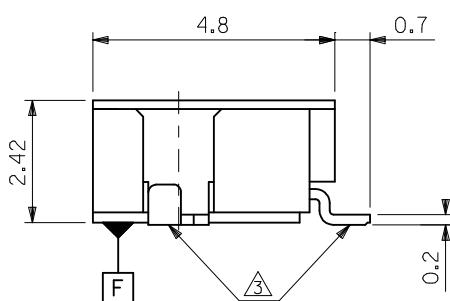
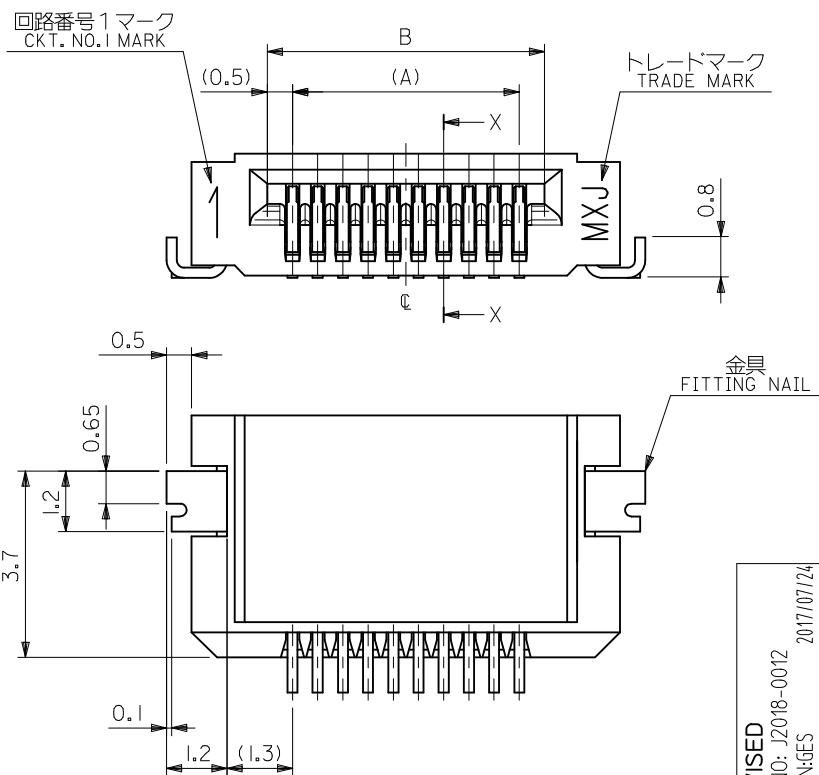
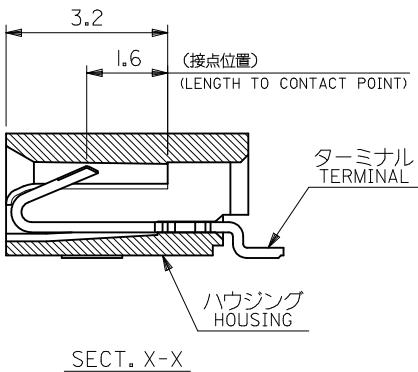
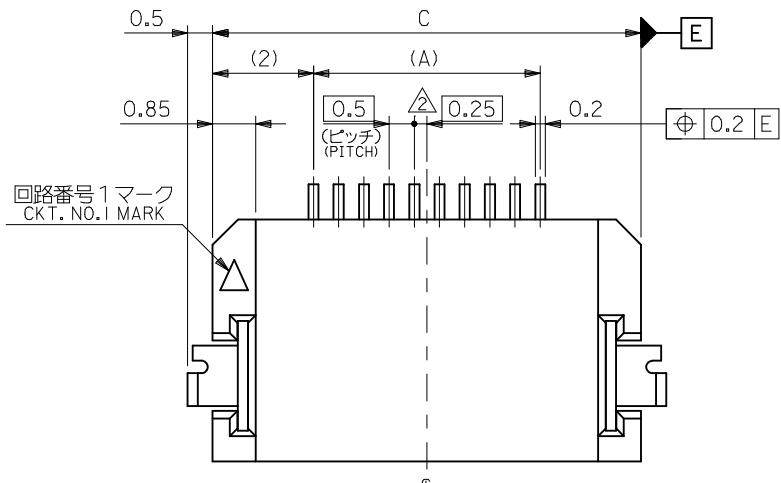


10 9 8 7 6 5 4 3 2 1



### 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 錫ビスマスマッキ  
TERMINAL: PHOS-BRO. ( $t=0.2$ ), TIN-BIMUST 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 0.15MAX. とする。

MISALIGNMENT OF SOLDER TAILS AND FITTING NAILS  
FROM [F] : UPPER DIRECTION 0.1 MAX.  
: LOWER DIRECTION 0.15MAX.

#### 5. 本製品は 52976-\*\*40 の鉛フリー品である。

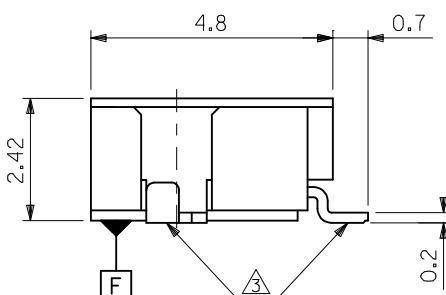
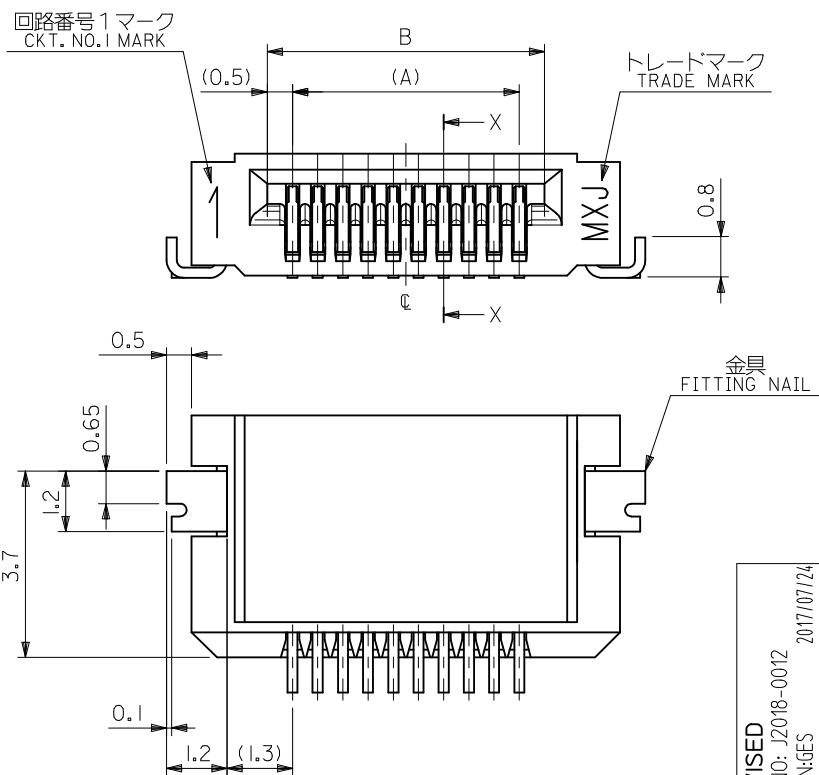
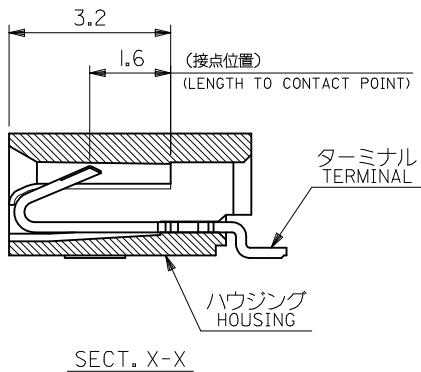
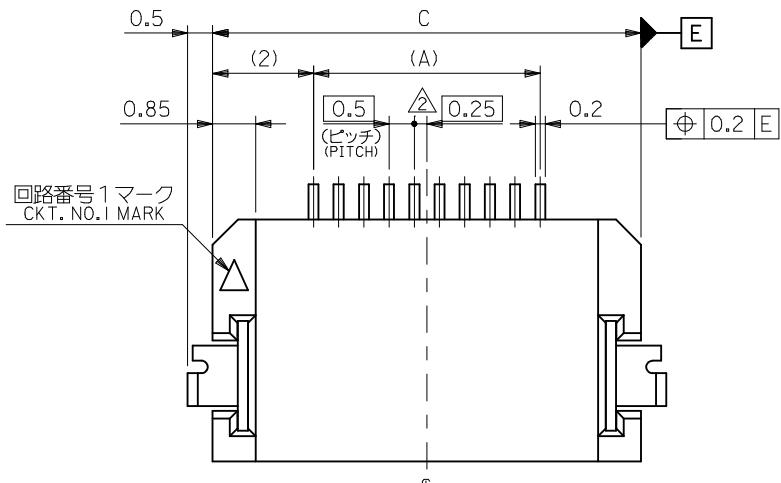
THIS PRODUCT IS LEAD FREE OF 52976-\*\*40

18.5	15.5	14.5	52976-3072	52976-3049	30
15.5	12.5	11.5	4 -2472	4 -2449	24
12.5	9.5	8.5	4 -1872	4 -1849	18
11.5	8.5	7.5	4 -1672	4 -1649	16
8.5	5.5	4.5	4 -1072	4 -1049	10
8.0	5.0	4.0	4 -0972	4 -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. 標数 NO. OF CKT.	

REVISED	EC NO: I2018-0012	DRAWINGS 2017/07/24	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE MM ONLY	SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
C			0.25 UNDER ± 0.25 OVER 0.5 UNDER ± 0.5 OVER 1.0 UNDER ± 0 OVER 10 UNDER ±0.2 10 OVER 30 UNDER ±0.25 30 OVER ±0.3	DRAWN BY HSHIMABUKURO '04/03/01 CHECKED BY K.TOJO '04/03/01 APPROVED BY M.SASAO '04/03/01	DATE DATE DATE	TITLE 0.5 FFC/FPC CONN NON-ZIF HSG ASSY(BOTTOM CONTACT) -LEAD FREE-	
			ANGULAR ±3°	SEE TABLE			
			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	DOCUMENT NO. SD-52976-010	SHEET NO. 1 OF 2

**molex**

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 錫ピスマスメッキ  
TERMINAL: PHOS-BRO. ( $t=0.2$ ), TIN-BIMUST 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 0.15MAX. とする。

MISALIGNMENT OF SOLDER TAILS AND FITTING NAILS  
FROM [F] : UPPER DIRECTION 0.1 MAX.  
: LOWER DIRECTION 0.15MAX.

#### 5. 本製品は 52976-\*\*40 の鉛フリー品である。

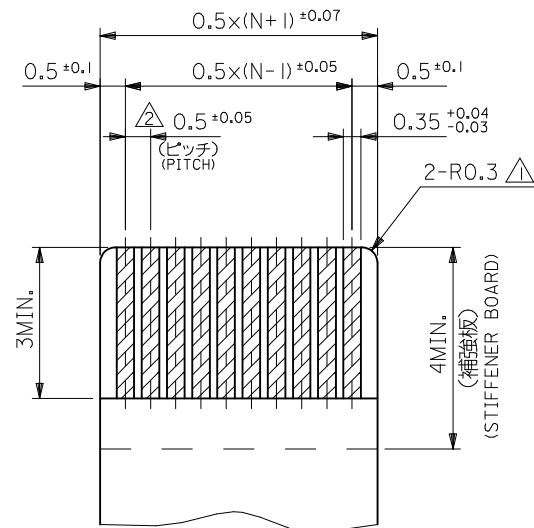
THIS PRODUCT IS LEAD FREE OF 52976-\*\*40

18.5	15.5	14.5	52976-3072	52976-3049	30
15.5	12.5	11.5	4 -2472	4 -2449	24
12.5	9.5	8.5	4 -1872	4 -1849	18
11.5	8.5	7.5	4 -1672	4 -1649	16
8.5	5.5	4.5	4 -1072	4 -1049	10
8.0	5.0	4.0	4 -0972	4 -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.	

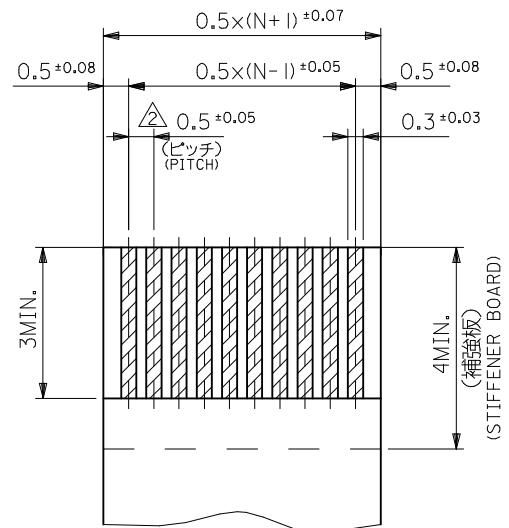
REVISED	EC NO: I2018-0012	DRAWINGS 2017/07/24	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE MM ONLY	SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
C	CH'KD: APR:MSASAO	2017/07/24	0.25 UNDER $\pm$ 0.25 OVER $\pm$ 0.5 OVER 1.0 UNDER $\pm$ 0 OVER 10 UNDER $\pm$ 0.2 10 OVER 30 UNDER $\pm$ 0.25 30 OVER $\pm$ 0.3	DRAWN BY HSHIMABUKURO '04/03/01 CHECKED BY K.TOJO '04/03/01 APPROVED BY M.SASAO '04/03/01	DATE DATE DATE	TITLE 0.5 FFC/FPC CONN NON-ZIF HSG ASSY(BOTTOM CONTACT) -LEAD FREE-	
		REV	ANGULAR $\pm 3^\circ$	MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-52976-010	SHEET NO. 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		

**molex**

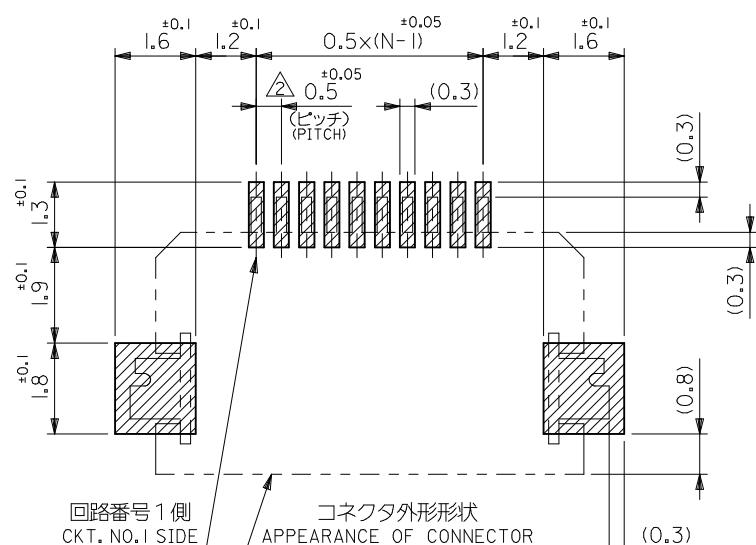
10 9 8 7 6 5 4 3 2 1



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.B. BOARD  
PATTERN DIMENSION  
(マウント面)  
(MOUNTING SIDE)

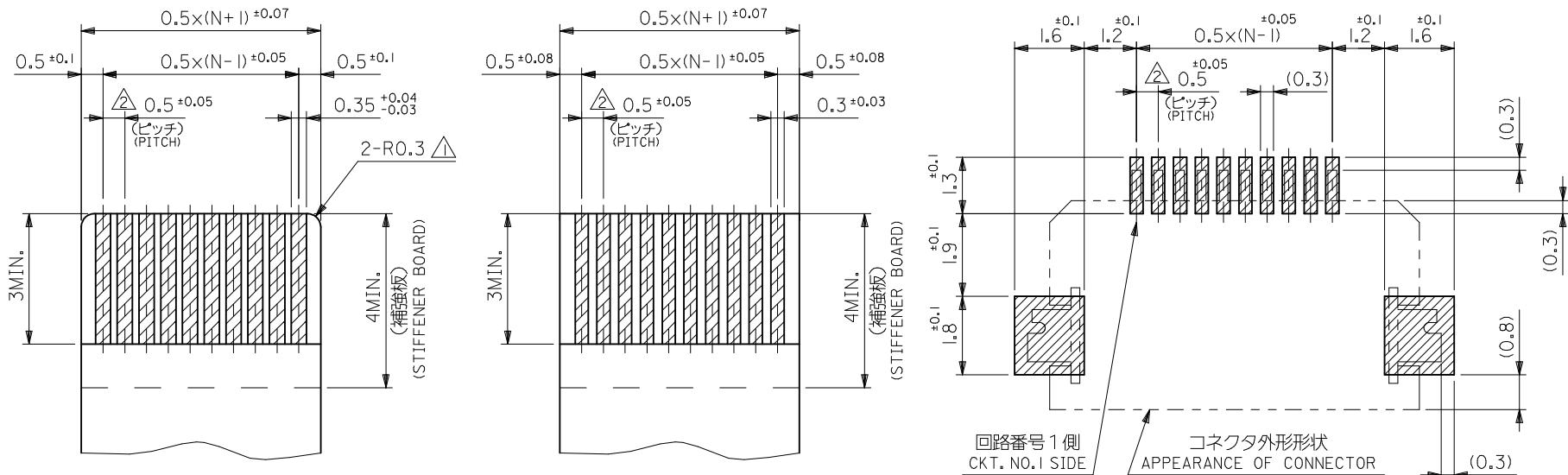
### 注記 NOTES

△ 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		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
EC NO: J2018-0012	2017/07/24	0.25 OVER 0.5 OVER 0 OVER 10 OVER 30 OVER	UNDER 0.5 OVER 1.0 UNDER 0.2 UNDER 0.25 UNDER 0.3	DRAWN BY HISHIMABUKURO CHECKED BY K. TOJO APPROVED BY M. SASAO	'04/03/01 '04/03/01 '04/03/01 '04/03/01	TITLE 0.5 FFC/FPC CONN NON-ZIF HSG ASSY(BOTTOM CONTACT) -LEAD FREE-		
DRAWINGS	CHKD: APPR:MSASAO	DESCRIPTION						
C		REV	ANGULAR $\pm 3^\circ$					
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					
			SEE SHEET 1				DOCUMENT NO. SD-52976-010	SHEET NO. 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	



適合FPC推奨寸法  
APPLICABLE FPC  
RECOMMENDED DIMENSION  
(仕上がり厚さ:  $0.3 \pm 0.03$ )  
(THICKNESS:  $0.3 \pm 0.03$ )

適合FFC推奨寸法  
APPLICABLE FFC  
RECOMMENDED DIMENSION  
(仕上がり厚さ :  $0.3 \pm 0.03$ )  
(THICKNESS :  $0.3 \pm 0.03$ )

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

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

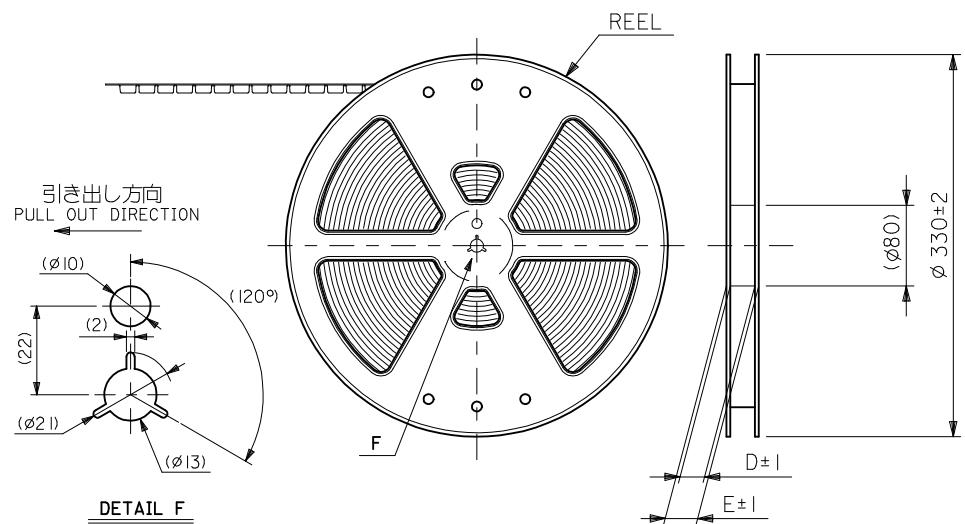
## △ 公差非累積のこと。 NON-ACCUMULATIVE.

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。

RECOMMENDED PUNCHER DIRECTION : FROM CONDUCTOR SIDE TO STIFFENER BOARD SIDE  
RECOMMENDED MATERIAL : STIFFENER FILM : POLYIMIDE  
BONDING AGENT : THERMOSETTING BONDING AGENT

REvised EC NO.: J-2018-0012 DRAWN/DES (CHKO): APPR: MASA0	2017/07/24 2017/07/28 REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
		0.25 0.25 0.5 0 10 30 30	UNDER OVER OVER OVER UNDER OVER OVER	± ± ± ± 0.2 ± 0.25 ± 0.3	DRAWN BY HSHIMABUKURO CHECKED BY K. TOJO APPROVED BY M. SASAO	DATE '04/03/01 DATE '04/03/01 DATE '04/03/01	TITLE 0.5 FFC/FPC CONN NON-ZIF HSG ASSY(BOTTOM CONTACT) -LEAD FREE-	molex
DESCRIPTION		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE SHEET 1	DOCUMENT NO. SD-52976-010	SHEET NO. 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					

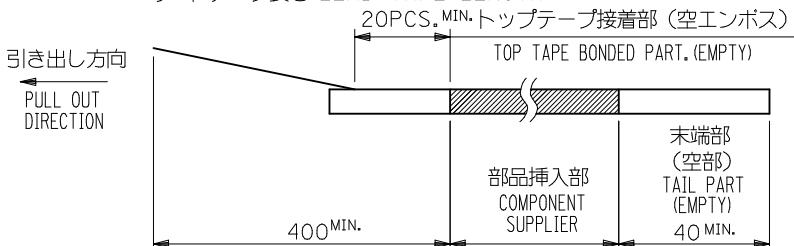
10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1



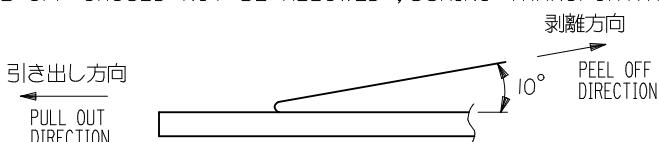
NOTES

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. IN ~ 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. IN ~ 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: POLYSTYRENE(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

52976-\*\*72 MODEL NO.

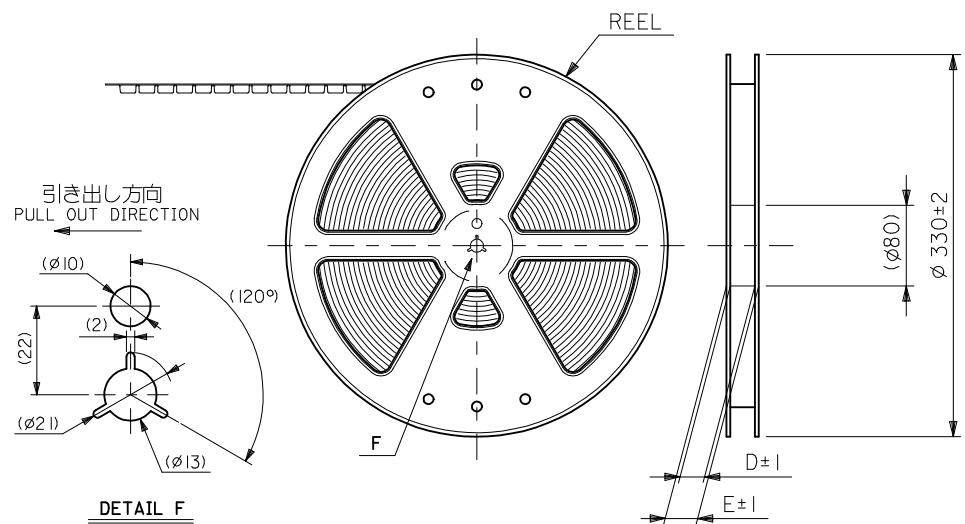
THIRD ANGLE  
PROJECTION

0.5 FPC CONN NON ZIF  
HOUSING ASSY EMBSTP PKG  
-LEAD FREE-

**molex**

REVISED	EC NO: J2018-0012	DRAWINGS	2017/07/24	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE MM ONLY	SCALE ---	DESIGN UNITS METRIC	DOCUMENT NO.	SHEET NO.
				0.25 UNDER 0.25 OVER 0.5 UNDER 0.5 OVER 1.0 UNDER 0 OVER 10 UNDER 10 OVER 30 UNDER 30 OVER	DRAWN BY H. SHIMABUKUR 2004/03/01 CHECKED BY K. TOJO 2004/03/01 APPROVED BY M. SASAO 2004/03/01	DATE 2004/03/01 DATE 2004/03/01 DATE 2004/03/01		TITLE 0.5 FPC CONN NON ZIF HOUSING ASSY EMBSTP PKG -LEAD FREE-	
				± ± ± ±0.2 ±0.25 ±0.3					
				ANGULAR $\pm 3^\circ$	MATERIAL NO. 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		SD-52976-011	1 OF 2

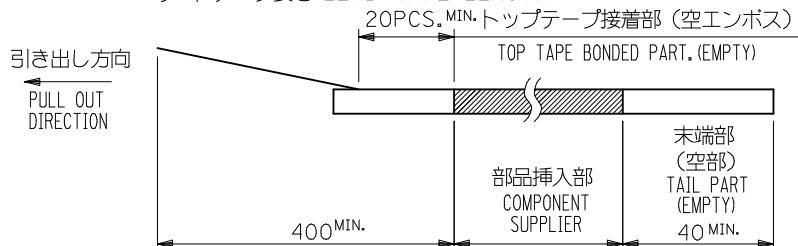
10 9 8 7 6 5 4 3 2 1



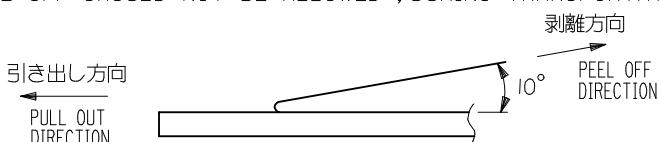
NOTES

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. IN ~ 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. IN ~ 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: POLYSTYRENE (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

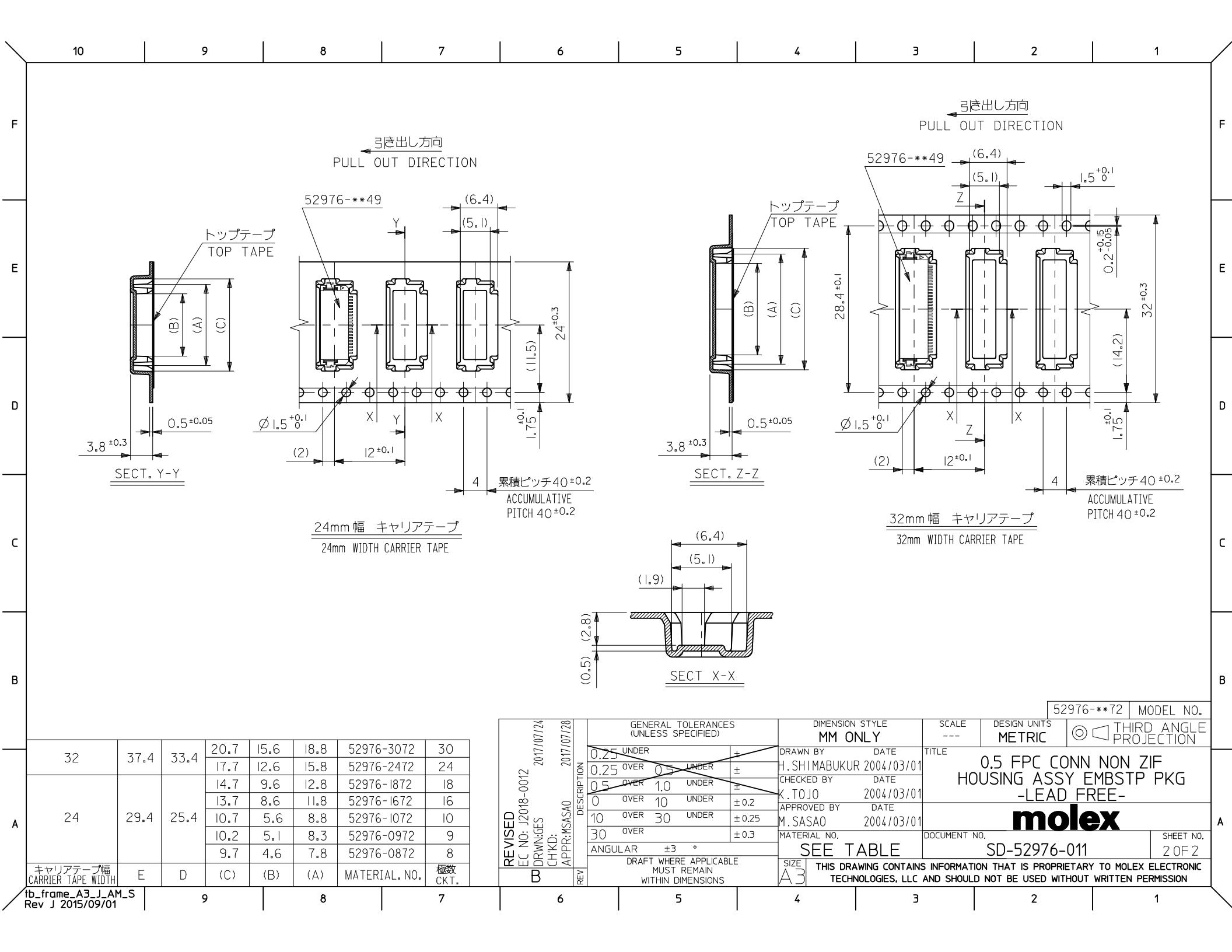
52976-\*\*72 MODEL NO.

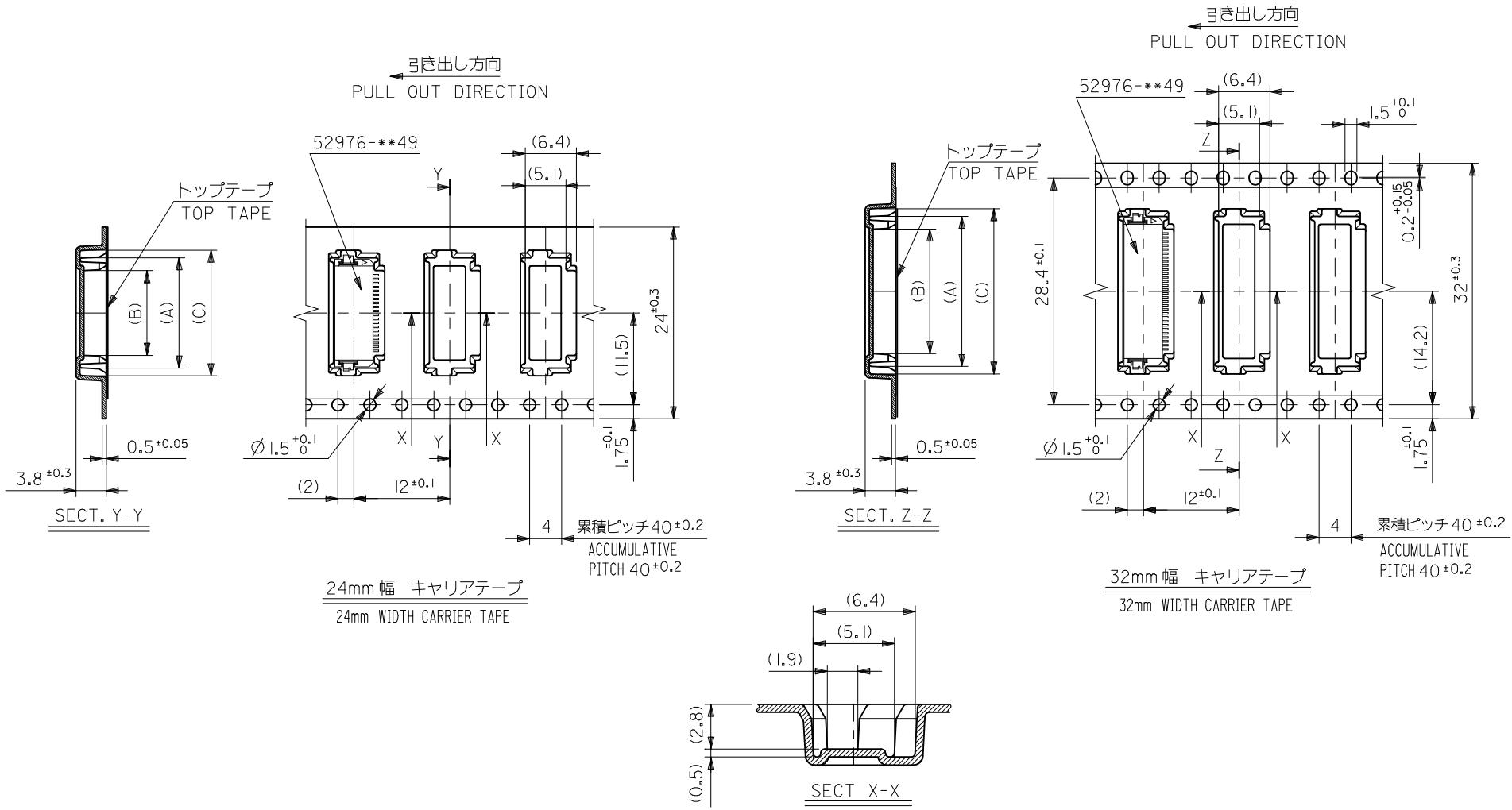
THIRD ANGLE  
PROJECTION

0.5 FPC CONN NON ZIF  
HOUSING ASSY EMBSTP PKG  
-LEAD FREE-

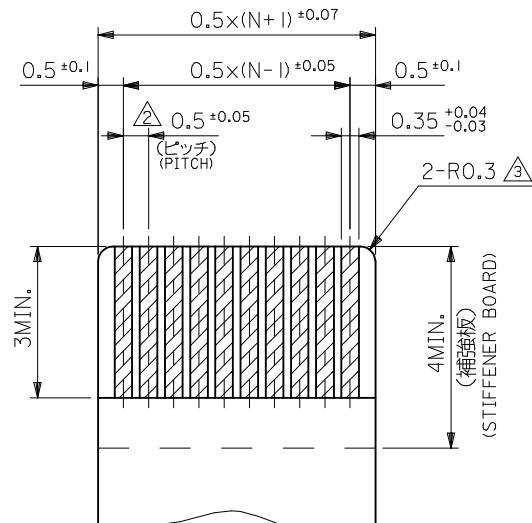
**molex**

REVISED	EC NO: J2018-0012	DRAWINGS	2017/07/24	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE MM ONLY	SCALE ---	DESIGN UNITS METRIC	DOCUMENT NO.	SHEET NO.
REVIEWED			2017/07/28	0.25 UNDER 0.25 OVER 0.5 UNDER 0.5 OVER 1.0 UNDER 0 OVER 10 UNDER 10 OVER 30 UNDER 30 OVER	DRAWN BY H. SHIMABUKUR 2004/03/01 CHECKED BY K. TOJO 2004/03/01 APPROVED BY M. SASAO 2004/03/01	DATE 2004/03/01 DATE 2004/03/01 DATE 2004/03/01	TITLE 0.5 FPC CONN NON ZIF HOUSING ASSY EMBSTP PKG -LEAD FREE-		
CHKD:				± ± ± ±0.2 ±0.25 ±0.3	REV				
APPR: MSA0				ANGULAR ±3°					
B				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					
				SEE SHEET 2					
					SIZE A3				
					THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

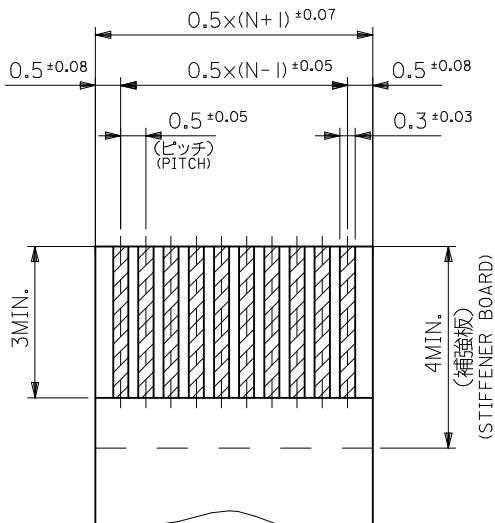




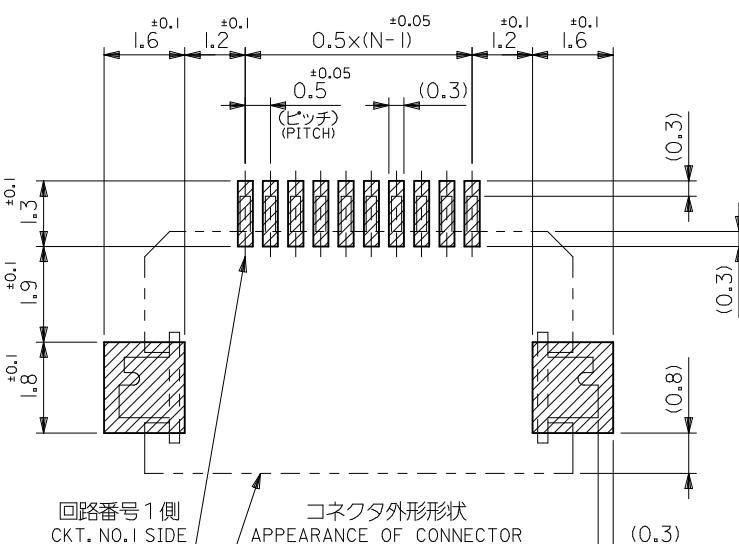
A	32	37.4	33.4	20.7	15.6	18.8	52976-3072	30	
				17.7	12.6	15.8	52976-2472	24	
	24	29.4	25.4	14.7	9.6	12.8	52976-1872	18	
				13.7	8.6	11.8	52976-1672	16	
				10.7	5.6	8.8	52976-1072	10	
				10.2	5.1	8.3	52976-0972	9	
				9.7	4.6	7.8	52976-0872	8	
	キャリアテープ幅 CARRIER TAPE WIDTH		E	D	(C)	(B)	(A)	MATERIAL. NO.	
	tb_frame_A3_J_AM-S Rev. J 2015/09/01		9			8		7	



適合FPC推奨寸法  
APPLICABLE FPC  
RECOMMENDED DIMENSION  
(仕上がり厚さ :  $0.3\pm0.03$ )  
(THICKNESS :  $0.3\pm0.03$ )



適合 FFC 推奨寸法  
APPLICABLE FFC  
RECOMMENDED DIMENSION  
(仕上がり厚さ :  $0.3 \pm 0.03$ )  
(THICKNESS :  $0.3 \pm 0.03$ )



推奨基板レイアウト  
RECOMMENDED P.C.BOARD  
PATTERN DIMENSION  
(マウント面)  
(MOUNTING SIDE)

## FPC構成推奨仕様

FPC/FFCについて ABOUT FPC/FFC  
打ち抜き方向は導体側から補強板側を推奨します。  
導体側については敷銅箔35  $\mu\text{m}$ または50  $\mu\text{m}$ を推奨します。  
RECOMMENDED PUNCHING DIRECTION: FROM CONDUCTOR SIDE TO STIFFENER SIDE  
RECOMMENDED CONDUCTOR SPEC: SOFT COPPER FOIL  
RECOMMENDED CONDUCTOR THICKNESS: 35 MICROMETER OR 50 MICROMETER

FPCについてABOUT FPC  
補強材にフィルムをはりマリヤミを推奨します。ベースフィルムは25  $\mu\text{m}$ を推奨します。  
接着剤は熱硬化接着剤を推奨します。  
尚、接着剤の接着部への付着過多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。  
RECOMMENDED STIFFENER MATERIAL: POLYIMIDE  
RECOMMENDED BASE FILM THICKNESS: 25 MICROMETER  
RECOMMENDED ADHESIVE: THERMOSETTING ADHESIVE  
NOTE: PLEASE PUT APPROPRIATE AMOUNT OF ADHESIVE ON ADHEREND BECAUSE THERE IS A POSSIBILITY THAT THE EXTRA ADHESIVE CAUSES THE DEFECT IN ELECTRICAL CONTINUITY.

REVISED EC NO: 12013-1133 DRWNNNSANUMA CHKD:KTTAKAHASHI APPR:KMORIKAWA REV: A	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
			DRAWN BY NKONDO	DATE 2012/09/18	TITLE	0.5MM FFC/FPC CONN NON-ZIF HSG ASSY (LOWER CONTACT)	
	10 UNDER	± 0.2	CHECKED BY KTAKAHASHI	DATE 2012/09/18		<b>molex</b>	
	10 OVER 30 UNDER	± 0.25	APPROVED BY KMORIKAWA	DATE 2013/03/15			
	30 OVER	± 0.3	MATERIAL NO.	DOCUMENT NO.	SD-52976-016	SHEET NO.	
	ANGULAR ±3 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART	SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

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