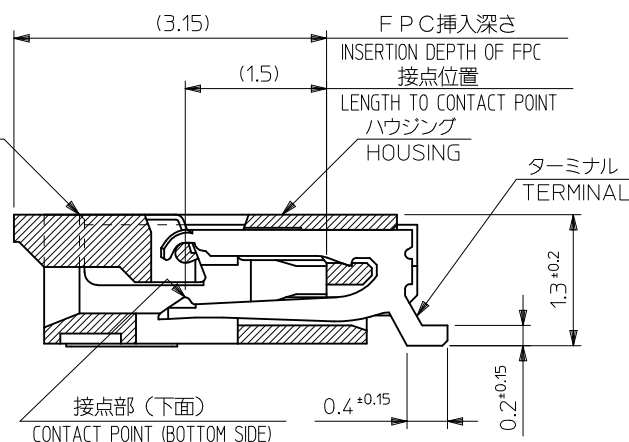
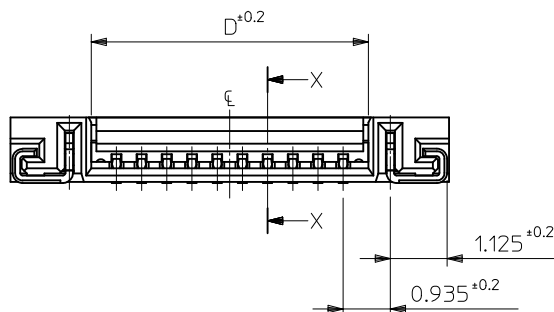
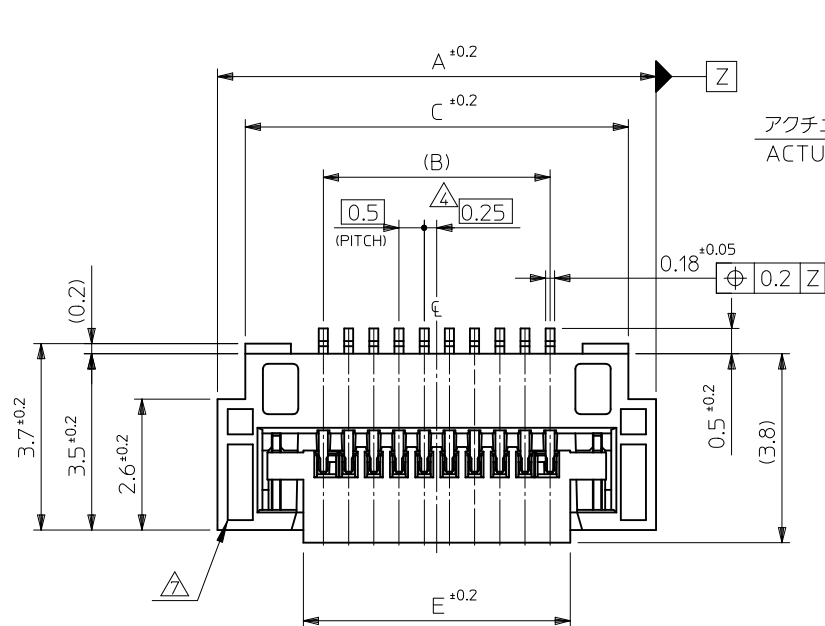
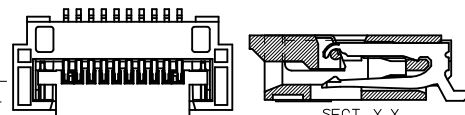


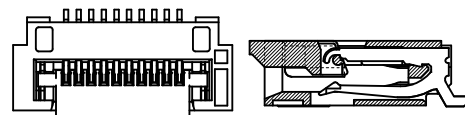


△ SECT. X-X



SECT. X-X

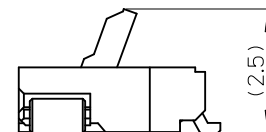
-30 極以上-
30 Ckt. OR MORE



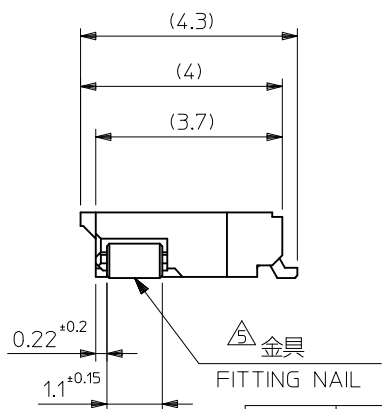
SECT. X-X

-29 極以下-
29 Ckt. OR LESS

△ 外観形状
APPEARANCE FORM



(アクチュエータが開口した状態)
(WHEN ACTUATOR IS OPENED)



△ 金具
FITTING NAIL

30.3	30.5	32.6	29.5	33.7	51296-6093	51296-6041	60
25.3	25.5	27.6	24.5	28.7	51296-5093	4 -5041	50
22.8	23.0	25.1	22.0	26.2	51296-4593	4 -4541	45
20.3	20.5	22.6	19.5	23.7	51296-4093	4 -4041	40
17.3	17.5	19.6	16.5	20.7	51296-3493	4 -3441	34
9.3	9.5	11.6	8.5	12.7	51296-1893	4 -1841	18
7.3	7.5	9.6	6.5	10.7	51296-1493	4 -1441	14
6.3	6.5	8.6	5.5	9.7	51296-1293	4 -1241	12
4.3	4.5	6.6	3.5	7.7	51296-0893	51296-0841	8
E	D	C	B	A	EMBOSSED TAPE	製品番号	極数
					ORDER No. オーダー番号	MATERIAL No.	Ckt

REVISED EC NO: J2011-0996 DRAWN: K.MURAKAMI 2010/11/01 CHKD: CHIKO APPR: K.MORIKAWA 2011/02/15	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± ---	DRAWN BY K.MURAKAMI	DATE 2004/02/06	TITLE 0.5 FPC CONN EASY ON HGT=1.3MM ASSY -LEAD FREE- MOLEX INCORPORATED				
		10 OVER 30 UNDER	± ---	CHECKED BY S.AIHARA	DATE 2004/02/06					
		30 OVER	± ---	APPROVED BY M.SASAO	DATE 2004/02/06					
		ANGULAR	± --- °	MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
	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						

F

E

D

C

B

A

F

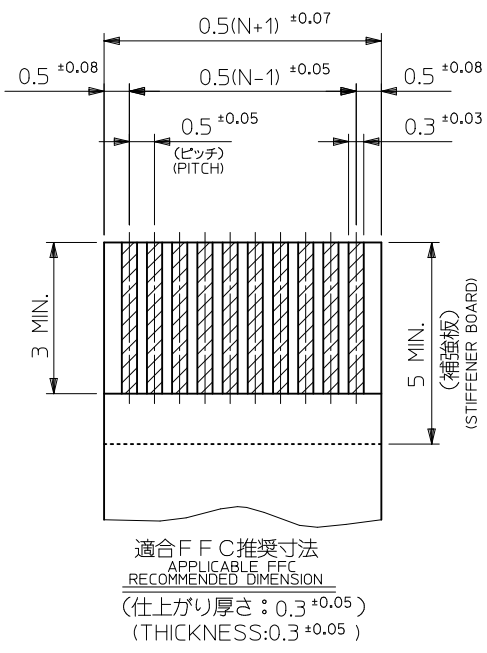
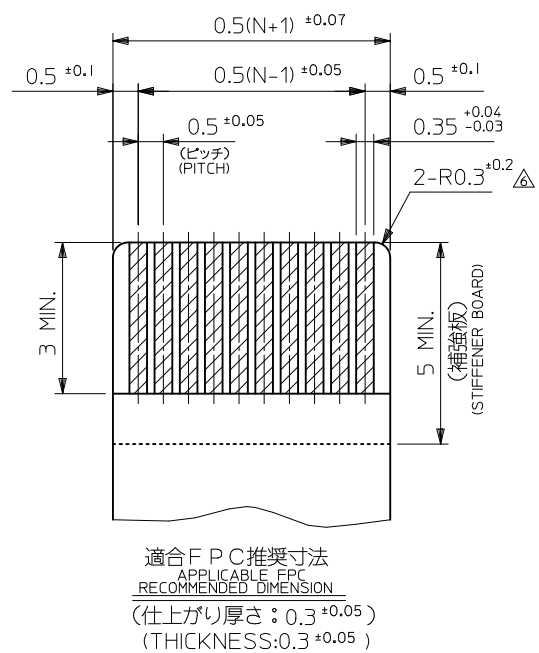
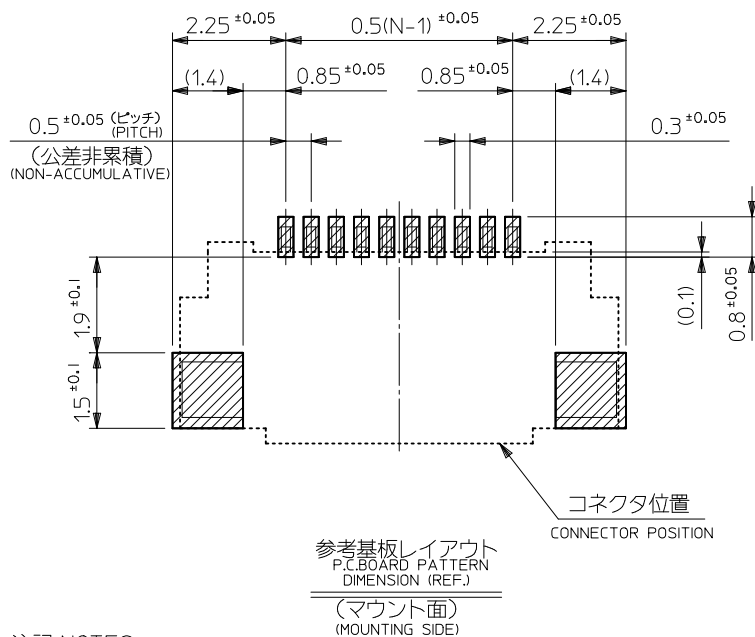
E

D

C

B

A



注記 NOTES

1. 使用材料 MATERIAL

ハウジング : 液晶ポリマー ガラス充填, UL94V-0 (ベージュ)
HOUSING LIQUID CRYSTAL POLYMER GLASS FILLED, UL94V-0 (BEIGE)
アクチュエータ: ポリアミド 9T ガラス充填, UL94V-0 (黒)
ACTUATOR POLYAMIDE 9T GLASS FILLED, UL94V-0 (BLACK)
ターミナル : リン青銅 (t=0.18)
TERMINAL PHOSPOR BRONZE
金具 : リン青銅 (t=0.15)
FITTING NAIL PHOSPOR BRONZE

2. メッキ仕様 PLATING

ターミナル TERMINAL
錫ビスマスメッキ 1.0マイクロメートル以上
ニッケル下地 1.0マイクロメートル以上
TIN-BISMUTH (Sn-Bi) 1.0 MICROMETER MINIMUM
OVER NICKEL PLATING 1.0 MICROMETER MINIMUM

金具 FITTING NAIL

錫メッキ 1.0マイクロメートル以上
ニッケル下地 1.0マイクロメートル以上
TIN (Sn) 1.0 MICROMETER MINIMUM
OVER NICKEL (Ni) PLATING 1.0 MICROMETER MINIMUM

3. エンボステープ梱包時は、アクチュエータが閉じた状態とする。

IN THE PACKAGE, ACTUATOR OF PART NO.51296-***41 SHOULD BE CLOSED.

偶数極に適用。
APPLY FOR EVEN CIRCUIT.

パターンはくり止め用金具
FITTING NAIL FOR PREVENTION OF PEELING OF PCB 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.

極数によりハウジング形状が異なるので注意のこと。
THE HOUSING SHAPE IS DIFFERENT ACCORDING TO THE CIRCUIT.

8 本製品は51296-***31の鉛フリー製品である。
THIS PRODUCT IS LEAD FREE OF 51296-***31.

FPC/FFC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。

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:

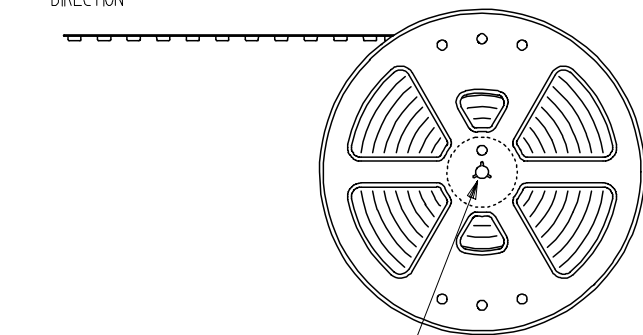
補強フィルム材質はポリイミドを推奨します。

接着剤は熱硬化接着剤を推奨します。

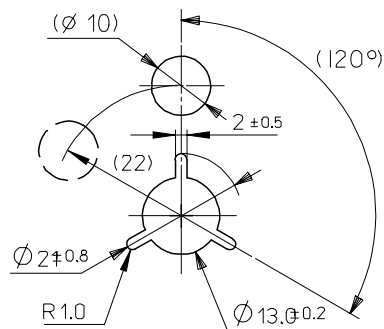
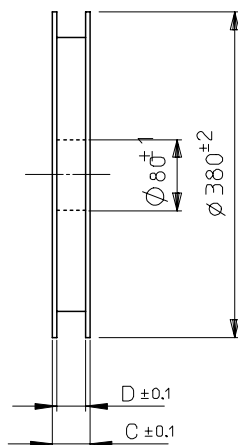
ABOUT FPC
RECOMMENDED MATERIAL :
STIFFENER FILM : POLYIMIDE
BONDING AGENT : THERMOSETTING BONDING AGENT

REVISED EC NO: J2011-0996 DRAWN: K.MURAKAMI 2010/11/01 CHKD: APPR: K.MORI KAWA 2011/02/15	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	MODEL NO. 51296-***41 THIRD ANGLE PROJECTION
		10 UNDER	± ---	DRAWN BY K. MURAKAMI	DATE 2004/02/06	TITLE 0.5 FPC CONN EASY ON HGT=1.3MM ASSY -LEAD FREE- MOLEX INCORPORATED		
		10 OVER 30 UNDER	± ---	CHECKED BY S. AIHARA	DATE 2004/02/06			
		30 OVER	± ---	APPROVED BY M. SASAO	DATE 2004/02/06			
		ANGULAR ± --- °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-51296-007		2 OF 2
	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

引き出し方向
PULL OUT
DIRECTION



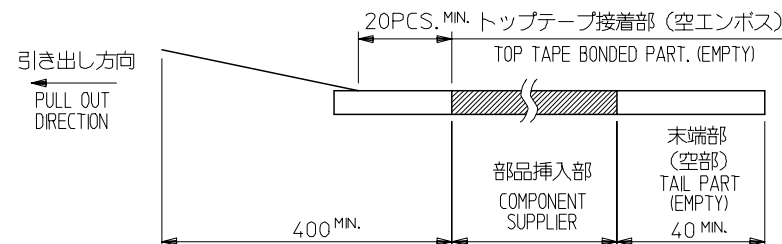
"Z"



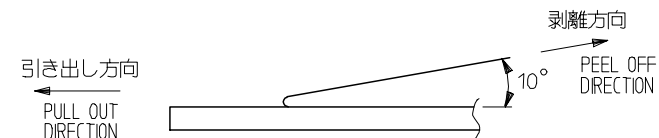
DETAIL "Z"

NOTES

- 製品詳細寸法については図面 SD-51296-007 を参照下さい。
RE DETAILED DIMENSION, SEE SD-51296-007
- 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

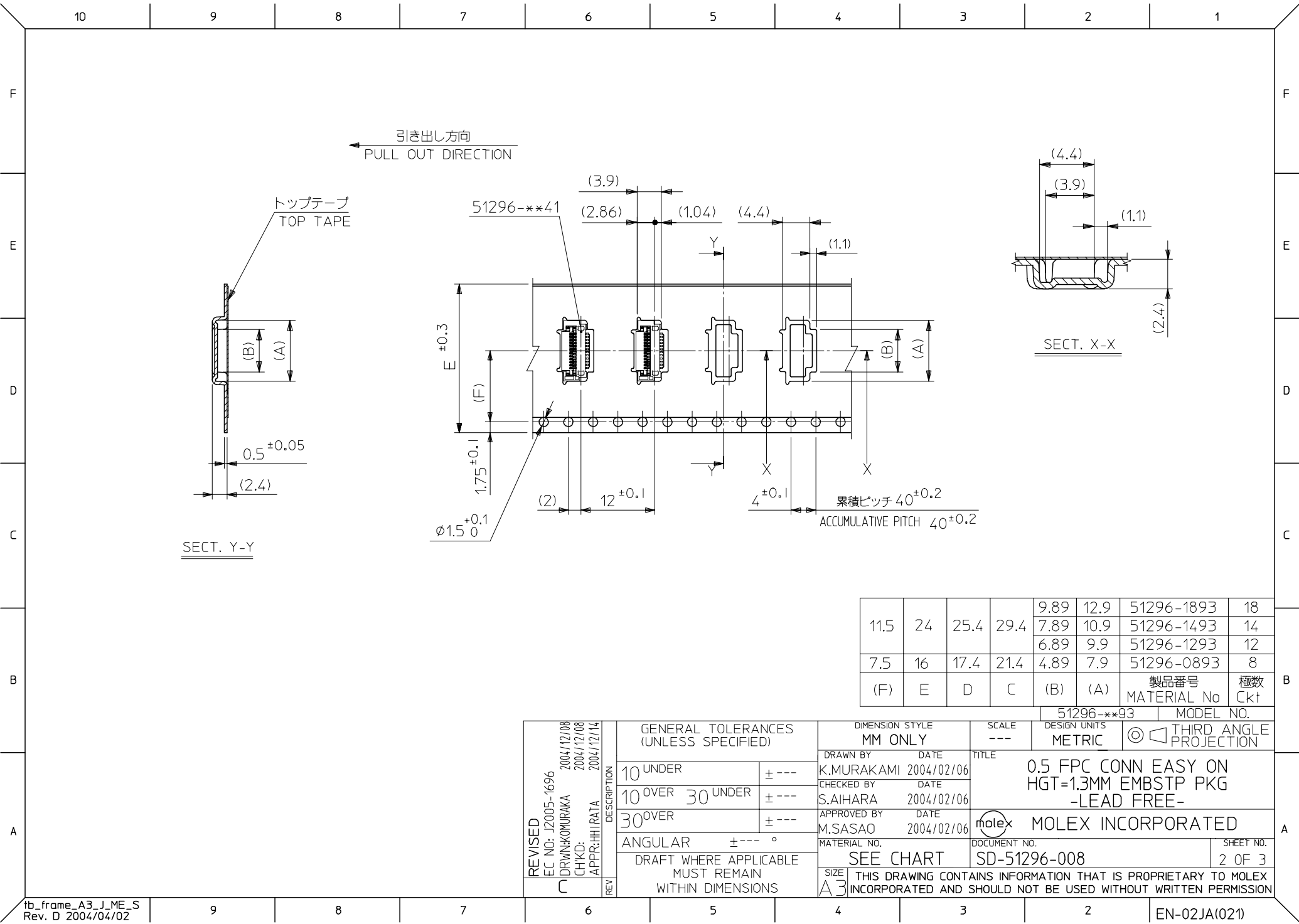


- トップテープの剥離強度：0.1N ～1.3N(10gf ～130gf)
(剥離方向は下図参照)
尚、本規格値は出荷時に適用。(但し、輸送時に剥離が発生しないこと。)
PEELING OFF FORCE OF TOP TAPE：0.1N ～1.3N(10gf ～130gf)
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)
THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT.
PEEL OFF SHOULD NOT BE ALLOWED, DURING TRANSPORTATION.



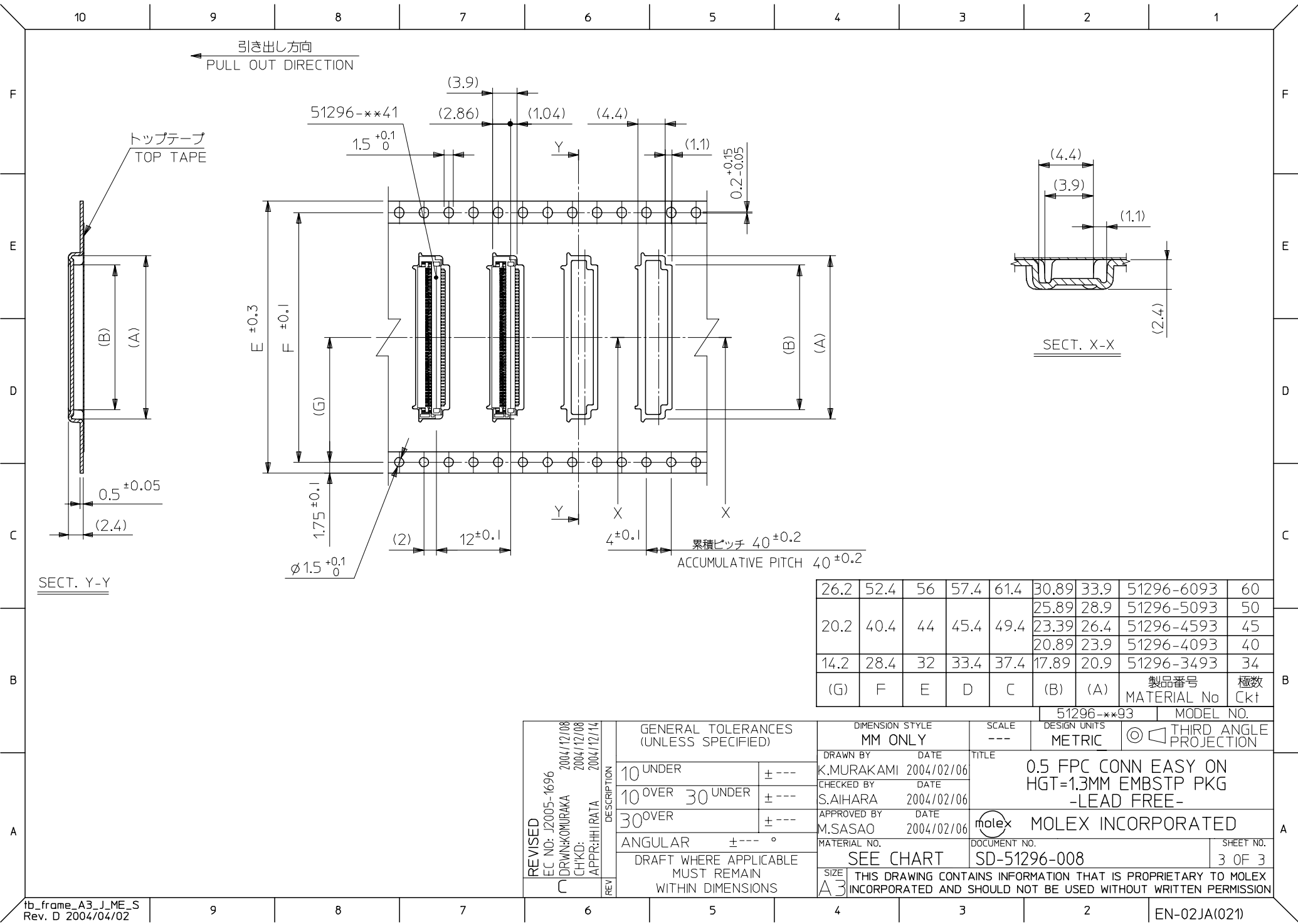
- 材料(MATERIAL)
キャリアテープ (CARRIER TAPE) :ポリプロピレン (POLYPROPYLENE)
トップテープ (TOPTAPE) : PET, PE, PEF
リール(REEL): ポリスチレン (PS) <リサイクル材を含む>
POLYSTYRENE (PS) <RECYCLE MATERIAL CONTAINED>
- 本製品は、51296-**92 の鉛フリー製品である。
THIS PRODUCT IS LEAD FREE OF 51296-**92.

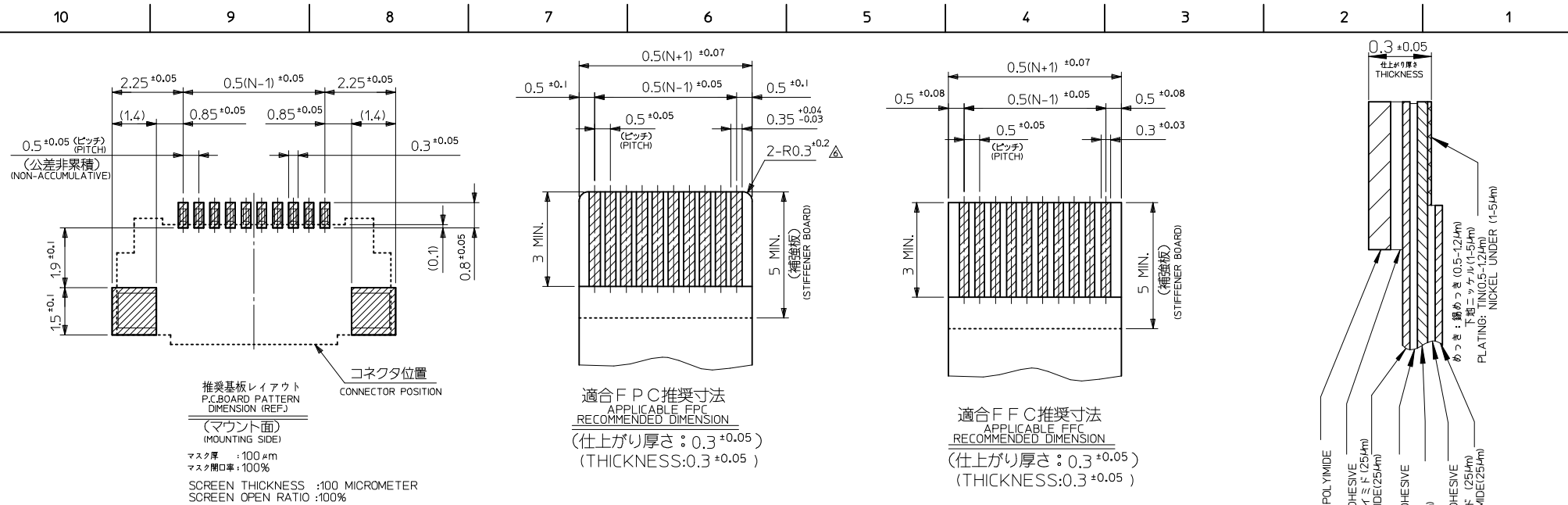
51296-**93		MODEL NO.	
DESIGN UNITS		THIRD ANGLE PROJECTION	
METRIC			
GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	
		MM ONLY	
10 UNDER		± ---	
10 OVER 30 UNDER		± ---	
30 OVER		± ---	
ANGULAR		± --- °	
DRAFT WHERE APPLICABLE		MUST REMAIN	
WITHIN DIMENSIONS		SEE CHART	
MATERIAL NO.		DOCUMENT NO.	
SIZE		SD-51296-008	
A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	



11.5	24	25.4	29.4	9.89	12.9	51296-1893	18
				7.89	10.9	51296-1493	14
				6.89	9.9	51296-1293	12
7.5	16	17.4	21.4	4.89	7.9	51296-0893	8
(F)	E	D	C	(B)	(A)	製品番号 MATERIAL No	極数 Ckt

REVISED EC NO: J2005-1696 DRAWN: K.MURAKAMI CHKD: S.AIHARA APPR: H.HIRATA	DESCRIPTION 2004/12/08 2004/12/08 2004/12/14	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± ---	DRAWN BY K.MURAKAMI	DATE 2004/02/06	TITLE 0.5 FPC CONN EASY ON HGT=1.3MM EMBSTP PKG -LEAD FREE-				
		10 OVER 30 UNDER	± ---	CHECKED BY S.AIHARA	DATE 2004/02/06					
		30 OVER	± ---	APPROVED BY M.SASAO	DATE 2004/02/06	MOLEX MOLEX INCORPORATED				
		ANGULAR ± --- °		MATERIAL NO.		DOCUMENT NO.				SHEET NO.
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-51296-008				2 OF 3
				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						





注記 NOTES

1. 使用材料 MATERIAL
- ハウジング : 液晶ポリマー(LCP)、ベージュ、ガラス充填、UL94V-0
HOUSING LIQUID CRYSTAL POLYMER, BEIGE, GLASS FILLED, UL94V-0
- アクチュエータ : ポリアミド(PPS)、黒、ガラス充填、UL94V-0
ACTUATOR POLYAMIDE, BLACK, GLASS FILLED, UL94V-0
- ターミナル : リン青銅 (t=0.18)
TERMINAL PHOSPOR BRONZE
- 金具 : リン青銅 (t=0.15)
FITTING NAIL PHOSPOR BRONZE
2. メッキ仕様 PLATING
- ターミナル TERMINAL
- 鍍銀ビスマスマッキ (1.0μm以上)
TIN SILVER BISMUTH PLATING (1.0 MICROMETER MINIMUM)
- 下地 : ニッケルめっき(1.0μm以上)
UNDER PLATING:NICKEL PLATING (1.0 MICROMETER MINIMUM)
- 金具 FITTING NAIL
- 鍍メッキ (1.0μm以上)
TIN PLATING (1.0 MICROMETER MINIMUM)
- 下地 : ニッケルめっき(1.0μm以上)
UNDER PLATING:NICKEL PLATING (1.0 MICROMETER MINIMUM)
3. エンボステープ梱包時は、アクチュエータが閉じた状態とする。
IN THE PACKAGE,ACTUATOR SHOULD BE CLOSED.

- △偶数極に適用。
APPLY FOR EVEN CIRCUIT.
- △パターンはくり止め用金具
FITTING NAIL FOR PREVENTION OF PEELING OF PCB 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.
- △極数によりハウジング形状が異なるので注意のこと。
THE HOUSING SHAPE IS DIFFERENT ACCORDING TO THE CIRCUIT.
8. テール及び金具の平坦度は、0.1ミリメートル以下とする。
TAIL AND FITTING NAIL COPLANARITY TO BE 0.1 MILLIMETERS.
9. ELV及びRoHS適合品
ELV AND RoHS COMPLIANT

FPCについて:

- 抜き方向は、導体側から補強板側を推奨致します。
- 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 PUNCHER DIRECTION:
FROM CONDUCTOR SIDE TO STIFFNER SIDE
- RECOMMENDED MATERIAL : STIFFENER FILM POLYIMIDE
- BONDING AGENT : THERMOSETTING AGENT
- PLEASE PUT APPROPRIATE AMOUNT OF ADHESIVE ON ADHEREND
BECAUSE THERE IS A POSSIBILITY THAT THE EXTRA ADHESIVE
CAUSES THE DEFECT IN ELECTRICAL CONTINUITY.

FFC/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35μmまたは50μmを推奨致します。

ABOUT FFC/FPC:

- RECOMMENDED PUNCHER DIRECTION:
FROM CONDUCTOR SIDE TO STIFFENER FILM SIDE.
- RECOMMENDED CONDUCTOR SPECIFICATION:
THICKNESS OF SOFT COPPER FOIL: 35MICROMETER OR 50 MICROMETER

FPC構成推奨仕様
STRUCTURE OF FPC

SEE SHEET 1 OF 2 EC NO: J2014-0096 DRAWN: AISHI CHKD: TAKAHASHI APPR: YNOGAWA 2013/07/18 2013/07/18 2013/08/19	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± ---	AISHI	2012/09/19	TITLE 0.5MM FPC CONN F/F E/O HOUSING ASSY				
		10 OVER 30 UNDER	± ---	KTAKAHASHI	2012/09/19					
		30 OVER	± ---	APPROVED BY KMORIKAWA	DATE 2013/03/15	molex				
		ANGULAR ± --- °		MATERIAL NO.						
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET1		SD-51296-017			2 OF 2		
REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									