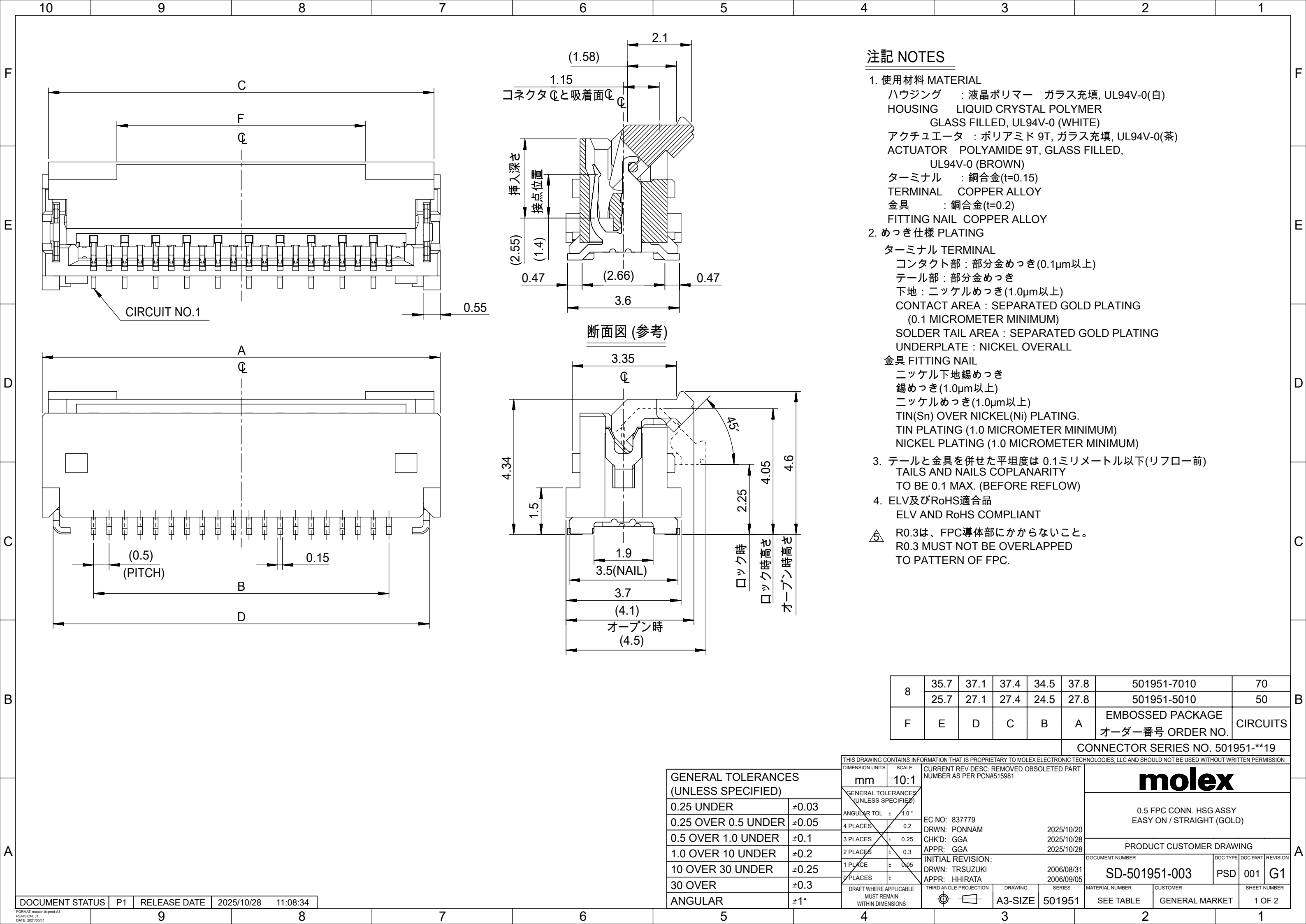




注記 NOTES

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 錫めっき
錫めっき(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(リフロー前)
TAILS AND NAILS COPLANARITY TO BE 0.1 MAX. (BEFORE REFLOW)
4. ELV及びRoHS適合品
ELV AND RoHS COMPLIANT
- ⚠ 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
	25.7	27.1	27.4	24.5	27.8	501951-5010	50
F	E	D	C	B	A	EMBOSSED PACKAGE オーダー番号 ORDER NO.	CIRCUITS

CONNECTOR SERIES NO. 501951-**19

GENERAL TOLERANCES (UNLESS SPECIFIED)	
0.25 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°

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 NUMBER AS PER PCN#515981					
mm		10:1		EC NO: 837779 DRWN: PONNAM2025/10/20 CHK'D: GGA2025/10/28 APPR: GGA2025/10/28 INITIAL REVISION: DRWN: TRSUZUKI2006/08/31 APPR: HHIRATA2006/09/05 THIRD ANGLE PROJECTION DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					
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 ±									
DRAWING				SERIES		MATERIAL NUMBER		CUSTOMER	
A3-SIZE				501951		SEE TABLE		GENERAL MARKET	
								SHEET NUMBER	
								1 OF 2	

molex

0.5 FPC CONN. HSG ASSY
EASY ON / STRAIGHT (GOLD)

PRODUCT CUSTOMER DRAWING

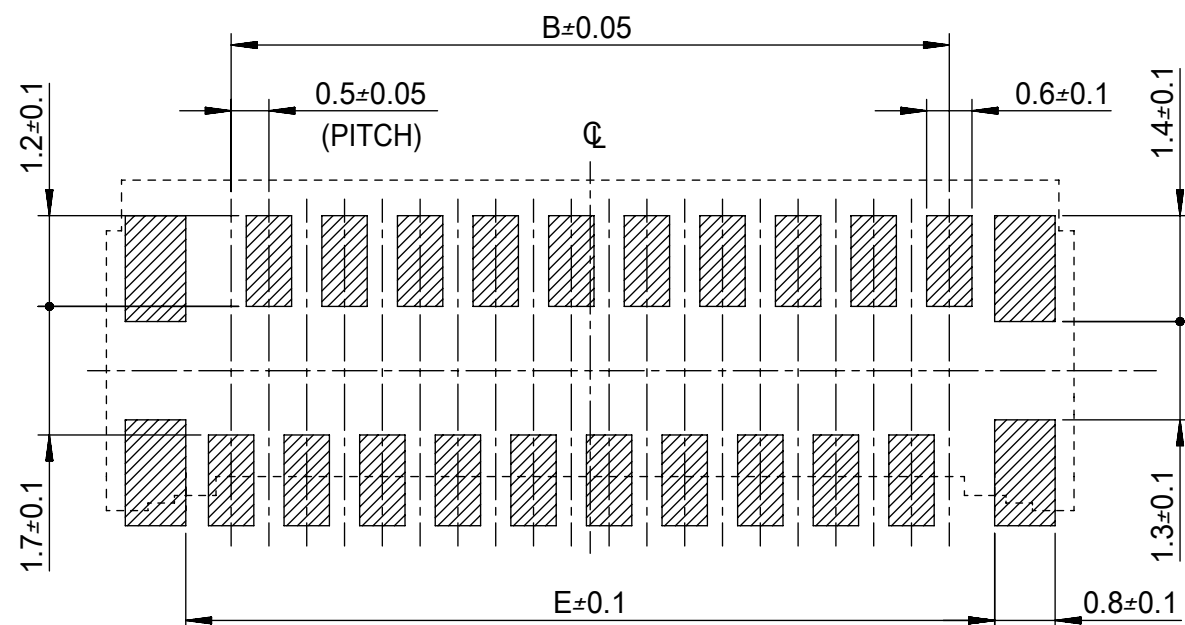
DOCUMENT NUMBER
SD-501951-003

DOC TYPE
PSD

DOC PART
001

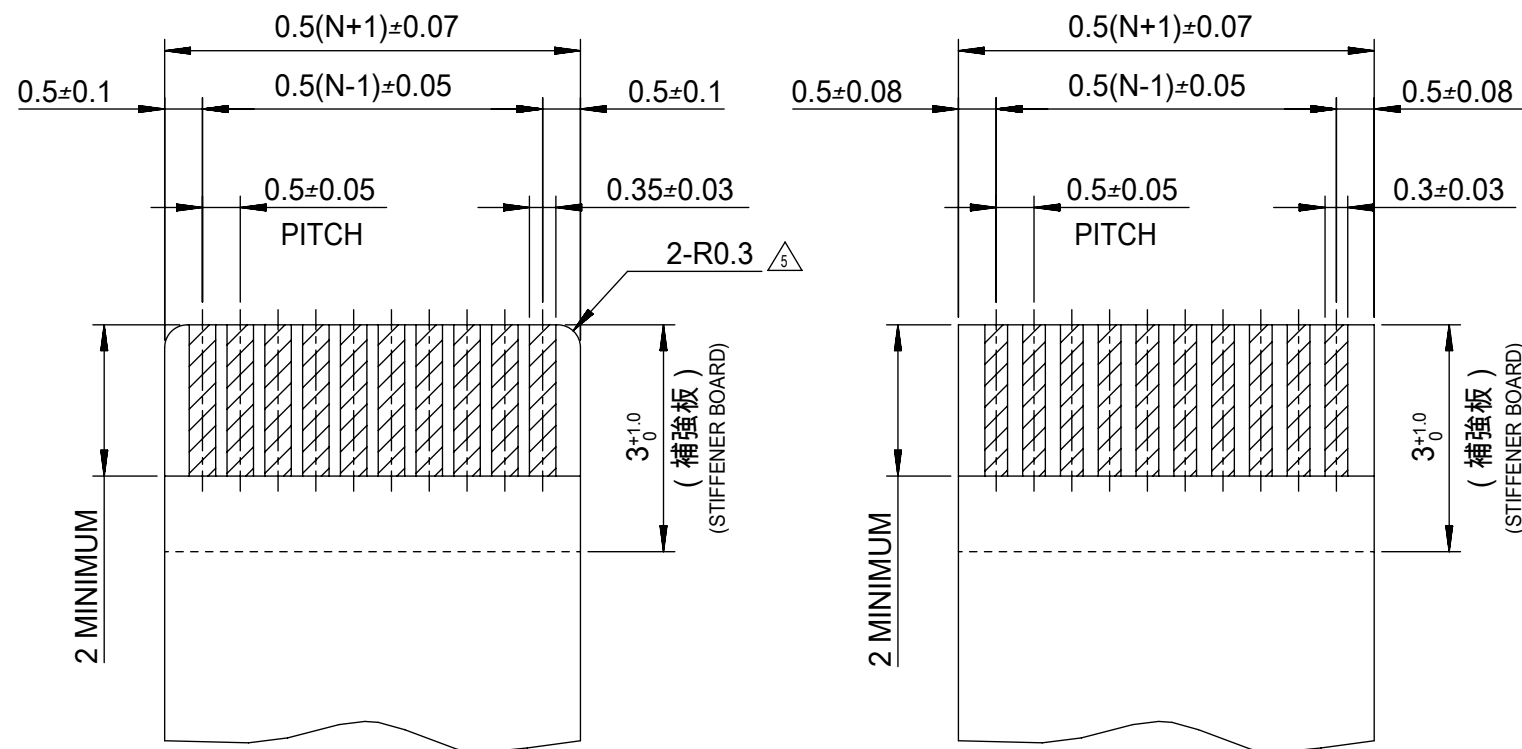
REVISION
G1

DOCUMENT STATUS	P1	RELEASE DATE	2025/10/28	11:08:34
-----------------	----	--------------	------------	----------



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

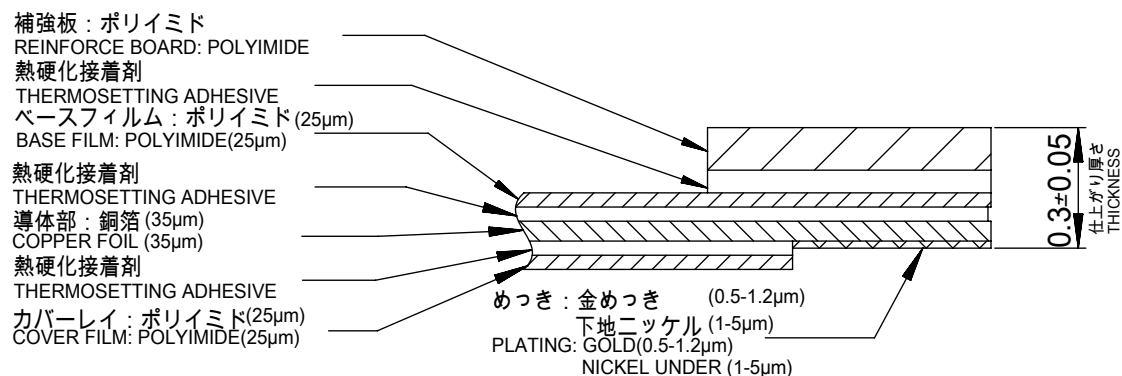
(仕上がり厚さ : 0.3 ± 0.05)
(THICKNESS : 0.3 ± 0.05)

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

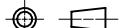
打ち抜き方向は導体側から補強板側を推奨します。
導体部については軟箔銅35μmまたは50μmを推奨します。
FFCに規定された定格温度がFFC単体前提である場合が御座います。
コネクタと組み合わせての実使用において、接着層が劣化するなどの信頼性を満足できないケースを回避するため、
実機での評価/確認をお願い致します。

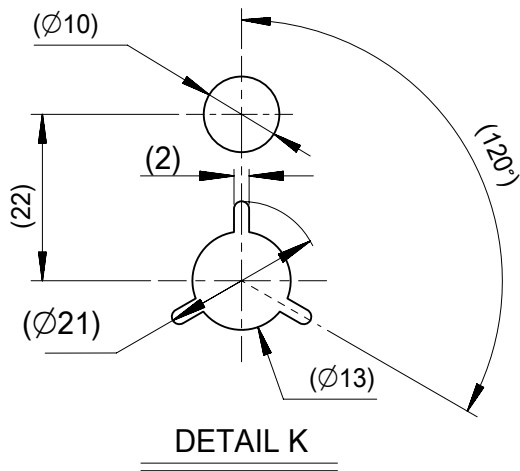
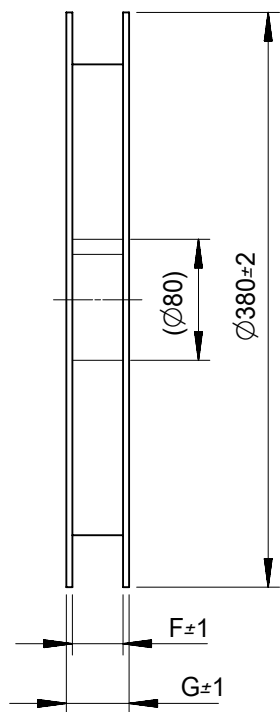
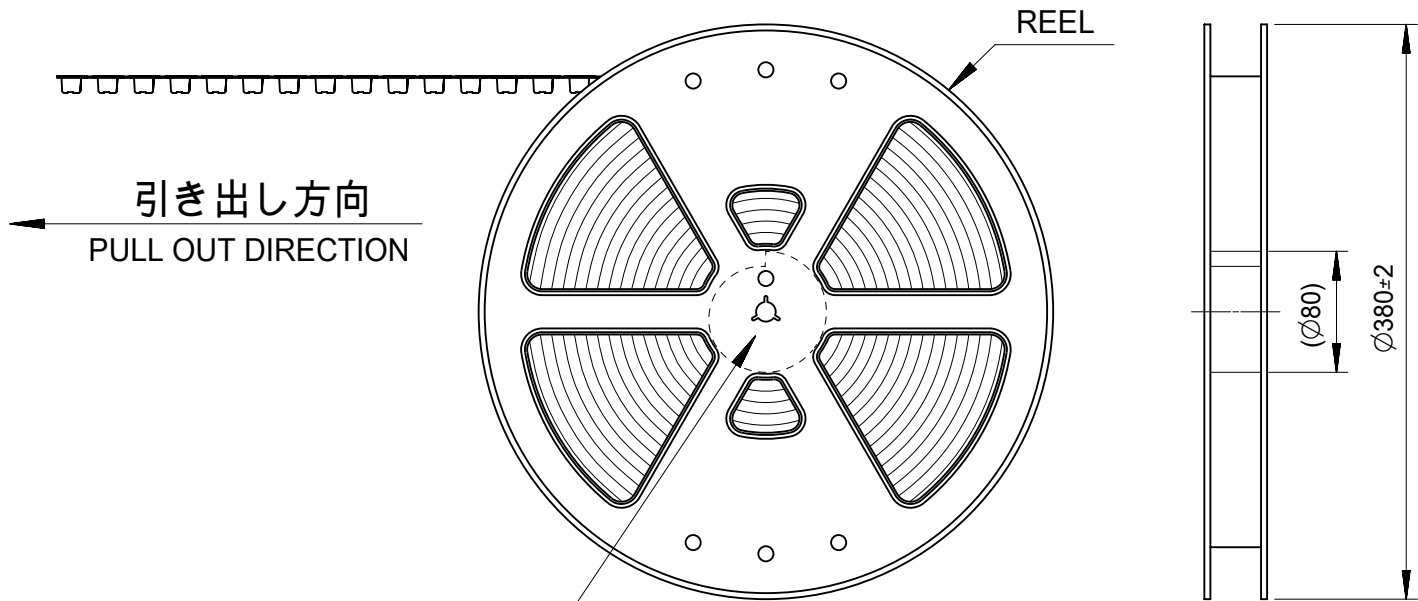
RECOMMENDED PUNCHING DIRECTION: FROM CONDUCTOR SIDE TO STIFFENER SIDE

RECOMMENDED CONDUCTOR SPEC: SOFT COPPER FOIL

RECOMMENDED CONDUCTOR THICKNESS: 35 MICROMETER OR 50 MICROMETER

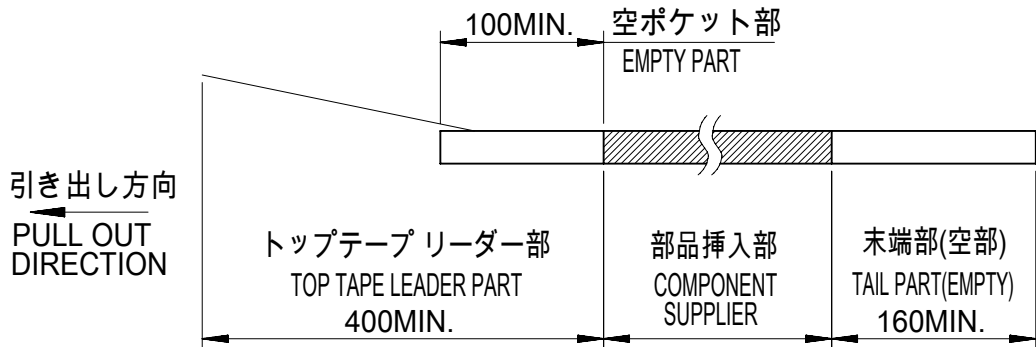
NOTE: WHEN ACTUALLY USING IT WITH CONNECTOR, PLEASE DO THE EVALUATION AND THE
CONFIRMATION WITH AN ACTUAL EQUIPMENT TO EVADE THE CASE WHERE RELIABILITY
CANNOT BE FILLED (THE ADHESIVE LINE OF FFC IS DETERIORATED ETC.)

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		SCALE		CURRENT REV DESC: REMOVED OBSOLETE PART NUMBER AS PER PCN#515981															
		mm		10:1																	
		GENERAL TOLERANCES (UNLESS SPECIFIED)																			
		0.25 UNDER		±0.03		ANGULAR TOL		±		1.0°		EC NO: 837779 DRWN: PONNAM CHK'D: GGA APPR: GGA 2025/10/20 2025/10/28 2025/10/28									
		0.25 OVER 0.5 UNDER		±0.05		4 PLACES		±		0.2											
		0.5 OVER 1.0 UNDER		±0.1		3 PLACES		±		0.25											
1.0 OVER 10 UNDER		±0.2		2 PLACES		±		0.3		INITIAL REVISION: DRWN: TRSUZUKI APPR: HHIRATA 2006/08/31 2006/09/05											
10 OVER 30 UNDER		±0.25		1 PLACE		±		0.05													
30 OVER		±0.3		0 PLACES		±															
ANGULAR		±1°		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
										A3-SIZE		501951		SD-501951-003		PSD		001		G1	
														MATERIAL NUMBER		CUSTOMER				SHEET NUMBER	
														SEE SHEET 1		GENERAL MARKET				2 OF 2	



NOTES

- 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.
- 梱包数量：2000個/リール
NUMBER OF CONNECTORS：2000PIECES/REEL
- リードテープ長さ
LEAD TAPE LENGTH



- 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.
- 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>
- 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 NUMBER AS PER PCN#515981					molex 0.5 FPC CONN. HSG ASSY E/O STRAIGHT EMBSTP PKG (GOLD)				
mm		10:1										
GENERAL TOLERANCES (UNLESS SPECIFIED)			EC NO: 837779 DRWN: PONNAM 2025/10/20 CHK'D: GGA 2025/10/28 APPR: GGA 2025/10/28					PRODUCT CUSTOMER DRAWING				
ANGULAR TOL ± 1.0 °												
4 PLACES		± 0.05										
3 PLACES		± 0.1										
2 PLACES		± 0.2										
1 PLACE		± 0.25	INITIAL REVISION: DRWN: TRSUZUKI 2006/08/31 APPR: HHIRATA 2006/09/05					DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
0 PLACES		± 0.3						SD-501951-004		PSD	001	F2
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER				
				A3-SIZE	501951	SEE TABLE	GENERAL MARKET	1 OF 2				

DOCUMENT STATUS	P1	RELEASE DATE	2025/10/28	11:08:34
-----------------	----	--------------	------------	----------

FORMAT: master-b-prod-A3
REVISION: J1
DATE: 2021/05/01

