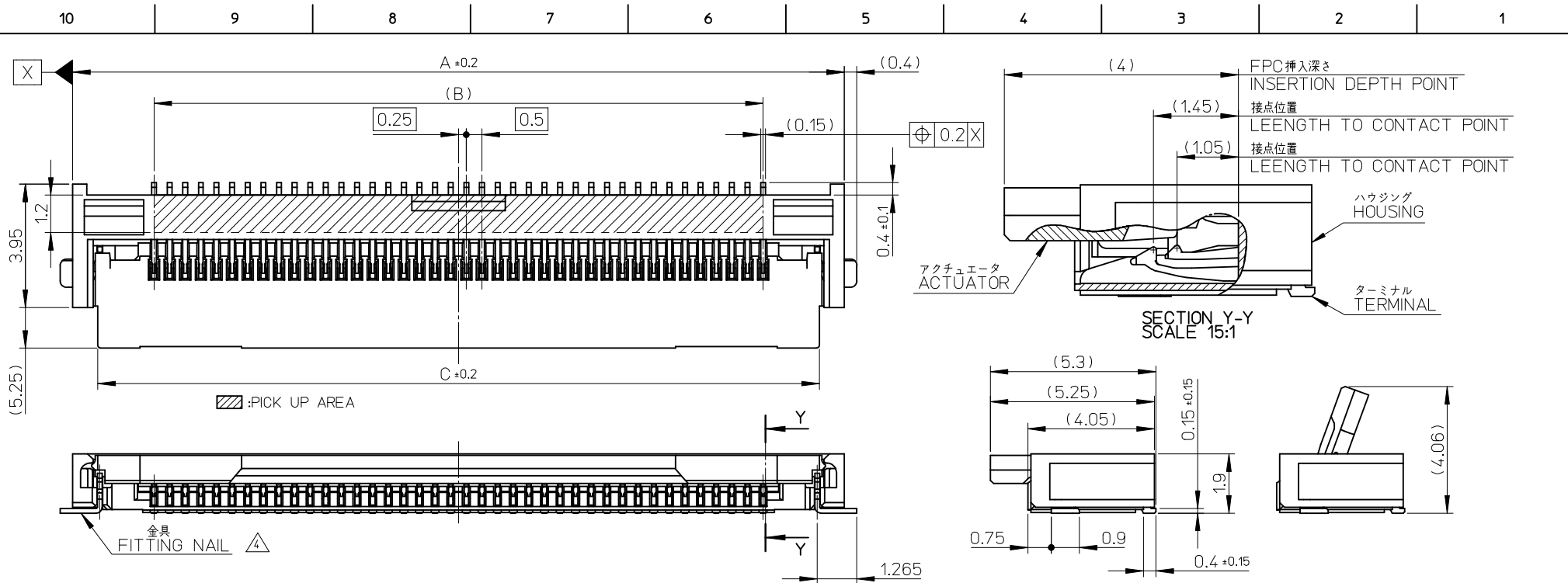




注記 NOTES

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 ガラス充填, UL94V-0(黒)
ACTUATOR : POLYAMIDE GLASS FILLED, UL94V-0(BLACK)

ターミナル : リン青銅(t=0.15)
TERMINAL : PHOSPHOR BRONZE

金具 : リン青銅(t=0.15)
FITTING NAIL : PHOSPHOR BRONZE

2. めっき仕様 PLATING

ターミナル TERMINAL
コンタクト部 : 部分金めっき (0.05 μm以上)
テール部 : 部分金めっき
下地 : ニッケルめっき (1.0 μm以上)

CONTACT AREA : SEPARATED GOLD PLATING
(0.05 MICROMETER MIN.)
SOLDER TAIL AREA : SEPARATED GOLD PLATING
UNDERPLATE : NICKEL OVERALL
(1.0 MICROMETER MIN.)

金具 FITTING NAIL

銅めっき (1.0 μm以上)
下地 : ニッケルめっき (1.0 μm以上)
TIN PLATING (1.0 MICROMETER MIN.)
UNDER PLATING : NICKEL PLATING
(1.0 MICROMETER MIN.)

3. エンボスター プラグ時は、アクチュエータが閉じた状態とする。
IN THE PACKAGE, ACTUATOR OF PART SHOULD BE CLOSED.

△ バターン剥離止め用金具
FITTING NAIL FOR PREVENTION OF
PEELING OF P.C.B. PATTERN.

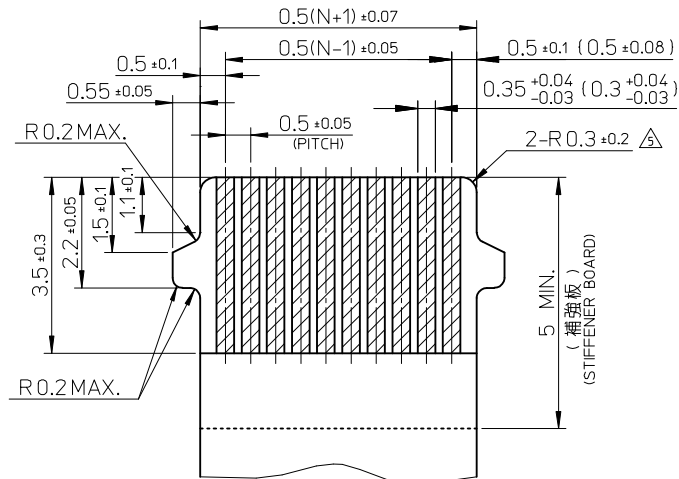
△ R0.3は、FPC導体部にかからないこと。
R0.3 MUST NOT BE OVERLAPPED
TO PATTERN OF FPC.

6. N: 極数 N: CIRCUIT.

7. ELV及びRoHS適合品
ELV AND RoHS COMPLIANT

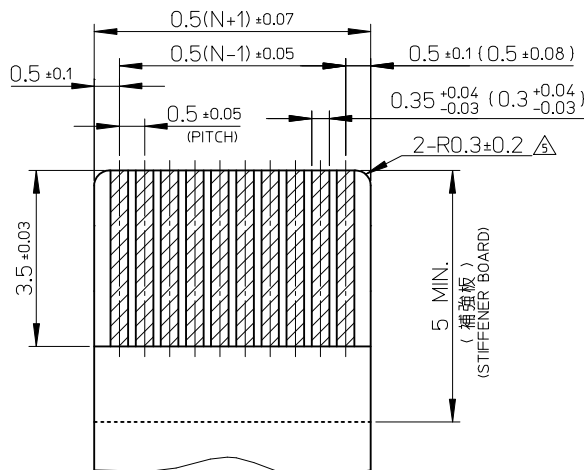
8. テールと金具を併せた平坦度は0.1mm以下とする。
TAILS AND NAILS COPLANALITY
TO BE 0.1mm MAX.

REVISED		DESCRIPTION		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
EC NO: J2015-1582	2015/05/28	DRW: NIKONDO	2015/05/28	0.25 UNDER	±0.03	DRAWN BY	DATE	8:1	METRIC	0.5 FPC CONN ZIF E/O 2 CONTACTS TYPE HSG ASSY (H=1.9)	
CH: KDK TAKAHASHI	2015/05/29	CHK: KDK TAKAHASHI	2015/05/29	0.25 OVER 0.5 UNDER	±0.05	JASANUMA	2014/02/25				
APPR: KMORI KAWA	2015/06/26	CHK: KDK TAKAHASHI	2015/06/26	0.5 OVER 1.0 UNDER	±0.1	CHECKED BY	DATE			molex	
		CHK: KDK TAKAHASHI	2015/06/26	1.0 OVER 10 UNDER	±0.2	KTAKAHASHI	2014/07/28				
		CHK: KDK TAKAHASHI	2015/06/26	10 OVER 30 UNDER	±0.25	APPROVED BY	DATE			SD-505110-001	
		CHK: KDK TAKAHASHI	2015/06/26	30 OVER	±0.3	YNOGAWA	2014/11/10				
		CHK: KDK TAKAHASHI	2015/06/26	ANGULAR ±1 °		MATERIAL NO.				1 OF 3	
		CHK: KDK TAKAHASHI	2015/06/26			SEE SHEET 3					
		CHK: KDK TAKAHASHI	2015/06/26							THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
		CHK: KDK TAKAHASHI	2015/06/26								



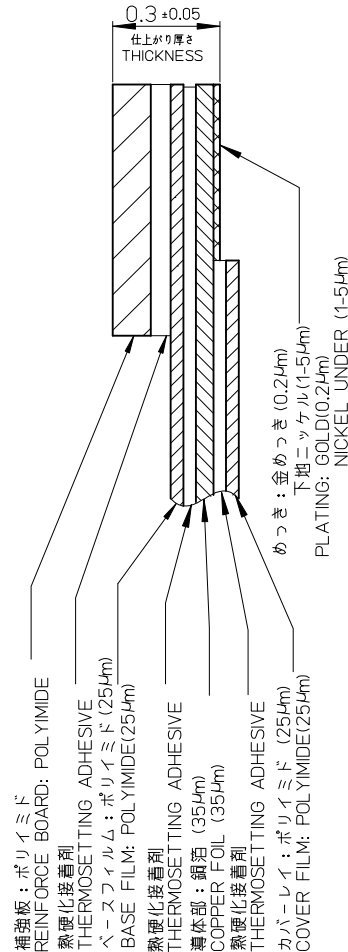
適合FPC/FFC推奨寸法
APPLICABLE FPC/FFC
RECOMMENDED DIMENSION

(): FFCに適用
(): APPLY TO FFC



耳無し適合FPC/FFC推奨寸法
APPLICABLE NON-TAB FPC/FFC
RECOMMENDED DIMENSION

(): FFCに適用
(): APPLY TO FFC



FPC構成推奨仕様
STRUCTURE OF FPC

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。
導体部については軟箔銅35 μ mまたは50 μ mを推奨します。
FFCに規定された定格温度がFFC単体前提である場合が御座います。
コネクタと組み合わせての実使用に置いて、接着層が劣化するなどの信頼性を満足できないケースを回避するため、
実機での評価/確認をお願い致します。

RECOMMENDED PUNCHING DIRECTION: FROM CONDUCTOR SIDE TO STIFFENER SIDE

RECOMMENDED CONDUCTOR SPEC: SOFT COPPER FOIL

RECOMMENDED CONDUCTOR THICKNESS: 35 MICROMETER OR 50 MICROMETER

NOTE: WHEN ACTUALLY USING IT WITH CONNECTOR, PLEASE DO THE EVALUATION AND THE
CONFIRMATION WITH AN ACTUAL EQUIPMENT TO EVADE THE CASE WHERE RELIABILITY
CANNOT BE FILLED (THE ADHESIVE LINE OF FFC IS DETERIORATED ETC.)

FPCについて ABOUT FPC

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25 μ 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。

RECOMMENDED MATERIAL/THICKNESS.

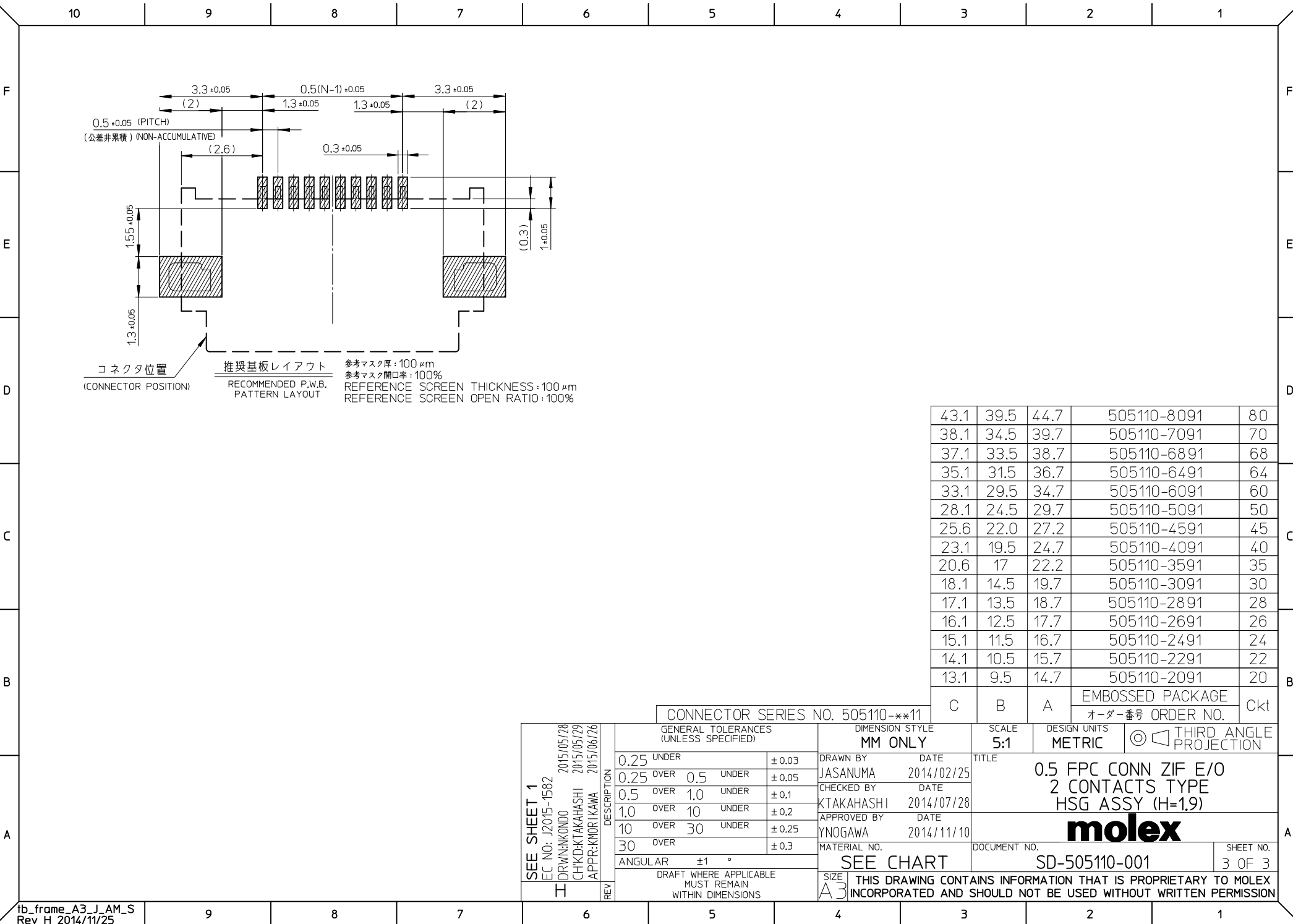
RECOMMENDED STIFFENER MATERIAL: POLYIMIDE

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.
THERE IS A POSSIBILITY THAT THE PRESCRIPT TEMPERATURE OF FFC IS SET TO SINGLE IT.

SEE SHEET 1 EC NO: J2015-4582 DRAWN:KONDO CHK'D:K TAKAHASHI APPR:K MORIKAWA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 10:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		0.25 UNDER		±0.03	DRAWN BY	DATE	TITLE 0.5 FPC CONN ZIF E/O 2 CONTACTS TYPE HSG ASSY (H=1.9)				
		0.25 OVER 0.5 UNDER		±0.05	JASANUMA	2014/02/25					
		0.5 OVER 1.0 UNDER		±0.1	CHECKED BY	DATE	molex				
		1.0 OVER 10 UNDER		±0.2	KTAKAHASHI	2014/07/28					
		10 OVER 30 UNDER		±0.25	APPROVED BY	DATE	SD-505110-001				
		30 OVER		±0.3	YNOGAWA	2014/11/10					
		ANGULAR ±1 °			MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
					SEE SHEET 3				2 OF 3		
		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						



コネクタ位置
(CONNECTOR POSITION)

推奨基板レイアウト
RECOMMENDED P.W.B.
PATTERN LAYOUT

参考マスク厚: 100 μm
参考マスク開口率: 100%
REFERENCE SCREEN THICKNESS: 100 μm
REFERENCE SCREEN OPEN RATIO: 100%

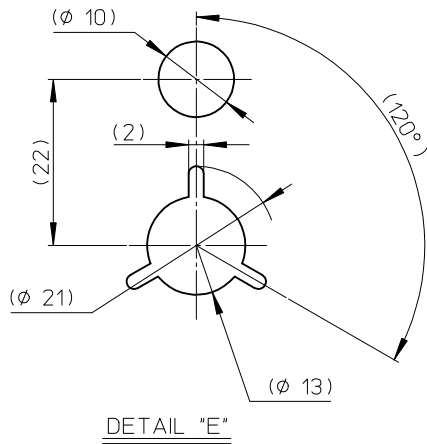
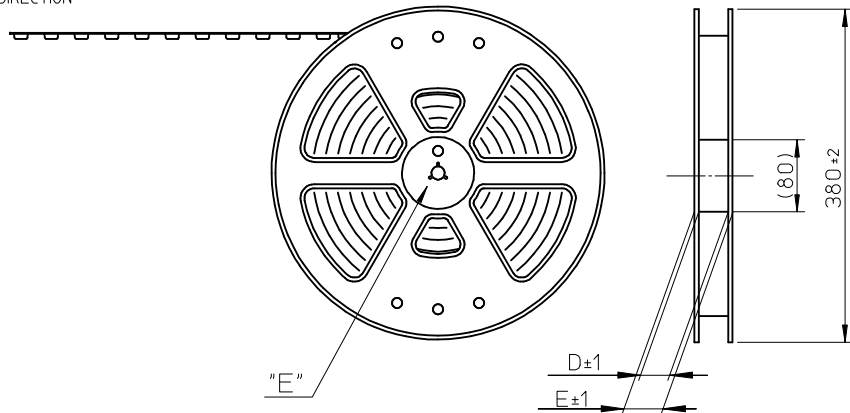
43.1	39.5	44.7	505110-8091	80
38.1	34.5	39.7	505110-7091	70
37.1	33.5	38.7	505110-6891	68
35.1	31.5	36.7	505110-6491	64
33.1	29.5	34.7	505110-6091	60
28.1	24.5	29.7	505110-5091	50
25.6	22.0	27.2	505110-4591	45
23.1	19.5	24.7	505110-4091	40
20.6	17	22.2	505110-3591	35
18.1	14.5	19.7	505110-3091	30
17.1	13.5	18.7	505110-2891	28
16.1	12.5	17.7	505110-2691	26
15.1	11.5	16.7	505110-2491	24
14.1	10.5	15.7	505110-2291	22
13.1	9.5	14.7	505110-2091	20

CONNECTOR SERIES NO. 505110-**11

SEE SHEET 1 EC NO.: J2015-1582 DRWN:KONDO 2015/05/28 CHKD:KATAHASHI 2015/05/29 APPR:KMORI KAWA 2015/06/26	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 5:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
		0.25 UNDER		± 0.03	DRAWN BY	DATE	TITLE 0.5 FPC CONN ZIF E/O 2 CONTACTS TYPE HSG ASSY (H=1.9)			
		0.25 OVER	0.5 UNDER	± 0.05	JASANUMA	2014/02/25				
		0.5 OVER	1.0 UNDER	± 0.1	CHECKED BY	DATE				
		1.0 OVER	10 UNDER	± 0.2	KATAHASHI	2014/07/28				
		10 OVER	30 UNDER	± 0.25	APPROVED BY	DATE				
		30 OVER		± 0.3	YNOGAWA	2014/11/10				
		ANGULAR		±1 °	MATERIAL NO.		DOCUMENT NO.	SHEET NO.		
					SEE CHART		SD-505110-001			3 OF 3
		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				

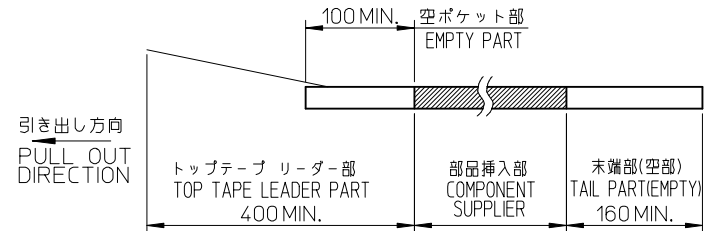
引き出し方向

PULL OUT
DIRECTION



NOTES

1. 梱包数量 : 3000個/リール
NUMBER OF CONNECTORS : 3000PIECES/REEL
2. リードテープ長さ
LEAD TAPE LENGTH



3. カバーテープの剥離強度については、IEC60286-3に準拠
COVER TAPE PEEL FORCE IS DEFINED BY IEC 60286-3.
4. 製品詳細寸法については図面 SD-505110-001を参照下さい。
FOR DIMENSIONS OF PRODUCT, REFER TO SD-505110-001.
5. 材料 MATERIAL
キャリアテープ : ポリスチレン
CARRIER TAPE : POLYSTYRENE
トップテープ : ポリエチレンテレフタレート, ポリエチレン
TOP TAPE : POLYETHYLENE TEREPHTHALATE , POLYETHYLENE
リール : ポリスチレン<リサイクル材を含む>
REEL : POLYSTYRENE<RECYCLE MATERIAL CONTAINED>
6. ELV及びRoHS適合品 ELV AND RoHS COMPLIANT

REVISED	EC NO: J2015-1582	DRWN:KONDO 2015/05/28	CHKD:KATAHASHI 2015/05/29	APPR:KMORI KAWA 2015/06/26	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
						0.25 UNDER	UNDER	± 0.03	DRAWN BY	DATE	TITLE 0.5 FPC CONN ZIF E/O 2 CONTACTS TYPE EMBSTP PACKAGE (H=1.9)			
						0.25 OVER	0.5 UNDER	± 0.05	JASANUMA	2014/02/25				
						0.5 OVER	1.0 UNDER	± 0.1	CHECKED BY	DATE	molex			
						1.0 OVER	10 UNDER	± 0.2	KTAKAHASHI	2014/07/30				
						10 OVER	30 UNDER	± 0.25	APPROVED BY	DATE	SEE SHEET 2			
						30 OVER		± 0.3	YNOGAWA	2014/11/10				
						ANGULAR ±1 °			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

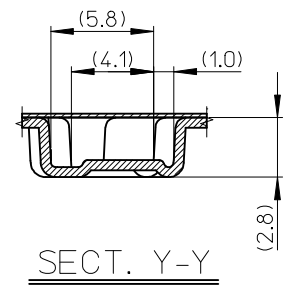
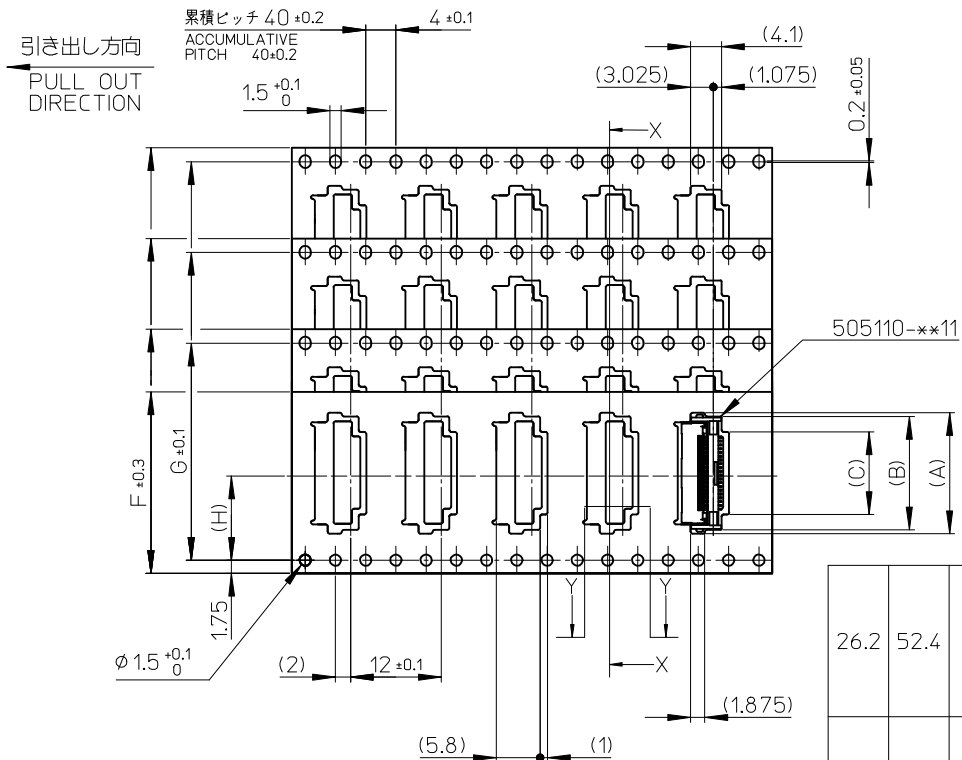
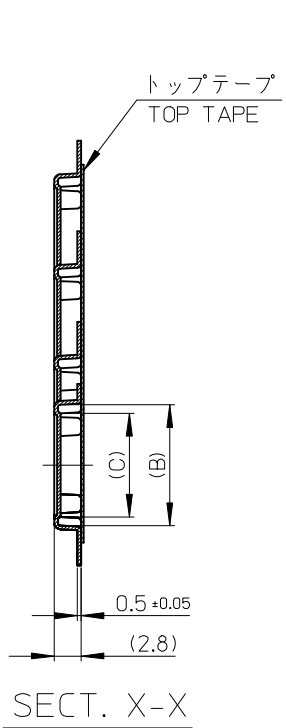
E

D

C

B

A



26.2	52.4	56	61.4	57.4	40.9	44.9	46	505110-8091	80
					35.9	39.9	41	505110-7091	70
					34.9	38.9	40	505110-6891	68
					32.9	36.9	38	505110-6491	64
					30.9	34.9	36	505110-6091	60
20.2	40.4	44	49.4	45.4	25.9	29.9	31	505110-5091	50
					23.4	27.4	28.5	505110-4591	45
					20.9	24.9	26	505110-4091	40
					18.4	22.4	23.5	505110-3591	35
14.2	28.4	32	37.4	33.4	15.9	19.9	21	505110-3091	30
					14.9	18.9	20	505110-2891	28
					13.9	17.9	19	505110-2691	26
					12.9	16.9	18	505110-2491	24
					11.9	15.9	17	505110-2291	22
11.5	---	24	29.4	25.4	10.9	14.9	16	505110-2091	20
H	G	F	E	D	C	B	A	EMBOSSED PACKAGE オーダー番号 ORDER NO.	Ckt

SEE SHEET 1

EC NO.: J2015-1582

DRWN:KONDO 2015/05/28

CHKD:KATAHASHI 2015/05/29

APPR:KMORI KAWA 2015/06/26

DESCRIPTION

0.25 UNDER	UNDER	±0.03
0.25 OVER	0.5 UNDER	±0.05
0.5 OVER	1.0 UNDER	±0.1
1.0 OVER	10 UNDER	±0.2
10 OVER	30 UNDER	±0.25
30 OVER		±0.3
ANGULAR	±1 °	

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

GENERAL TOLERANCES
(UNLESS SPECIFIED)

DIMENSION STYLE
MM ONLY

SCALE

DESIGN UNITS
METRIC

THIRD ANGLE
PROJECTION

DRAWN BY
JASANUMA

CHECKED BY
KATAHASHI

APPROVED BY
YNOGAWA

MATERIAL NO.

DATE
2014/02/25

DATE
2014/07/30

DATE
2014/11/10

TITLE
0.5 FPC CONN ZIF E/O
2 CONTACTS TYPE
EMBSTP PACKAGE (H=1.9)

molex

SEE CHART

SD-505110-002

DOCUMENT NO.

SHEET NO.
2 OF 2

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