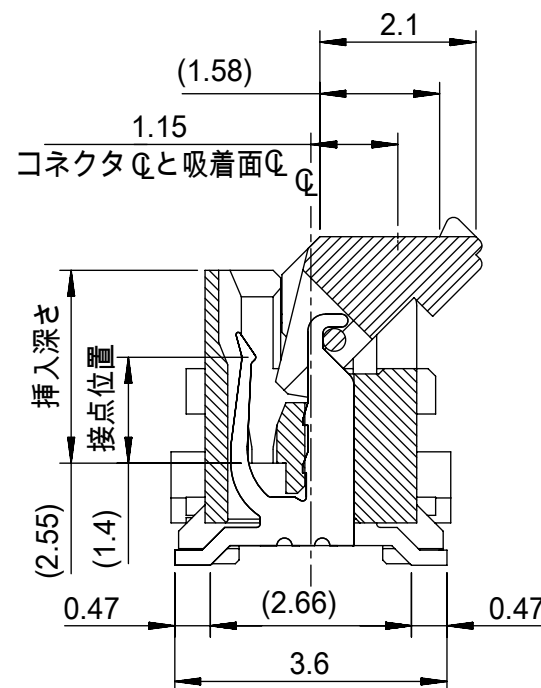
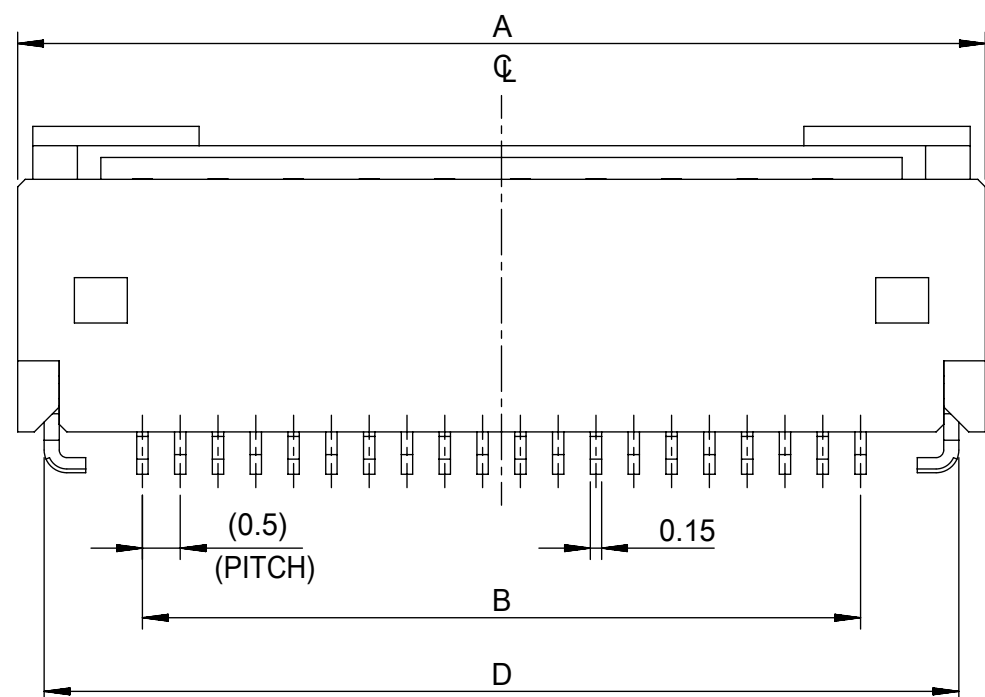
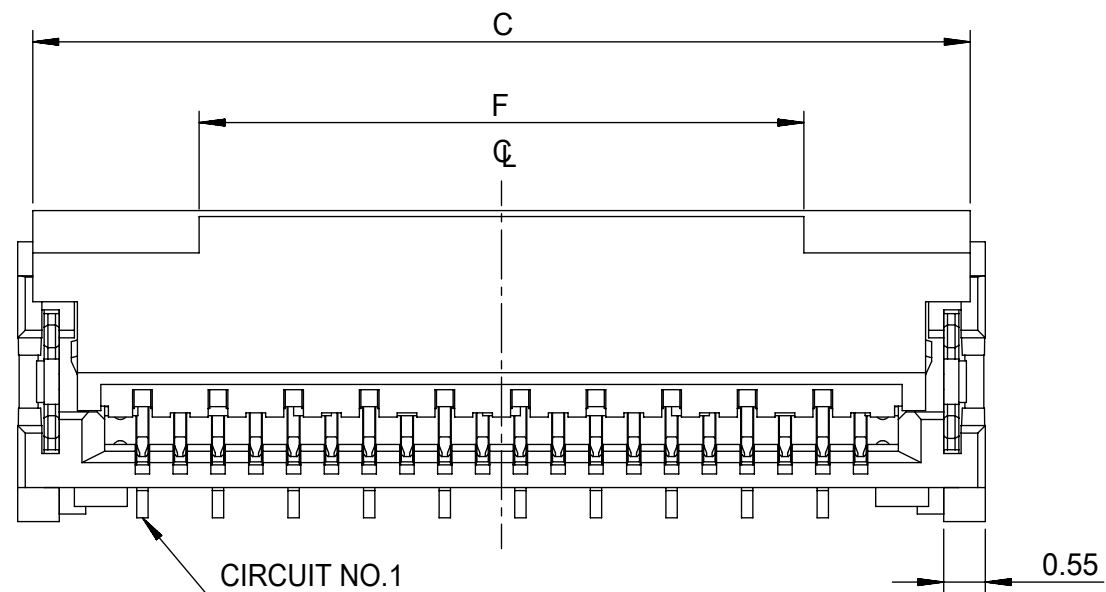
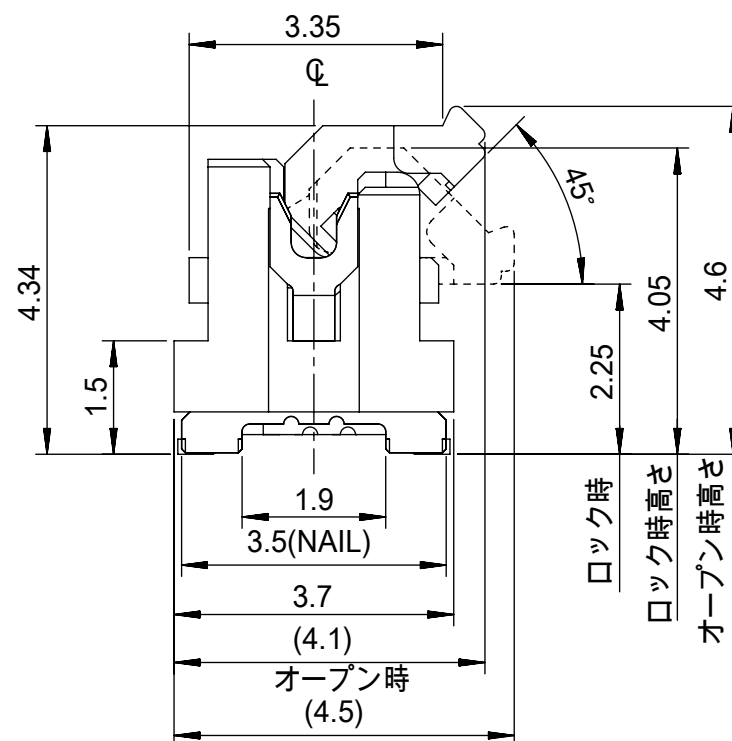




断面図 (参考)



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(白)
HOUSING LIQUID CRYSTAL POLYMER
GLASS FILLED, UL94V-0 (WHITE)
アクチュエータ : ポリアミド 9T, ガラス充填, UL94V-0(茶)
ACTUATOR POLYAMIDE 9T, GLASS FILLED,
UL94V-0 (BROWN)
ターミナル : 銅合金(t=0.15)
TERMINAL COPPER ALLOY
金具 : 銅合金(t=0.2)
FITTING NAIL COPPER ALLOY

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(0.1μm以上)
 テール部：部分金めっき
 下地：ニッケルめっき(1.0μm以上)
 CONTACT AREA：SEPARATED GOLD PLATING
 (0.1 MICROMETER MINIMUM)
 SOLDER TAIL AREA：SEPARATED GOLD PLATING
 UNDERPLATE：NICKEL OVERALL
 金具 FITTING NAIL
 ニッケル下地 鍍めつき
 鍍めつき(1.0μm以上)
 ニッケルめっき(1.0μm以上)
 TIN(Sn) OVER NICKEL(Ni) PLATING.
 TIN PLATING (1.0 MICROMETER MINIMUM)
 NICKEL PLATING (1.0 MICROMETER MINIMUM)

3. テールと金具を併せた平坦度は 0.1ミリメートル以下(リフロ一前)

TAILS AND NAILS COPLANARITY
TO BE 0.1 MAX. (BEFORE REFLOW)

4. ELV及びRoHS適合品

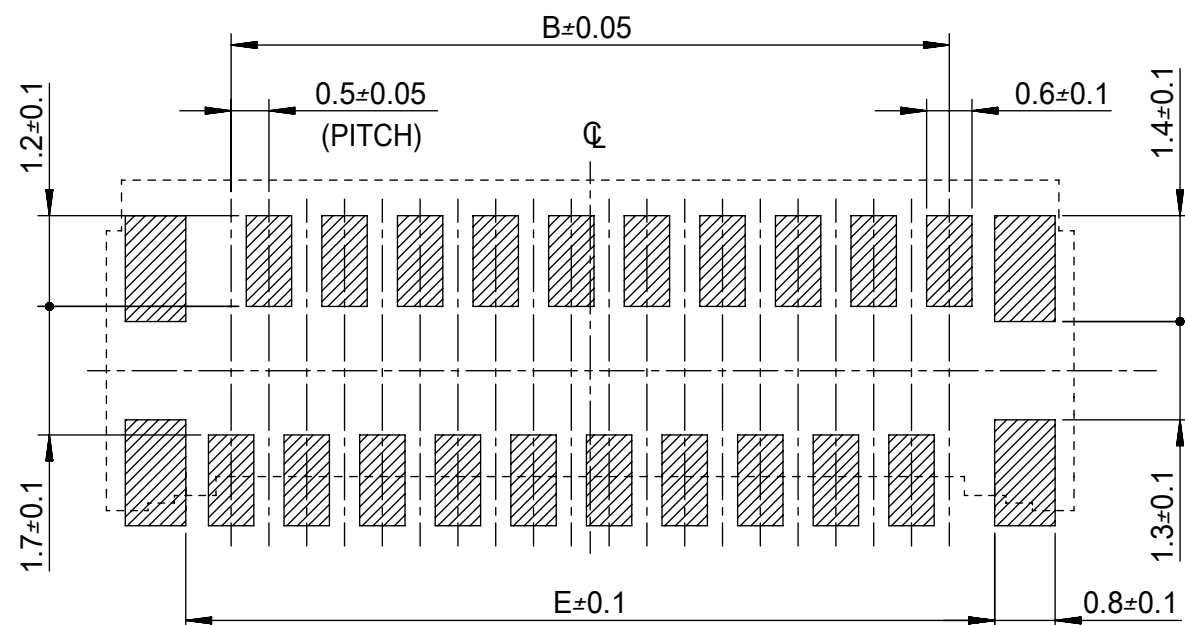
ELV AND RoHS COMPLIANT

△5 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.

8	35.7	37.1	37.4	34.5	37.8	501951-7010	70
	30.7	32.1	32.4	29.5	32.8	501951-6010	60
	25.7	27.1	27.4	24.5	27.8	501951-5010	50
	23.2	24.6	24.9	22.0	25.3	501951-4510	45
	20.7	22.1	22.4	19.5	22.8	501951-4010	40
	16.7	18.1	18.4	15.5	18.8	501951-3210	32
	15.7	17.1	17.4	14.5	17.8	501951-3010	30
	12.7	14.1	14.4	11.5	14.8	501951-2410	24
	11.7	13.1	13.4	10.5	13.8	501951-2210	22
	10.7	12.1	12.4	9.5	12.8	501951-2010	20
F	E	D	C	B	A	EMBOSSSED PACKAGE オーダー番号 ORDER NO.	CIRCUITS

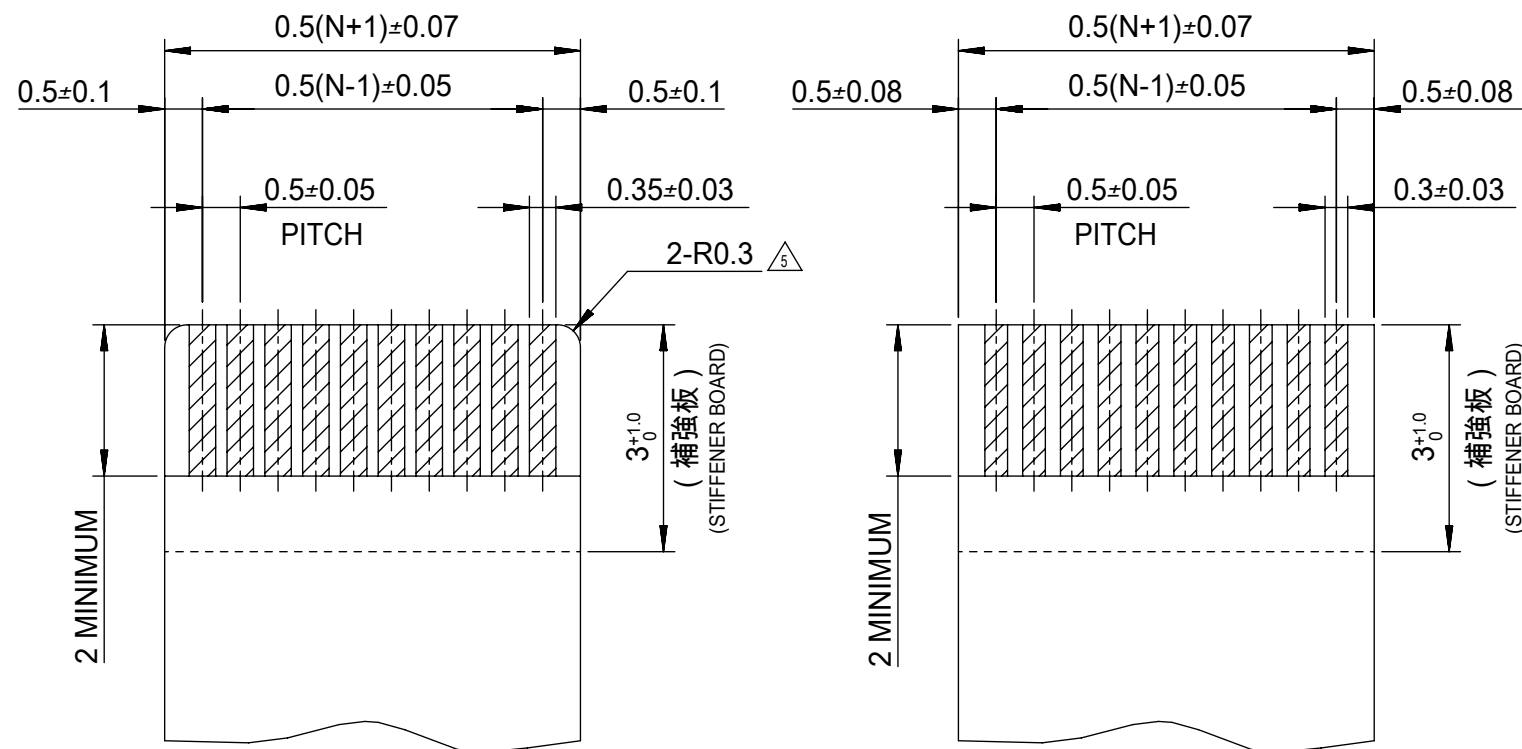
CONNECTOR SERIES NO. 501951-**19

GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS		SCALE		CURRENT REV DESC: REVISED				molex							
		mm		10:1													
		0.25 UNDER		±0.03		GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 1.0° 4 PLACES ± 0.2 3 PLACES ± 0.25 2 PLACES ± 0.3 1 PLACE ± 0.05 0 PLACES ± DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		EC NO: 637653 DRWN: TNAKAGAWA01 CHK'D: HSHIMOYAMA APPR: SHOSHIKAWA		2020/05/15 2020/05/15 2020/05/15		0.5 FPC CONN. HSG ASSY EASY ON / STRAIGHT (GOLD)					
		0.25 OVER 0.5 UNDER		±0.05													
		0.5 OVER 1.0 UNDER		±0.1								PRODUCT CUSTOMER DRAWING					
		1.0 OVER 10 UNDER		±0.2													
		10 OVER 30 UNDER		±0.25								DOCUMENT NUMBER		DOC TYPE		DOC PART	
30 OVER		±0.3		SD-501951-003								PSD		001		G	
ANGULAR		±1°		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER			
						A3-SIZE		501951		SEE TABLE		GENERAL MARKET		1 OF 2			



参考基板レイアウト (マウント面)

P.C.BOARD PATTERN DIMENSION(REF.)
(MOUNT AREA)



適合FPC推奨寸法
APPLICABLE FPC
RECOMMENDED DIMENSION

(仕上がり厚さ : 0.3 ± 0.05)
(THICKNESS : 0.3 ± 0.05)

適合FFC推奨寸法
APPLICABLE FFC
RECOMMENDED DIMENSION

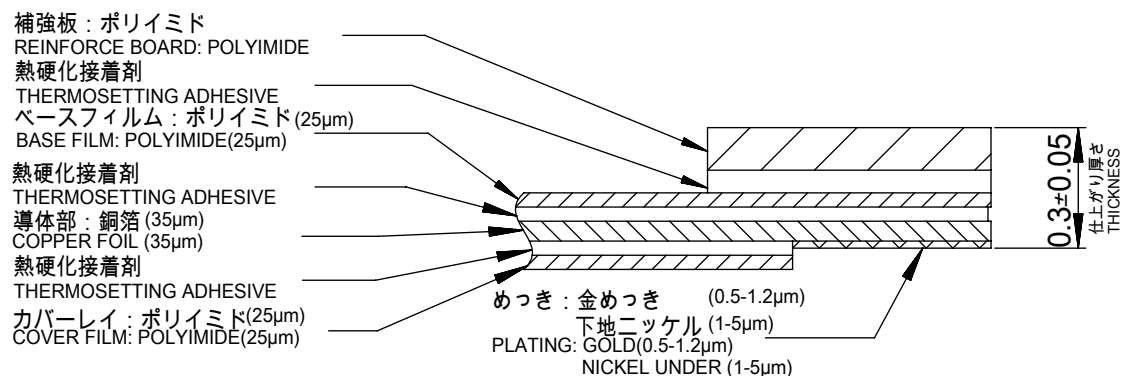
(仕上がり厚さ : 0.3 ± 0.05)
(THICKNESS : 0.3 ± 0.05)

N : 極数
N: CIRCUITS

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25μm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.



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35μmまたは50μm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おいて、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。

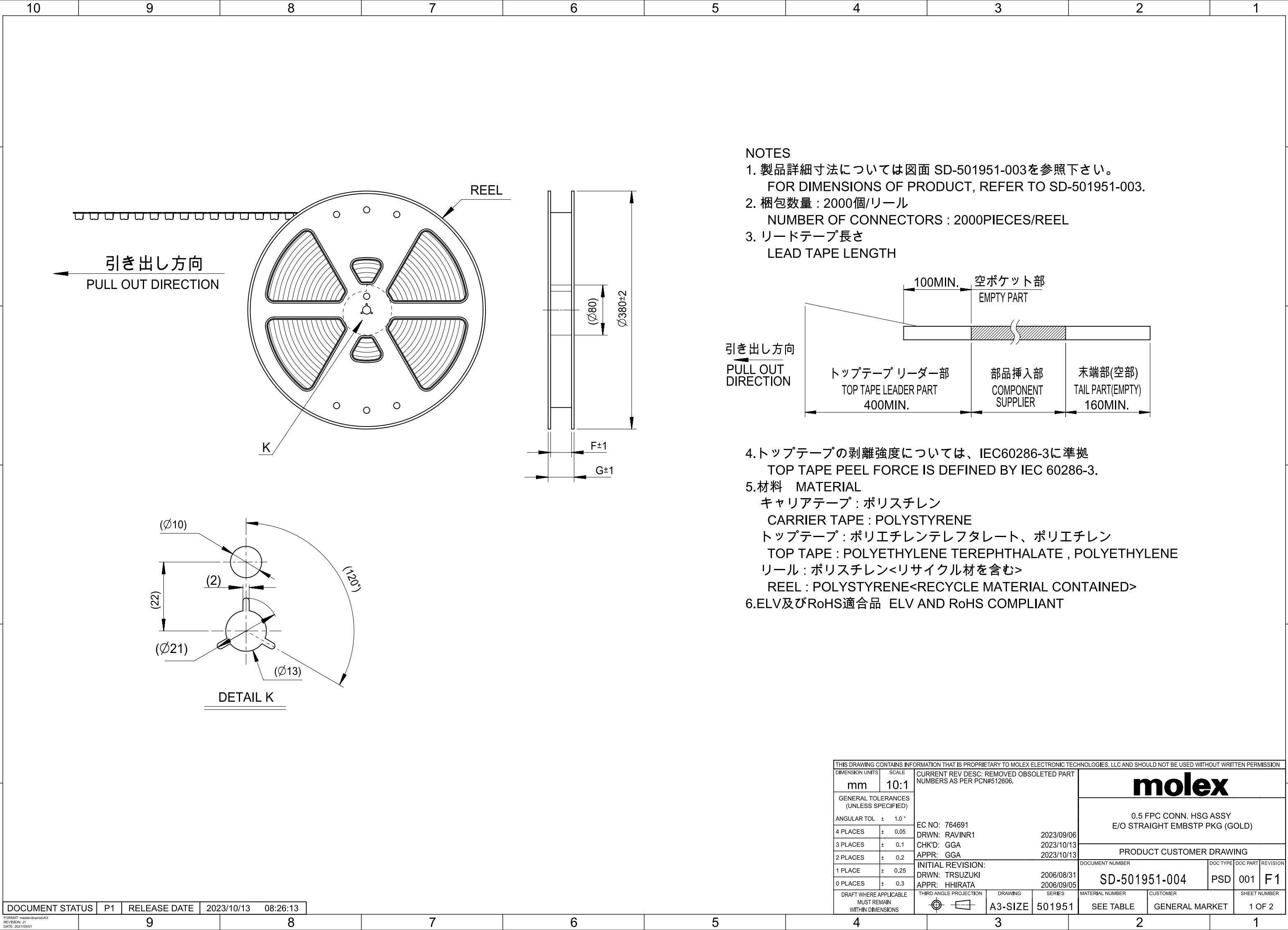
RECOMMENDED PUNCHING DIRECTION: FROM CONDUCTOR SIDE TO STIFFENER SIDE

RECOMMENDED CONDUCTOR SPEC: SOFT COPPER FOIL

RECOMMENDED CONDUCTOR THICKNESS: 35 MICROMETER OR 50 MICROMETER

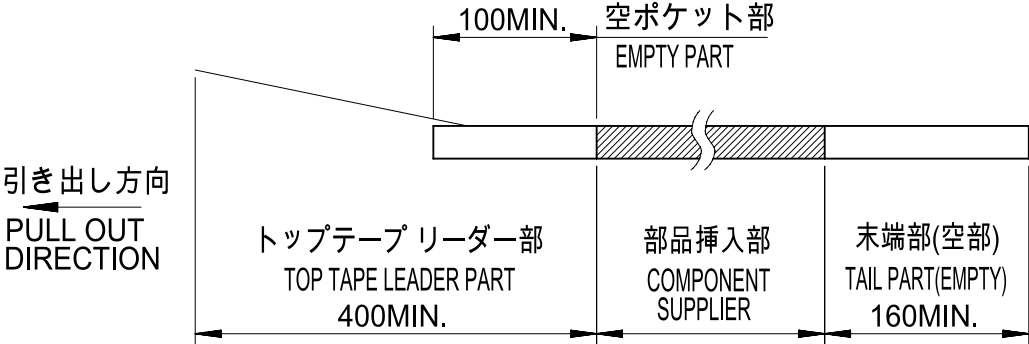
NOTE: WHEN ACTUALLY USING IT WITH CONNECTOR, PLEASE DO THE EVALUATION AND THE CONFIRMATION WITH AN ACTUAL EQUIPMENT TO EVADE THE CASE WHERE RELIABILITY CANNOT BE FILLED (THE ADHESIVE LINE OF FFC IS DETERIORATED ETC,)

GENERAL TOLERANCES (UNLESS SPECIFIED)		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
		DIMENSION UNITS mm	SCALE 10:1
0.25 UNDER	±0.03	GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 1.0° 4 PLACES ± 0.2 3 PLACES ± 0.25 2 PLACES ± 0.3 1 PLACE ± 0.05 0 PLACES ± CURRENT REV DESC: REVISED EC NO: 637653 DRWN: TNAKAGAWA01 CHK'D: HSHIMOYAMA APPR: SHOSHIKAWA INITIAL REVISION: DRWN: TRSUZUKI APPR: HHIRATA 2020/05/15 2020/05/15 2020/05/15 2006/08/31 2006/09/05	
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	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS THIRD ANGLE PROJECTION  DRAWING A3-SIZE SERIES 501951	
ANGULAR	±1°	GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 1.0° 4 PLACES ± 0.2 3 PLACES ± 0.25 2 PLACES ± 0.3 1 PLACE ± 0.05 0 PLACES ± CURRENT REV DESC: REVISED EC NO: 637653 DRWN: TNAKAGAWA01 CHK'D: HSHIMOYAMA APPR: SHOSHIKAWA INITIAL REVISION: DRWN: TRSUZUKI APPR: HHIRATA 2020/05/15 2020/05/15 2020/05/15 2006/08/31 2006/09/05	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS THIRD ANGLE PROJECTION  DRAWING A3-SIZE SERIES 501951	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS THIRD ANGLE PROJECTION  DRAWING A3-SIZE SERIES 501951	
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		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS THIRD ANGLE PROJECTION 	

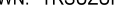


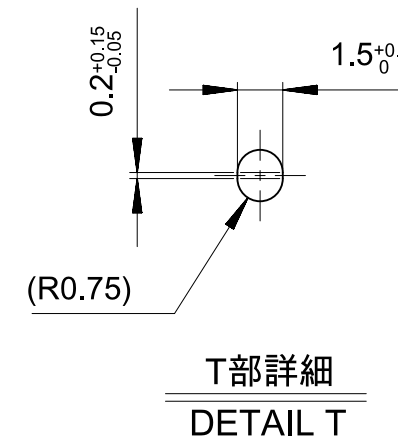
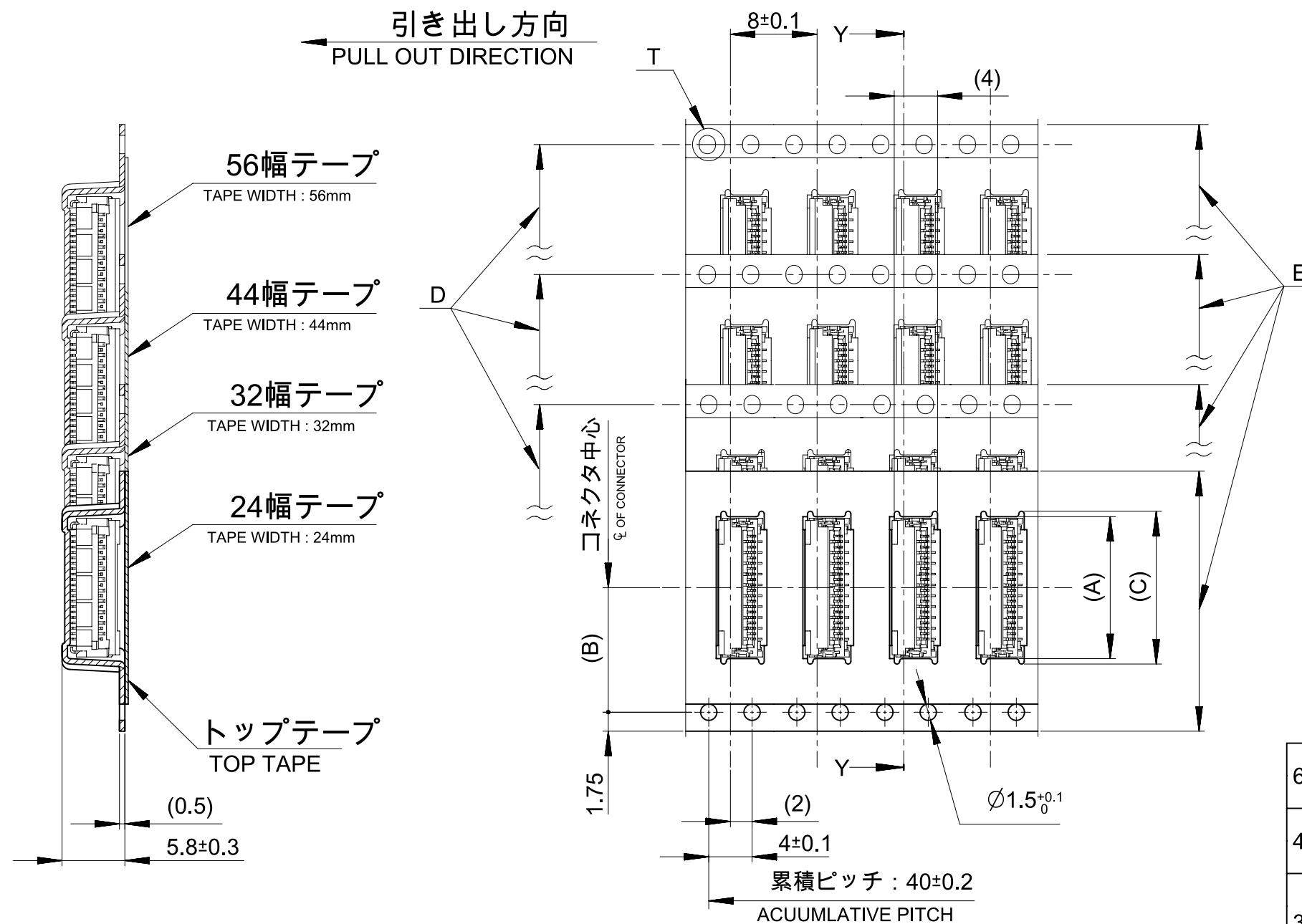
NOTES

1. 製品詳細寸法については図面 SD-501951-003を参照下さい。
FOR DIMENSIONS OF PRODUCT, REFER TO SD-501951-003.
2. 梱包数量：2000個/リール
NUMBER OF CONNECTORS：2000PIECES/REEL
3. リードテープ長さ
LEAD TAPE LENGTH

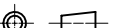


4. トップテープの剥離強度については、IEC60286-3に準拠
TOP TAPE PEEL FORCE IS DEFINED BY IEC 60286-3.
5. 材料 MATERIAL
キャリアテープ：ポリスチレン
CARRIER TAPE：POLYSTYRENE
トップテープ：ポリエチレンテレフタレート、ポリエチレン
TOP TAPE：POLYETHYLENE TEREPHTHALATE , POLYETHYLENE
リール：ポリスチレン<リサイクル材を含む>
REEL：POLYSTYRENE<RECYCLE MATERIAL CONTAINED>
6. ELV及びRoHS適合品 ELV AND RoHS COMPLIANT

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION															
DIMENSION UNITS		SCALE		CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#512606.				molex							
mm		10:1													
GENERAL TOLERANCES (UNLESS SPECIFIED)															
ANGULAR TOL ± 1.0 °															
4 PLACES		± 0.05													
3 PLACES		± 0.1		EC NO: 764691 DRWN: RAVINR1 CHK'D: GGA APPR: GGA 2023/09/06 2023/10/13 2023/10/13				0.5 FPC CONN. HSG ASSY E/O STRAIGHT EMBSTP PKG (GOLD)							
2 PLACES		± 0.2													
1 PLACE		± 0.25													
0 PLACES		± 0.3		INITIAL REVISION: DRWN: TRSUZUKI APPR: HHIRATA 2006/08/31 2006/09/05				DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION			
								SD-501951-004		PSD	001	F1			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION 		DRAWING A3-SIZE		SERIES 501951		MATERIAL NUMBER SEE TABLE		CUSTOMER GENERAL MARKET		SHEET NUMBER 1 OF 2	
DOCUMENT STATUS		P1	RELEASE DATE		2023/10/13		08:26:13								



61.4	57.4	56±0.3	52.4	39.1	26.2	38.1	501951-7010	70
				34.1		33.1	501951-6010	60
49.4	45.4	44±0.3	40.4	29.1	20.2	28.1	501951-5010	50
				24.1		23.1	501951-4010	40
37.4	33.4	32±0.3	28.4	20.1	14.2	19.1	501951-3210	32
				19.1		18.1	501951-3010	30
				16.1		15.1	501951-2410	24
29.4	25.4	24±0.3	-	14.1	11.5	13.1	501951-2010	20
G	F	E CARRIER TAPE WIDTH	D	(C)	(B)	(A)	MATERIAL NO.	CIRCUIT

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																	
DIMENSION UNITS		SCALE		CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#512606.				molex 0.5 FPC CONN. HSG ASSY E/O STRAIGHT EMBSTP PKG (GOLD)									
mm		10:1															
GENERAL TOLERANCES (UNLESS SPECIFIED)																	
ANGULAR TOL ± 1.0 °																	
4 PLACES ± 0.05		EC NO: 764691		2023/09/06				PRODUCT CUSTOMER DRAWING									
3 PLACES ± 0.1		DRWN: RAV/INR1															
2 PLACES ± 0.2		CHK'D: GGA															
1 PLACE ± 0.25		APPR: GGA		2023/10/13				INITIAL REVISION: DRWN: TRSUZUKI 2006/08/31 APPR: HIRATA 2006/09/05									
0 PLACES ± 0.3																	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVIS	
						A3-SIZE		501951		MATERIAL NUMBER		SEE TABLE		CUSTOMER		GENERAL MARKET	
								SD-501951-004		PSD		001		F			