

10 9 8 7 6 5 4 3 2 1

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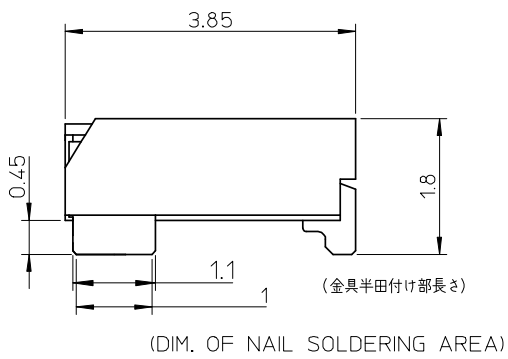
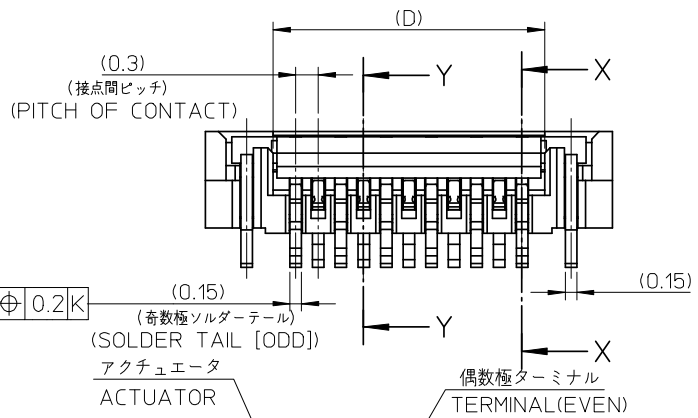
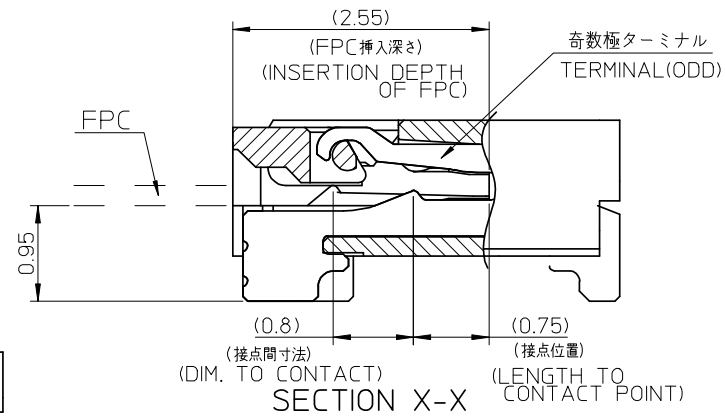
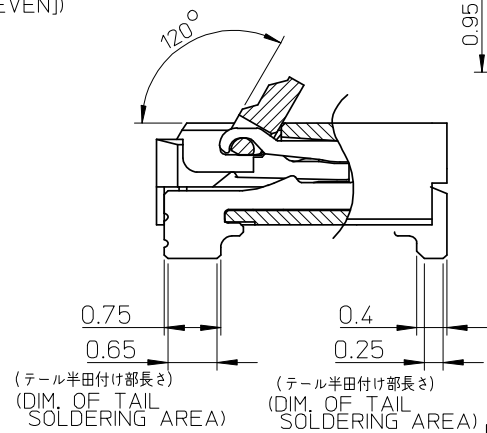
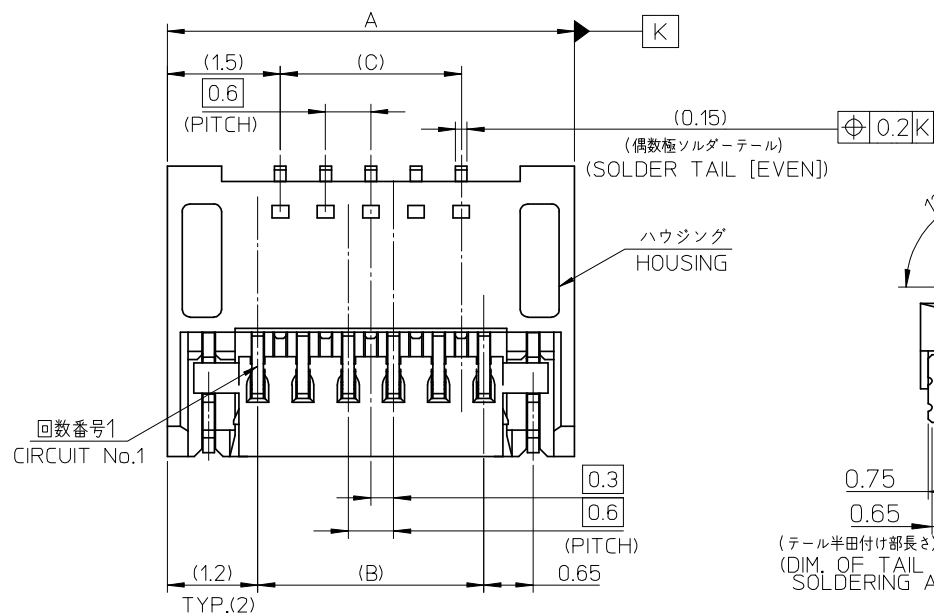
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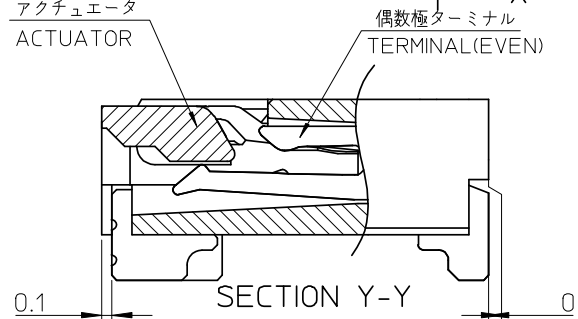
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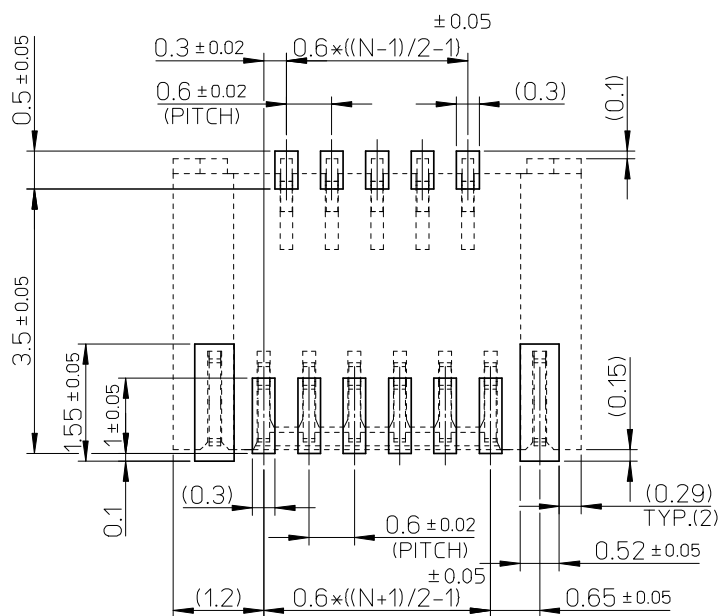
15.6	14.4	15.0	17.4	501912-5190	501912-5110	51
14.4	13.2	13.8	16.2	501912-4790	501912-4710	47
13.8	12.6	13.2	15.6	501912-4590	501912-4510	45
12.6	11.4	12.0	14.4	501912-4190	501912-4110	41
12.0	10.8	11.4	13.8	501912-3990	501912-3910	39
11.4	10.2	10.8	13.2	501912-3790	501912-3710	37
10.8	9.6	10.2	12.6	501912-3590	501912-3510	35
10.2	9.0	9.6	12.0	501912-3390	501912-3310	33
8.4	7.2	7.8	10.2	501912-2790	501912-2710	27
7.8	6.6	7.2	9.6	501912-2590	501912-2510	25
7.2	6.0	6.6	9.0	501912-2390	501912-2310	23
6.6	5.4	6.0	8.4	501912-2190	501912-2110	21
4.8	3.6	4.2	6.6	501912-1590	501912-1510	15
D	C	B	A	EMBOSS-TAPE PKG ORDER No.	MATERIAL No.	CIRCUIT



REVISED EC NO: J2008-3324 DRAWN: H. TAGAMI 2008/03/25 CHECKED: K. TAKAHASHI 2008/04/07 APPR: K. TAKAHASHI 2008/04/07	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 15:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
		10 UNDER	± 0.2	DRAWN BY M. HAYASHI	DATE 2005/07/28	TITLE 0.3 FPC CONN E/O HSG ASSY (HGT=1.8MM) GOLDPLATING		
		10 OVER 30 UNDER	± 0.25	CHECKED BY H. HIRATA	DATE 2005/07/28			
		30 OVER	± 0.3	APPROVED BY M. SASAO	DATE 2005/07/28			
		ANGULAR ±3 °		MATERIAL NO.			DOCUMENT NO. SD-501912-001	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE					
	REV			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

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参考基板レイアウト図
(マウント面)
(MOUNTING SIDE)

注記 NOTES

1. 使用材料 MATFRIAL

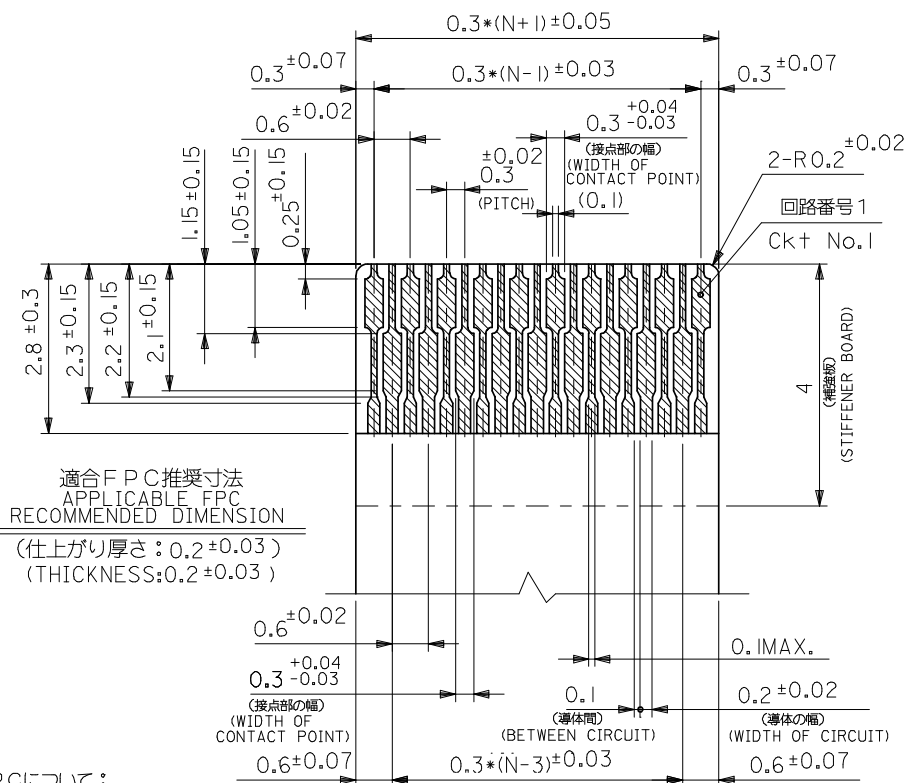
ハウジング : 耐熱性樹脂 ガラス充填 UL94V-0
HOUSING : HEAT RESISTANCE POLYMER (GLASS FILLED) UL94V-0
アクチュエータ : 耐熱性樹脂 ガラス充填 UL94V-0
ACTUATOR : HEAT RESISTANCE POLYMER (GLASS FILLED) UL94V-0
ターミナル : 銅合金 (t=0.15), ニッケル下地金メッキ
TERMINAL : COPPER ALLOY, GOLD OVER NICKEL PLATING.
金具 : 銅合金 (t=0.15), ニッケル下地スズメッキ
FITTING NAIL : COPPER ALLOY , TIN OVER NICKEL PLATING.

ハウジングに黒点がある場合が有りますが、問題はありません。

2. ソルダータール半田付け面、及び金具半田付け面の平坦度 : 0.1mm MAXIMUM.

COPLANARITY OF SOLDER TAILS AND FITTING NAILS
TO BE 0.1mm MAXIMUM.

3. ELV AND RoHS COMPLIANT.



適合FPC推奨寸法
APPLICABLE FPC
RECOMMENDED DIMENSION
(仕上がり厚さ : 0.2 ± 0.03)
(THICKNESS: 0.2 ± 0.03)

FPCについて :

打抜き方向は導体側から補強板側を推奨いたします。
導体部については軟銅箔35マイクロメートルまたは50マイクロメートルを
推奨致します。
補強フィルム材質はポリイミドを推奨します。
接着剤は熱硬化接着剤を推奨します。

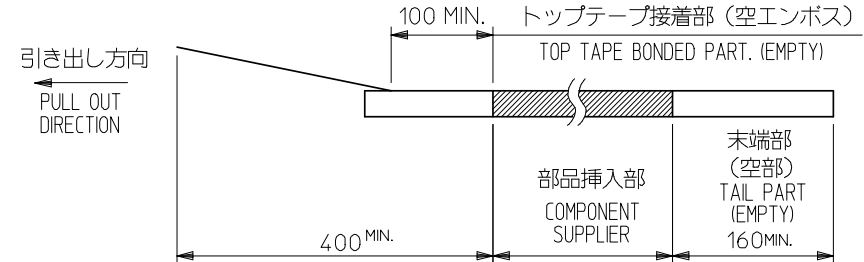
ABOUT FPC

RECOMMENDED PUNCHER DIRECTION : FROM CONDUCTOR SIDE TO STIFFENER FILM SIDE.
RECOMMENDED CONDUCTOR SPEC :
THICKNESS OF SOFT COPPER FOIL : 35 MICROMETER OR 50 MICROMETER
RECOMMENDED MATERIAL :
STIFFENER FILM : POLYIMIDE
BONDING AGENT : THERMOSETTING BONDING AGENT

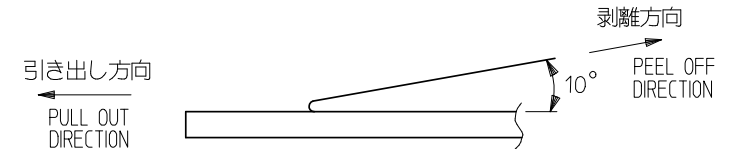
REVISED	EC NO. J2008-3324	DRAWN HTAGAMI	2008/03/25	CHKD:K.TAKAHASHI	2008/04/07	APPR:K.TAKAHASHI	2008/04/07	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ----	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		TITLE 0.3 FPC CONN E/O HSG ASSY (HGT=1.8MM) GOLDPLATING
									10 UNDER	± 0.2	DRAWN BY M.HAYASHI	DATE 2005/07/28	MOLEX INCORPORATED				
									10 OVER 30 UNDER	± 0.25	CHECKED BY H.HIRATA	DATE 2005/07/28					
									30 OVER	± 0.3	APPROVED BY M.SASAO	DATE 2005/07/28					
									ANGULAR ±3 °		MATERIAL NO.			DOCUMENT NO.	SHEET NO.		
REV									DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 1		SD-501912-001		2 OF 2		
											SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

NOTES

- 製品詳細寸法は製品単体図面を参照して下さい。
FOR DETAIL OF CONNECTOR DIMENSIONS,PLEASE SEE THE DRAWING OF CONNECTOR ITSELF(NOT PACKAGED).
- 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



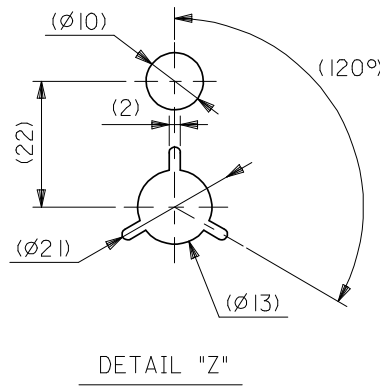
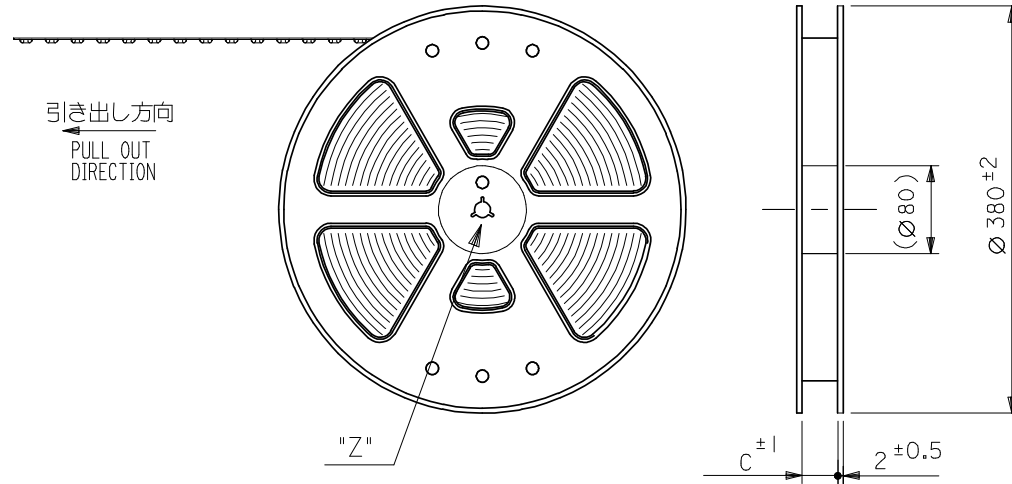
- トップテープの剥離強度：60±35gf (0.25N～0.93N) (剥離方向は下図参照) 尚、本規格値は出荷時に適用。(但し、輸送時に剥離が発生しないこと。)
PEELING OFF FORCE OF TOP TAPE：65gf±30gf (0.25N～0.93N) (PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.) THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT. PEEL OFF SHOULD NOT BE ALLOWED, DURING TRANSPORTATION.



5. 材料(MATERIAL)

キャリアテープ (CARRIER TAPE)：ポリスチレン (POLYSTYREN)
トップテープ (TOP TAPE)：PET, PE, PEF
リール(REEL)：ポリスチレン(PS) <リサイクル材を含む>
POLYSTYREN(PS) <RECYCLE MATERIAL CONTAINED>

- C寸法は SHEET 2～4を参照下さい。
SEE SHEET 2～4(DIMENSION C).
- ELV AND RoHS COMPLIANT.



REVISED EC NO: J2008-3324 DRAWN: HTAGAMI 2008/03/25 CHKD: K TAKAHASHI 2008/04/07 APPR: K TAKAHASHI 2008/04/07	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	501912-**-90 DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	MODEL NO.	
		10 UNDER	± 0.2	DRAWN BY M. HAYASHI	DATE 2005/10/11	TITLE EMBSTP PKG FOR 0.3 FPC CONN (HGT=1.8MM) GOLD PLATING				
		10 OVER 30 UNDER	± 0.25	CHECKED BY H. HIRATA	DATE 2005/10/11					
		30 OVER	± 0.3	APPROVED BY M. SASAO	DATE 2005/10/11	 MOLEX INCORPORATED				
		ANGULAR ±3 °		MATERIAL NO.						
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-501912-002		1 OF 4			
	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

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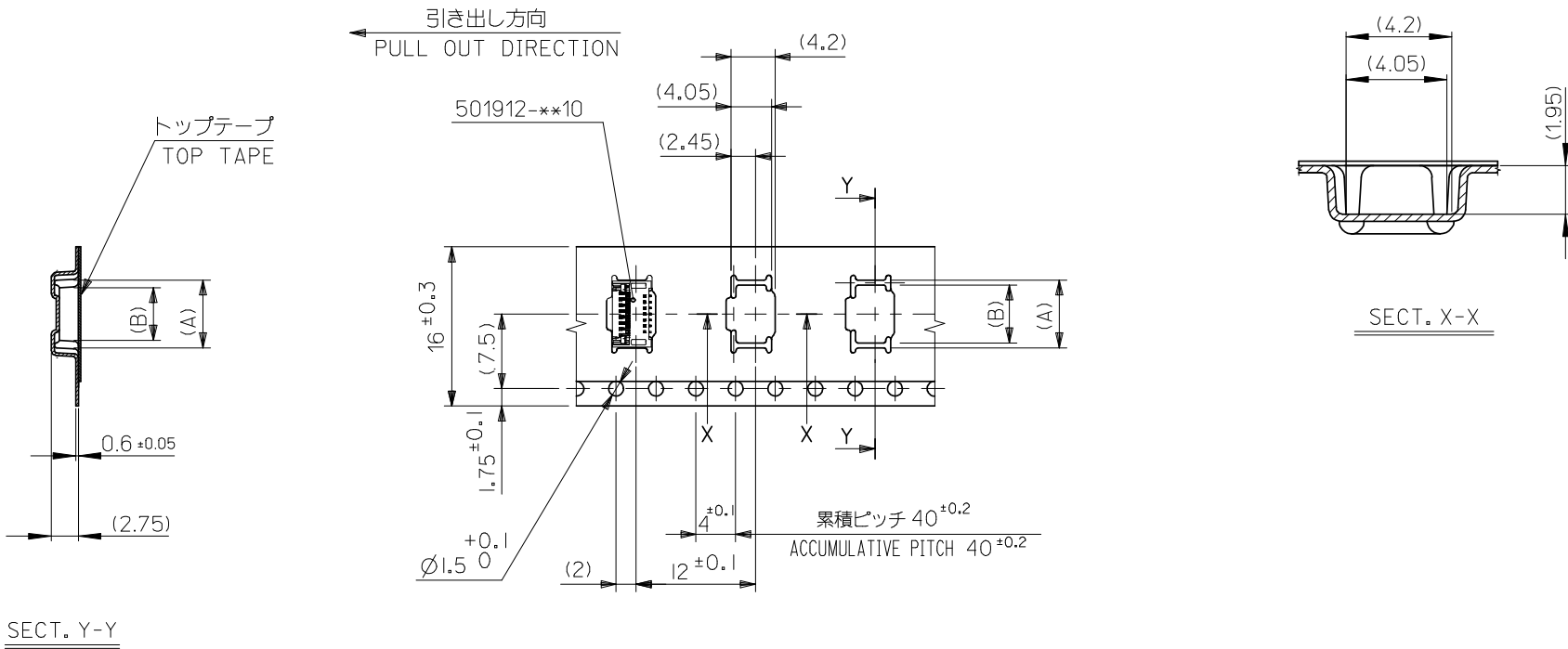
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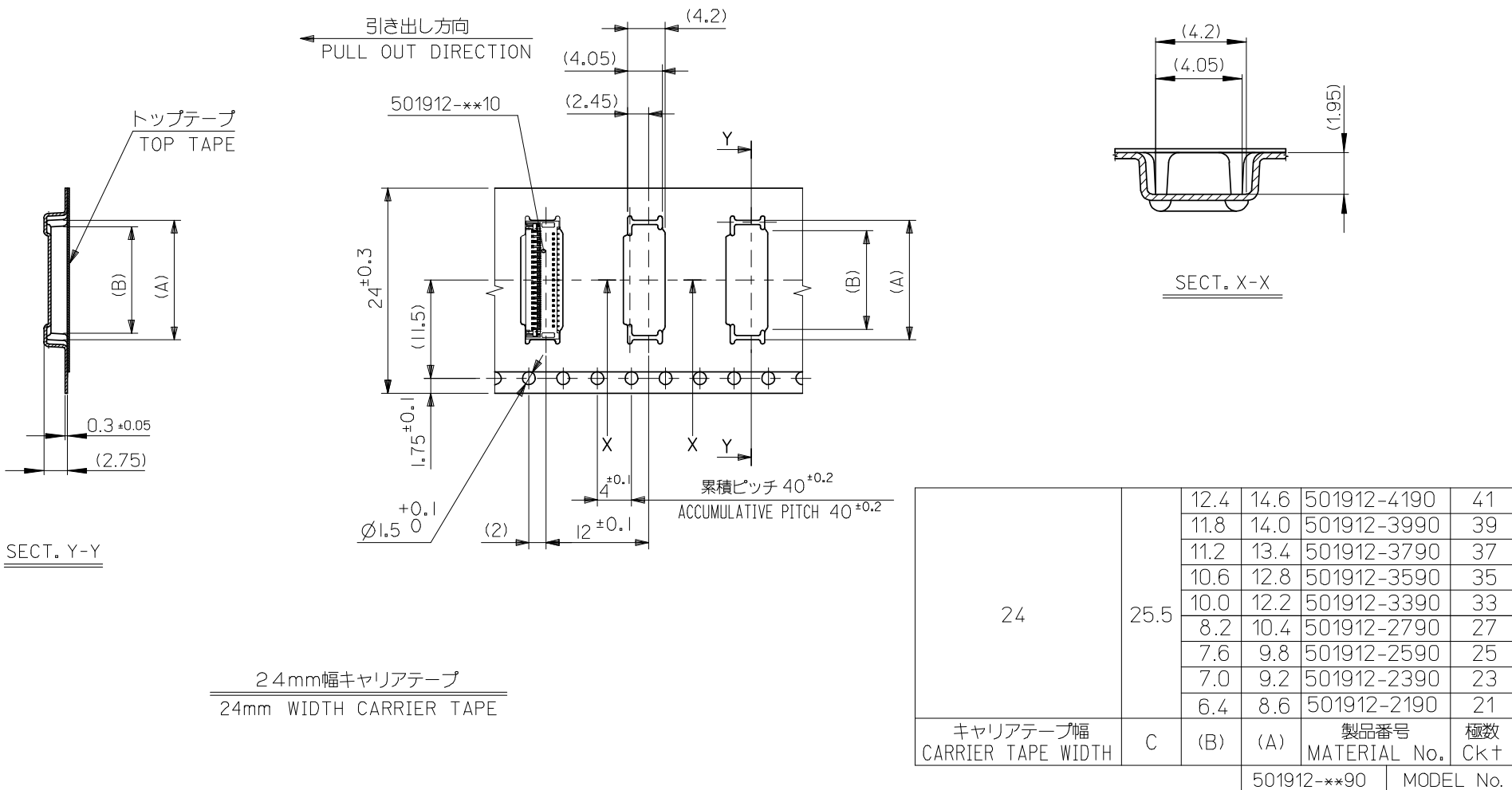
A



16 mm幅キャリアテープ
16mm WIDTH CARRIER TAPE

16	17.5	4.6	6.8	501912-1590	15
キャリアテープ幅 CARRIER TAPE WIDTH	C	(B)	(A)	製品番号 MATERIAL No.	極数 CK+
501912-**-90				MODEL No.	

REVISED EC NO: J2008-3324 DRAWN: HTAGAMI 2008/03/25 CHKD: KITAKAHASHI 2008/04/07 APPR: KITAKAHASHI 2008/04/07	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
		10 UNDER	± 0.2	DRAWN BY M. HAYASHI	DATE 2005/10/11	TITLE EMBSTP PKG FOR 0.3 FPC CONN (HGT=1.8MM) GOLD PLATING					
		10 OVER 30 UNDER	± 0.25	CHECKED BY H. HIRATA	DATE 2005/10/11						
		30 OVER	± 0.3	APPROVED BY M. SASAO	DATE 2005/10/11	MOLEX INCORPORATED					
		ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.				SHEET NO.	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-501912-002				2 OF 4	
				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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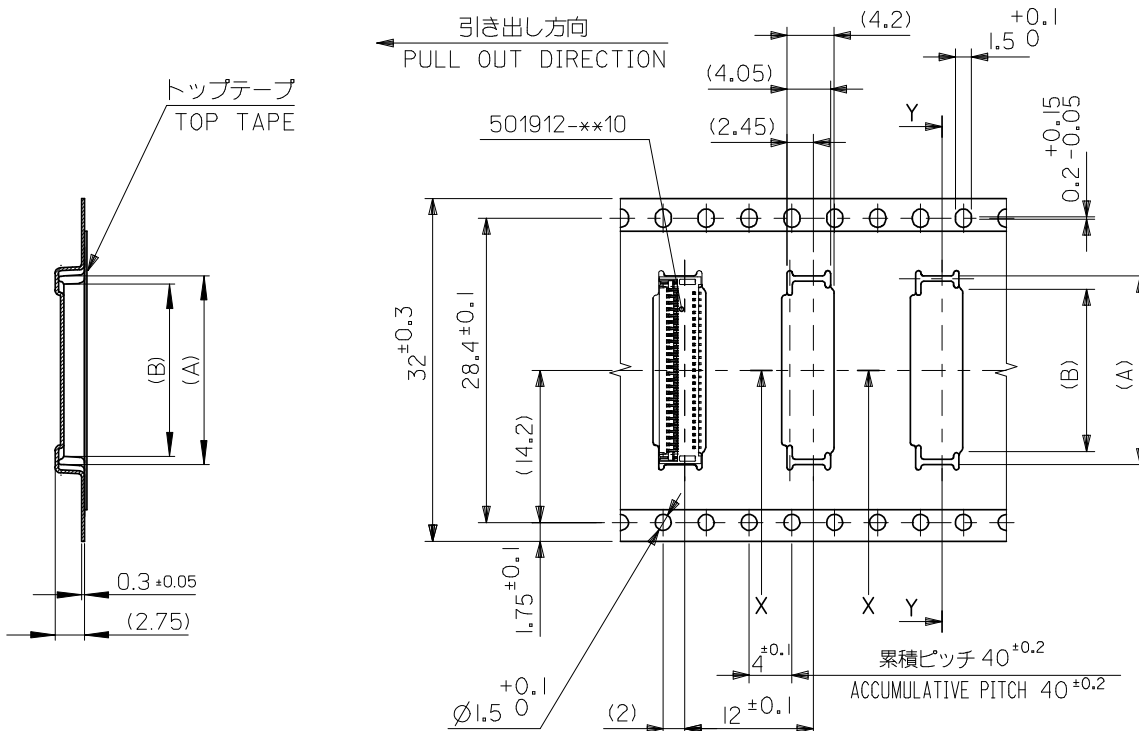
E

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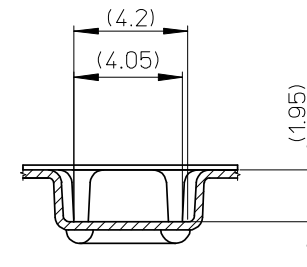
C

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SECT. Y-Y



SECT. X-X

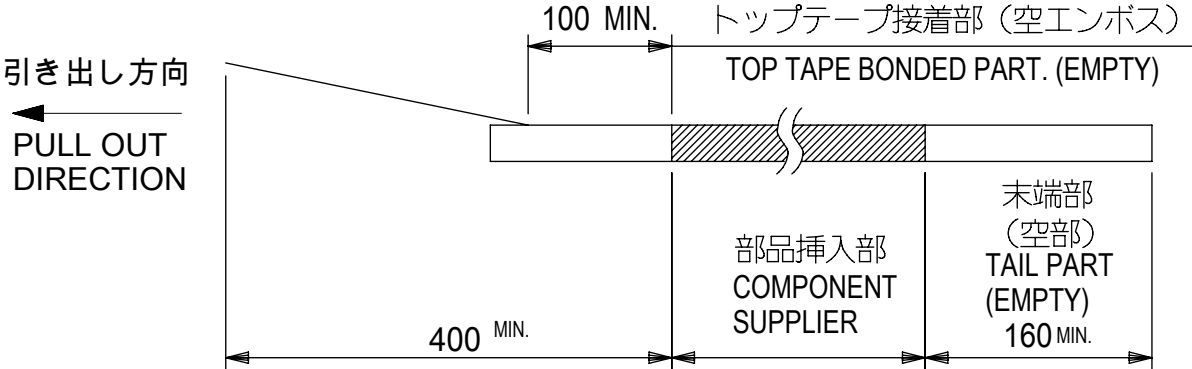
32mm幅キャリアテープ
32mm WIDTH CARRIER TAPE

32	33.5	15.4	17.6	501912-5190	51
		14.2	16.4	501912-4790	47
		13.6	15.8	501912-4590	45
キャリアテープ幅 CARRIER TAPE WIDTH	C	(B)	(A)	製品番号 MATERIAL No.	極数 CK+
				501912-**-90	MODEL No.

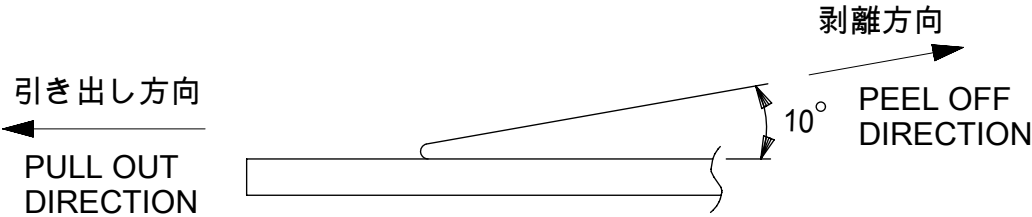
REVISED EC NO: J2008-3324 DRAWN: HTAGAMI 2008/03/25 CHKD: KITAKAHASHI 2008/04/07 APPR: KITAKAHASHI 2008/04/07	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	DRAWN BY M. HAYASHI	DATE 2005/10/11	TITLE EMBSTP PKG FOR 0.3 FPC CONN (HGT=1.8MM) GOLD PLATING				
		10 OVER 30 UNDER	± 0.25	CHECKED BY H. HIRATA	DATE 2005/10/11					
		30 OVER	± 0.3	APPROVED BY M. SASAO	DATE 2005/10/11	molex MOLEX INCORPORATED				
		ANGULAR ±3 °		MATERIAL NO.						
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-501912-002		4 OF 4			
	REV			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

NOTES

1. 製品詳細寸法は製品単体図面を参照して下さい。
FOR DETAIL OF CONNECTOR DIMENSIONS,PLEASE SEE THE DRAWING OF CONNECTOR ITSELF(NOT PACKAGED).
2. 梱包数量：3000個 / リール
NUMBER OF CONNECTORS : 3000PCS/REEL
3. リードテープ長さ LEAD TAPE LENGTH

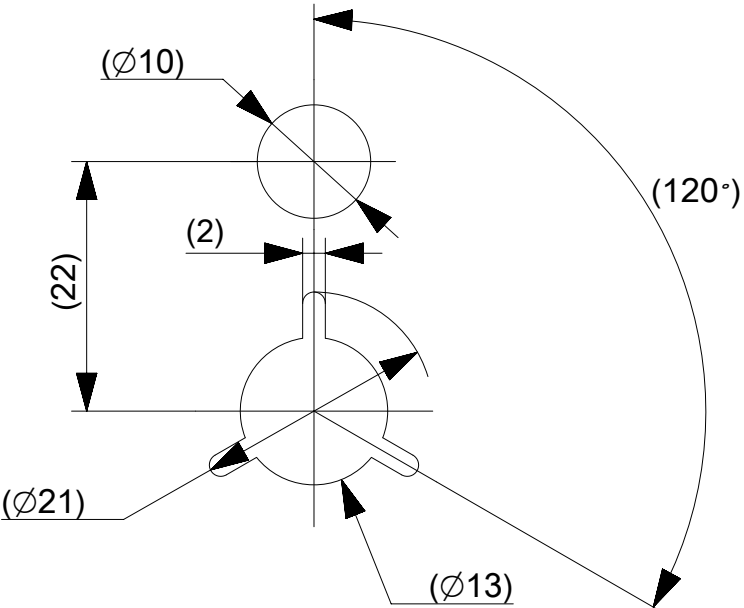
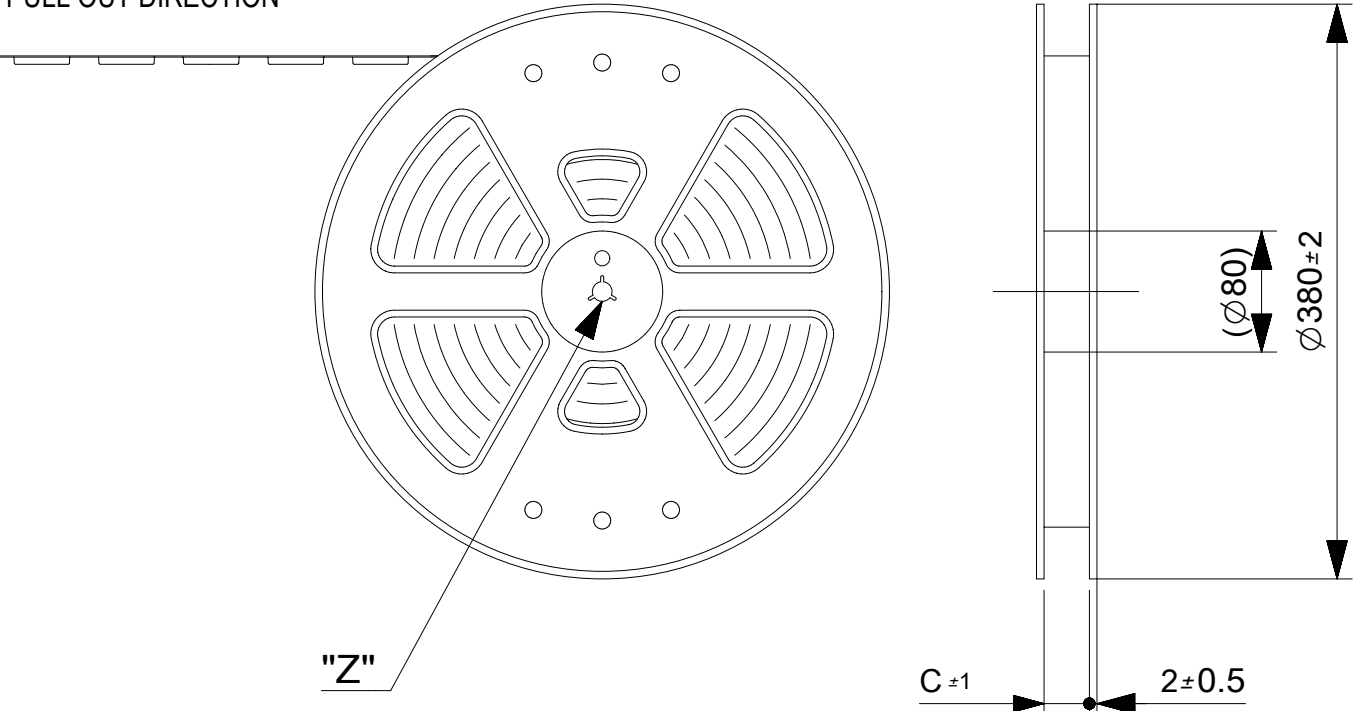


4. トップテープの剥離強度：60±35gf (0.25N～0.93N) (剥離方向は下図参照)
尚、本規格は出荷時に適用。(但し、輸送時に剥離が発生しないこと。)
PEELING OFF FORCE OF TOP TAPE : 60gf±35gf (0.25N ~ 0.93N)
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIG,)
THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT.
PEEL OFF SHOULD NOT BE ALLOWED , DURING TRANSPORTATION.



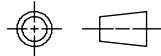
5. 材料(MATERIAL)
キャリアテープ(CARRIER TAPE)：ポリスチレン(POLYSTYREN)
トップテープ(TOP TAPE)：PET, PE, PEF
リール(REEL)：ポリスチレン(PS) <リサイクル材を含む>
POLYSTYREN(PS) <RECYCLE MATERIAL CONTAINED>
6. C寸法は SHEET 2～4を参照下さい。
SEE SHEET 2～4(DIMENSION C).
7. ELV AND RoHS COMPLIANT.

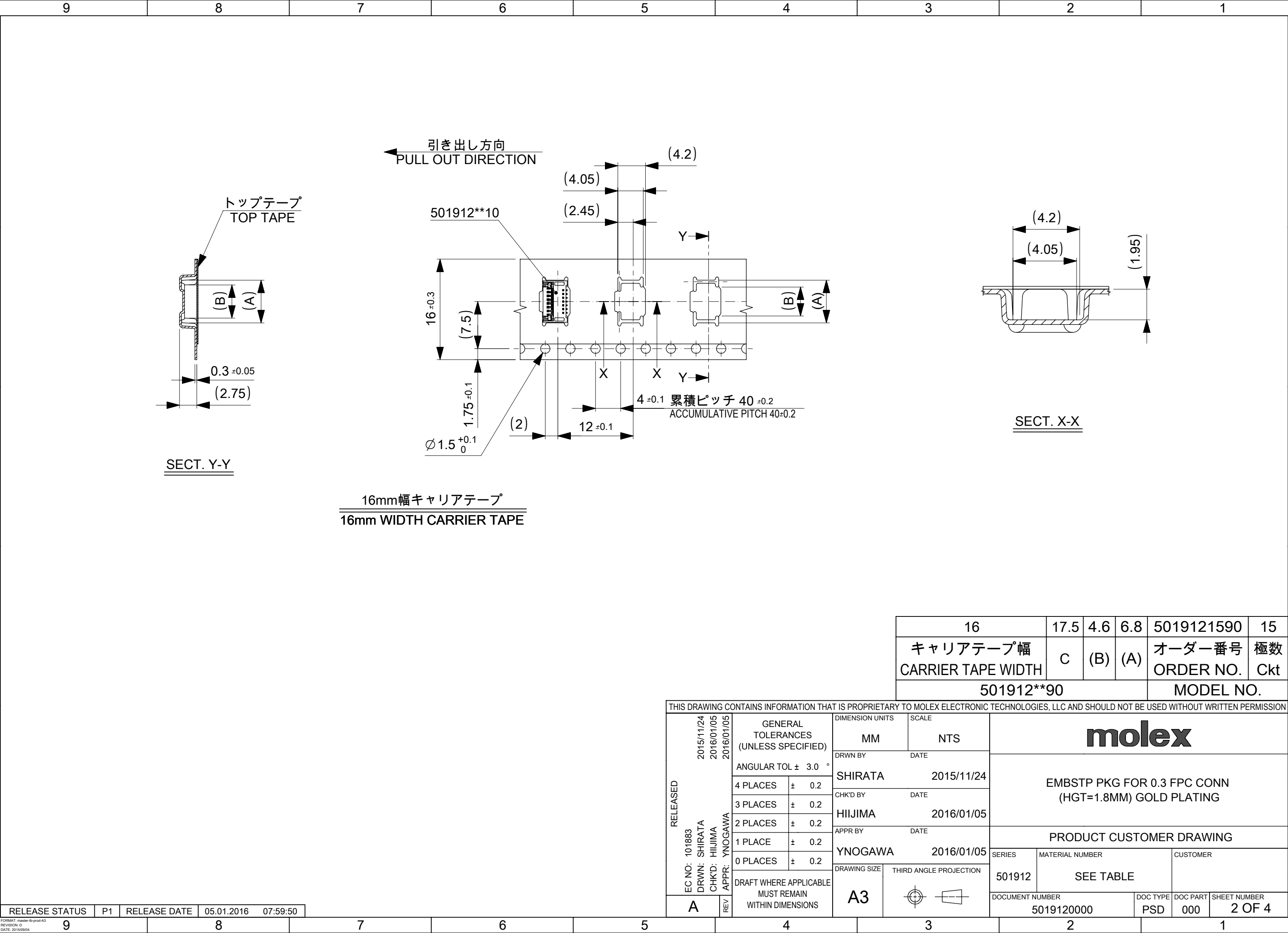
引き出し方向
PULL OUT DIRECTION



DETAIL "Z"

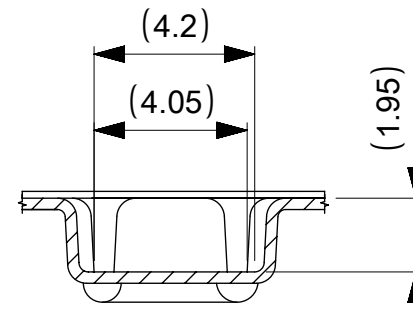
501912**90 MODEL NO.

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																				
RELEASED	EC NO: 101883 DRWN: SHIRATA CHK'D: HIJIMA APPR: YNOGAWA	2015/11/24 2016/01/05 2016/01/05	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS		SCALE		molex											
					MM		NTS													
			ANGULAR TOL ± 3.0 °		DRWN BY		DATE		EMBSTP PKG FOR 0.3 FPC CONN (HGT=1.8MM) GOLD PLATING											
					SHIRATA		2015/11/24													
			4 PLACES ± 0.2		CHK'D BY		DATE								PRODUCT CUSTOMER DRAWING					
			3 PLACES ± 0.2		HIIJIMA		2016/01/05													
			2 PLACES ± 0.2		APPR BY		DATE													
			1 PLACE ± 0.2		YNOGAWA		2016/01/05		SERIES		MATERIAL NUMBER			CUSTOMER						
			0 PLACES ± 0.2		DRAWING SIZE		THIRD ANGLE PROJECTION				501912		SEE TABLE							
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		A3						DOCUMENT NUMBER			DOC TYPE	DOC PART	SHEET NUMBER				
5019120000											PSD	000	1 OF 4							



16	17.5	4.6	6.8	5019121590	15
キャリアテープ幅 CARRIER TAPE WIDTH	C	(B)	(A)	オーダー番号 ORDER NO.	極数 Ckt
501912**90				MODEL NO.	

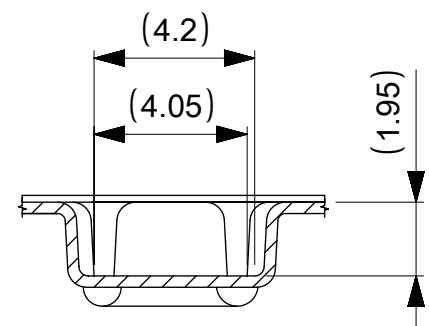
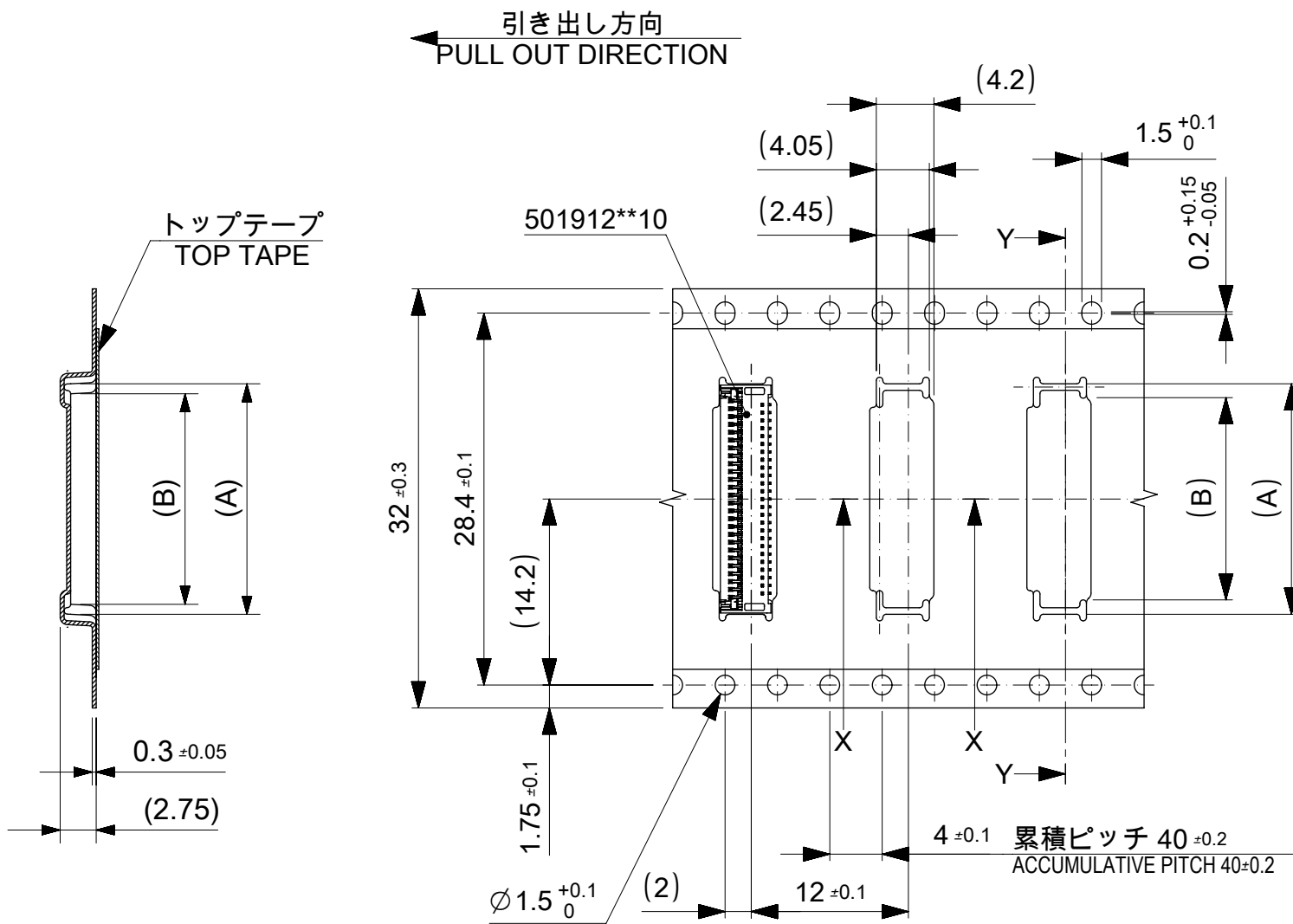
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																			
RELEASED EC NO: 101883 DRWN: SHIRATA CHK'D: HIIJIMA APPR: YNOGAWA		2015/11/24 2016/01/05 2016/01/05		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS		SCALE		molex									
						MM		NTS											
				ANGULAR TOL ± 3.0 °		DRWN BY		DATE		SHIRATA		2015/11/24							
				4 PLACES ± 0.2		CHK'D BY		DATE		HIIJIMA		2016/01/05							
				3 PLACES ± 0.2		APPR BY		DATE		YNOGAWA		2016/01/05							
				2 PLACES ± 0.2		DRAWING SIZE		THIRD ANGLE PROJECTION		A3									
				1 PLACE ± 0.2															
				0 PLACES ± 0.2															
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS										PRODUCT CUSTOMER DRAWING					
														SERIES		MATERIAL NUMBER		CUSTOMER	
												501912		SEE TABLE					
												DOCUMENT NUMBER		DOC TYPE		DOC PART		SHEET NUMBER	
												5019120000		PSD		000		2 OF 4	
A		REV																	
RELEASE STATUS		P1		RELEASE DATE		05.01.2016		07:59:50											



SECT. Y-Y

24	25.5	12.4	14.6	5019124190	41
		11.8	14.0	5019123990	39
		11.2	13.4	5019123790	37
		10.6	12.8	5019123590	35
		10.0	12.2	5019123390	33
		8.2	10.4	5019122790	27
		7.6	9.8	5019122590	25
		7.0	9.2	5019122390	23
		6.4	8.6	5019122190	21
キャリアテープ幅 CARRIER TAPE WIDTH	C	(B)	(A)	オーダー番号 ORDER NO.	極数 Ckt
501912**90				MODEL NO.	

RELEASE STATUS	P1	RELEASE DATE	05.01.2016	07:59:50
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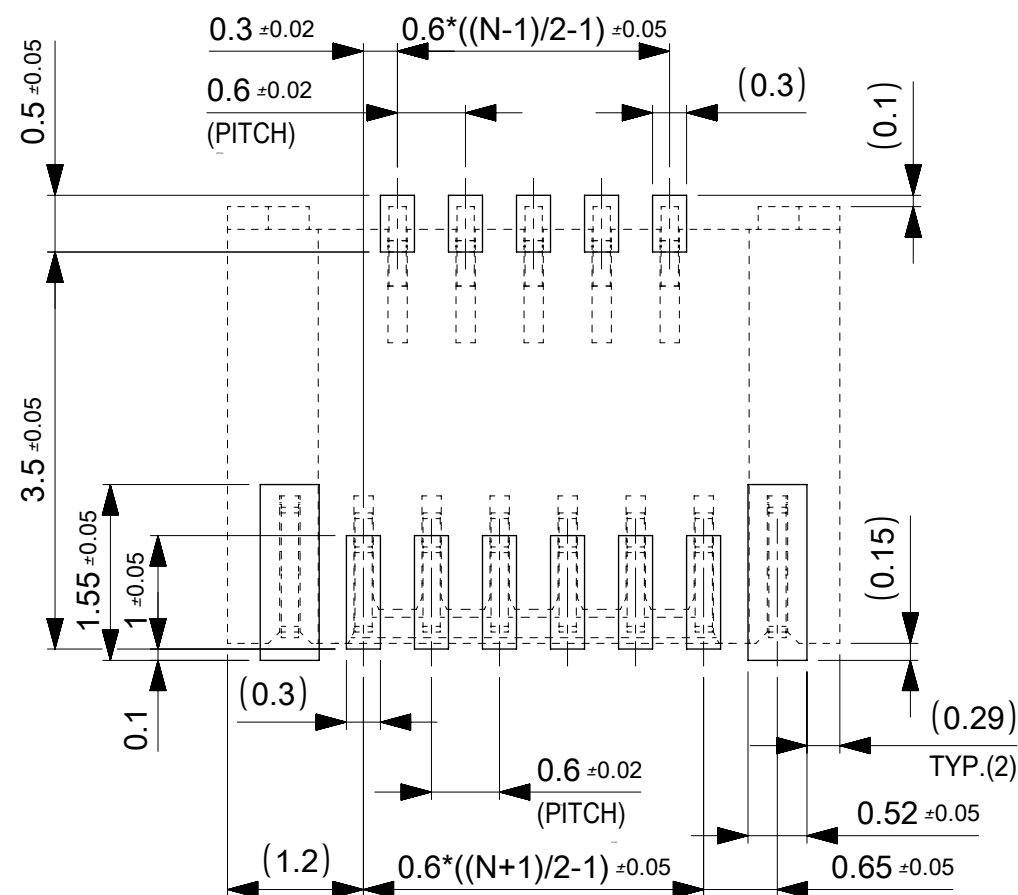
SECT. Y-Y

SECT. X-X

32mm幅キャリアテープ
32mm WIDTH CARRIER TAPE

32	33.5	15.4	17.6	5019125190	51
		14.2	16.4	5019124790	47
		13.6	15.8	5019124590	45
キャリアテープ幅 CARRIER TAPE WIDTH	C	(B)	(A)	オーダー番号 ORDER NO.	極数 Ckt
501912**90				MODEL NO.	

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																	
RELEASED	EC NO: 101883 DRWN: SHIRATA CHK'D: HIJIMA APPR: YNOGAWA	2015/11/24 2016/01/05 2016/01/05	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS		SCALE		molex								
					MM		NTS										
			ANGULAR TOL ± 3.0 °		DRWN BY		DATE		EMBSTP PKG FOR 0.3 FPC CONN (HGT=1.8MM) GOLD PLATING								
			4 PLACES ± 0.2		SHIRATA		2015/11/24										
			3 PLACES ± 0.2		CHK'D BY		DATE										
			2 PLACES ± 0.2		HIIJIMA		2016/01/05										
			1 PLACE ± 0.2		APPR BY		DATE										
			0 PLACES ± 0.2		YNOGAWA		2016/01/05		PRODUCT CUSTOMER DRAWING								
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWING SIZE		THIRD ANGLE PROJECTION									SERIES	
					A3				501912		SEE TABLE						
A	REV								DOCUMENT NUMBER			DOC TYPE		DOC PART		SHEET NUMBER	
									5019120000			PSD		000		4 OF 4	



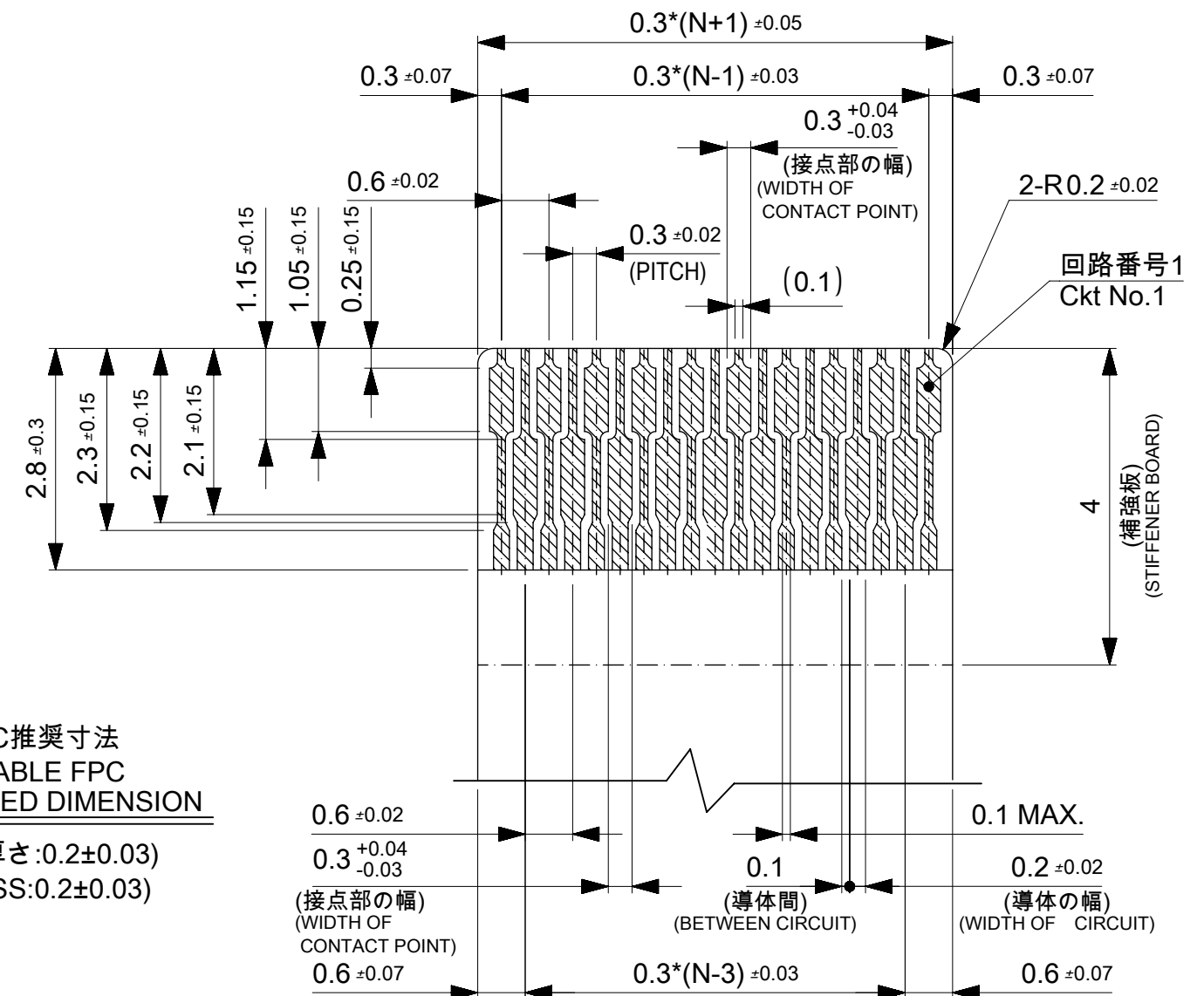
参考基板レイアウト図

(マウント面)
(MOUNTING SIDE)

注記 NOTES

1. 使用材料 MATERIAL

- | | |
|--------------|---|
| ハウジング | :耐熱性樹脂 ガラス充填 UL94V-0 |
| HOUSING | :HEAT RESISTANCE POLYMER(GLASS FILLED) UL94V-0 |
| アクチュエータ | :耐熱性樹脂 ガラス充填 UL94V-0 |
| ACTUATOR | :HEAT RESISTANCE POLYMER(GLASS FILLED) UL94V-0 |
| ターミナル | :銅合金(t=0.15)、ニッケル下地金メッキ |
| TERMINAL | :COPPER ALLOY(t=0.15),GOLD OVER NICKEL PLATING. |
| 金具 | :銅合金(t=0.15)、ニッケル下地スズメッキ |
| FITTING NAIL | :COPPER ALLOY(t=0.15),TIN OVER NICKEL PLATING. |
- ハウジングに黒点がある場合がありますが、問題はありません。
2. ソルダータール半田付け面、及び金具半田付け面の平坦度 : 0.1mm MAXIMUM.
COPLANARITY OF SOLDER TAILS AND FITTING NAILS TO BE 0.1mm MAXIMUM.
3. ELV AND RoHS COMPLIANT.



適合FPC推奨寸法
APPLICABLE FPC
RECOMMENDED DIMENSION

(仕上がり厚さ:0.2±0.03)
(THICKNESS:0.2±0.03)

FPCについて:

打抜き方向は導体側から補強板側を推奨致します。

導体部については軟銅箔35マイクロメートルまたは50マイクロメートルを推奨致します。

補強フィルム材質はポリイミドを推奨します。

ABOUT FPC

RECOMMENDED PUNCHER DIRECTION : FROM CONDUCTOR SIDE TO STIFFENER FILM SIDE.

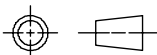
RECOMMENDED CONDUCTOR SPEC :

THICKNESS OF SOFT COPPER FOIL : 35 MICROMETER OR 50 MICROMETER.

RECOMMENDED MATERIAL :

STIFFENER FILM : POLYIMIDE

BONDING AGENT : THERMOSETTING BONDING AGENT.

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																	
RELEASED EC NO: 101883 DRWN: SHIRATA CHK'D: HIJIMA APPR: YNOGAWA	2015/11/24 2016/01/05 2016/01/05	GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 3.0 ° 4 PLACES ± 0.2 3 PLACES ± 0.2 2 PLACES ± 0.2 1 PLACE ± 0.2 0 PLACES ± 0.2 DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DIMENSION UNITS		SCALE		molex									
				MM		15:1											
				DRWN BY				DATE				0.3 FPC CONN E/O HSG ASSY (HGT=1.8MM) GOLD PLATING					
				SHIRATA				2015/11/24									
				CHK'D BY				DATE									
				HIJIMA				2016/01/05									
				APPR BY				DATE				PRODUCT CUSTOMER DRAWING					
				YNOGAWA				2016/01/05									
				DRAWING SIZE		THIRD ANGLE PROJECTION		501912		MATERIAL NUMBER				CUSTOMER			
				A3						SEE TABLE							
A		REV		DOCUMENT NUMBER				DOC TYPE		DOC PART		SHEET NUMBER					
				5019121000				PSD		000		2 OF 2					