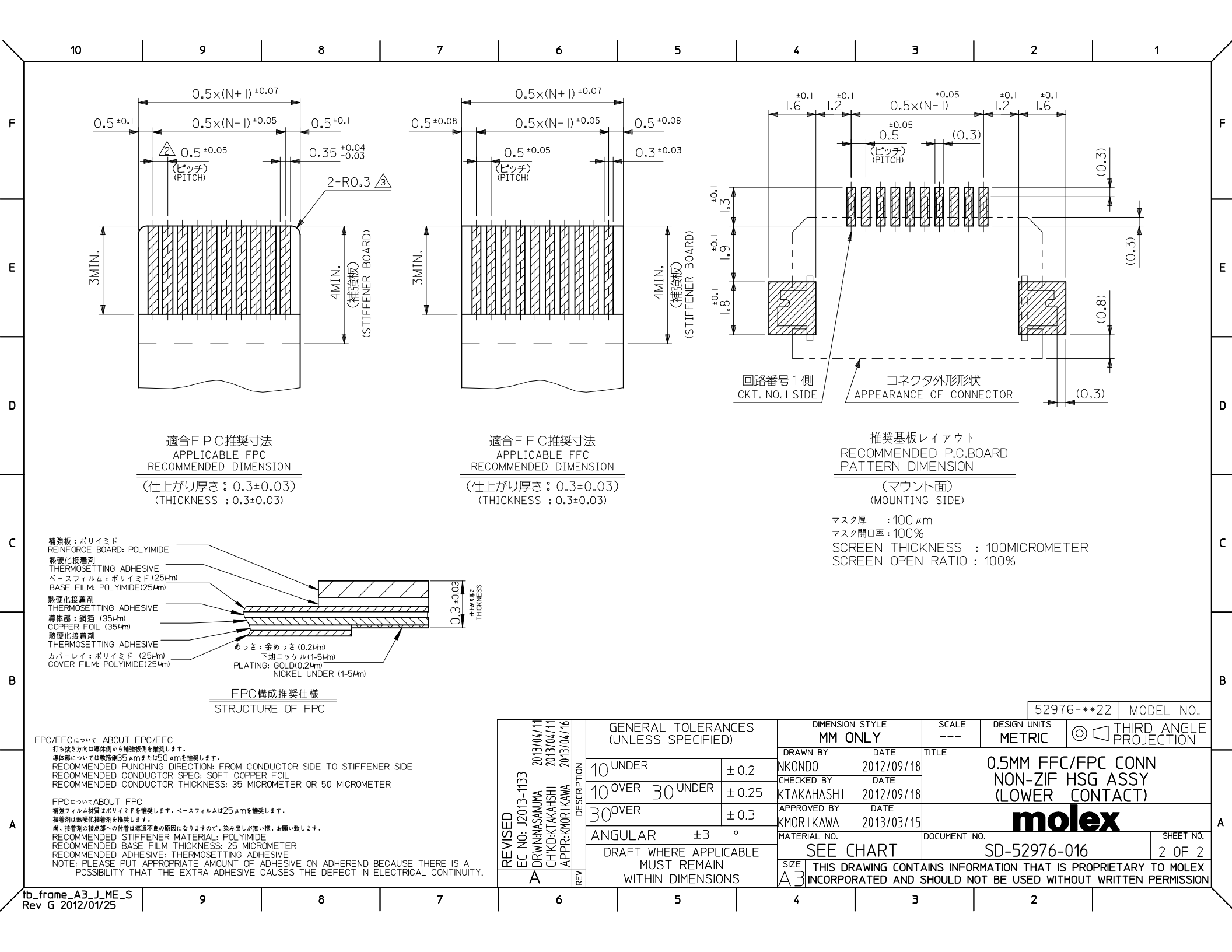
4

3

2

1

REVISED EC NO: J2018-0012 DRAWINGS CHKD: APPR:MSASAO	DESCRIPTION 2017/07/24 2017/07/28	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
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		0 OVER 10 UNDER ±0.2			K. TOJO 2004/03/01		DOCUMENT NO. SD-52976-011				
		10 OVER 30 UNDER ±0.25			APPROVED BY DATE						
		30 OVER ±0.3			M. SASAO 2004/03/01		SHEET NO. 2 OF 2				
		ANGULAR ±3 °			MATERIAL NO.						
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
					SIZE A3						



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