

注記 NOTES

1. 使用材料 MATERIALS
ハウジング : 液晶ポリマー(UL94V-0、ベージュ)
アクチュエータ : ポリアミド(UL94HB、黒色)
端子 : リン青銅
補強金具 : リン青銅
HOUSING : LCP (BEIGE)
ACTUATOR : PA (BLACK)
TERMINAL : PHOSPHOR BRONZE
FITTING NAIL : PHOSPHOR BRONZE
2. メッキ仕様 PLATING
端子 TERMINAL
接点部 : 金メッキ0.1 μm以上
テール部 : 金メッキ
下地 : ニッケルメッキ1.0 μm以上
CONTACT AREA : Gold PLATING 0.1μm MINIMUM
TAIL AREA : Gold PLATING
UNDER PLATING : Nickel PLATING 1.0μm MINIMUM
金具 FITTING NAIL
表面 : スズメッキ 1.0 μm以上
下地 : ニッケルメッキ1.0 μm以上
ALL OVER : Tin PLATING 1.0μm MINIMUM
UNDER PLATING : Nickel PLATING 1.0μm MINIMUM
3. 端子、補強金具のコプラナリティーは0.1以下とする
COPLANALITY OF SOLDER TAILS AND FITTING NAILS : 0.1MAX.
4. 一般公差 : ± 0.3
GENERAL TOLERANCES: ±0.3
5. アクチュエータの図示箇所にゲート逃げの凹みがつきます (極数により、レイアウトが異なります)
THERE ARE DENT SHAPES AT ACTUATOR FOR MOLDING GATE (LAYOUT DIFFER ACCORDING TO CIRCUIT NUMBER)
6. ELV & RoHS 適合品
ELV & RoHS COMPLIANT
7. 塩素系・臭素系難燃剤非使用
CHLORINATED AND BROMINATED FLAME RETARDANTS FREE

16.34	15.5	14.5	15	17	5020786162	5020786168	61
14.34	13.5	12.5	13	15	5020785362	5020785368	53
13.84	13	12	12.5	14.5	5020785162	5020785168	51
12.34	11.5	10.5	11	13	5020784562	5020784568	45
10.84	10	9	9.5	11.5	5020783962	5020783968	39
10.34	9.5	8.5	9	11	5020783762	5020783768	37
9.34	8.5	7.5	8	10	5020783362	5020783368	33
7.34	6.5	5.5	6	8	5020782562	5020782568	25
6.34	5.5	4.5	5	7	5020782162	5020782168	21
5.34	4.5	3.5	4	6	5020781762	5020781768	17
4.34	3.5	2.5	3	5	5020781362	5020781368	13
E	D	C	B	A	ORDER No.	MATERIAL No.	CIRCUIT =N

CONNECTOR SERIES No. 502078**68

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SCALE: 20:1
CURRENT REV DESC: REVISED

molex

0.25 PITCH FPC CONN E/O
HGT=1.0 BTM CONTACT TYPE

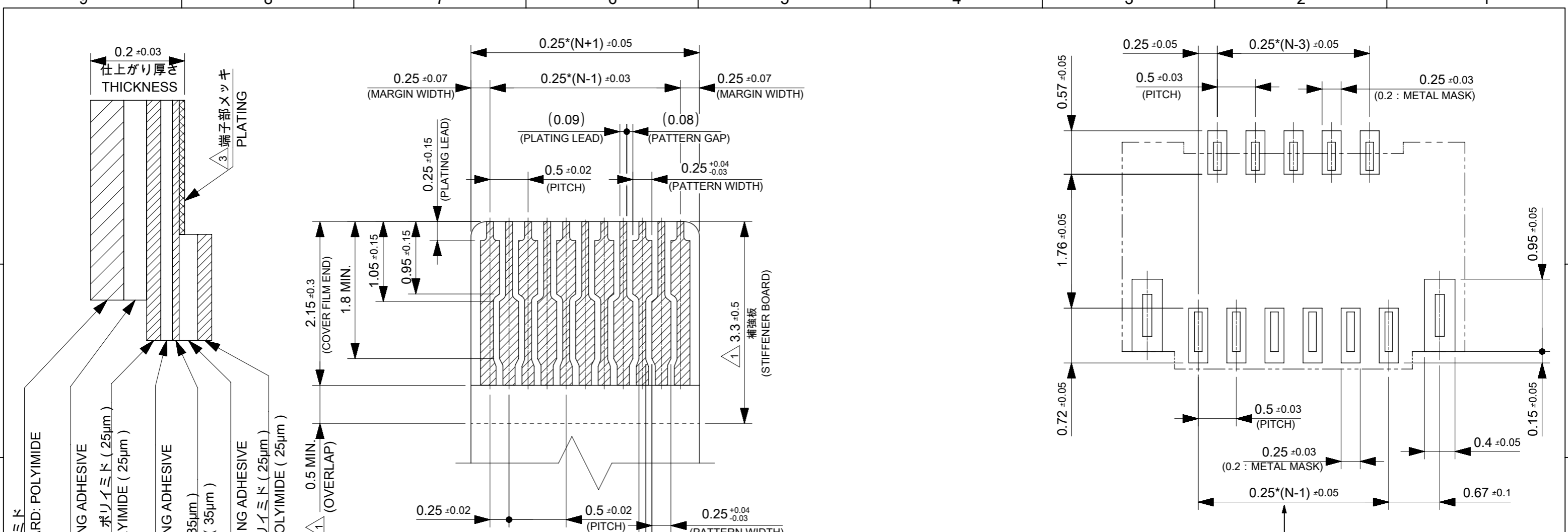
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER: 5020781001
DOC TYPE: PSD
DOC PART: 000
REVISION: B

EC NO: 171125
DRWN: MTAKAHASHI04 2018/01/19
CHK'D: KTAKAHASHI 2018/01/23
APPR: NUKITA 2018/01/23

INITIAL REVISION:
DRWN: RYANAIDANI 2016/11/24
APPR: MSASAO 2017/01/27

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS
THIRD ANGLE PROJECTION
DRAWING: A3-SIZE
SERIES: 502078
MATERIAL NUMBER: SEE CHART
CUSTOMER: GENERAL
SHEET NUMBER: 1 OF 2



補強板：ポリイミド
STIFFENER BOARD: POLYIMIDE
熱硬化接着剤
THERMOSETTING ADHESIVE
ペースフィルム：ポリイミド (25µm)
BASE FILM: POLYIMIDE (25µm)
熱硬化接着剤
THERMOSETTING ADHESIVE
導体部：銅箔 (35µm)
CONDUCTOR: COPPER FOIL (35µm)
熱硬化接着剤
THERMOSETTING ADHESIVE
カバーレイ：ポリイミド (25µm)
COVER FILM: POLYIMIDE (25µm)

FPC 構成材料例
EXAMPLE OF FPC
COMPOSITION MATERIAL

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

注記 NOTES

1. 補強板長さが図面通り確保できない場合は、カバーレイと補強板のオーバーラップ寸法を0.5mm以上としてください
WHEN STIFFENER BOARD DIMENSION CAN NOT SECURE AS DRAWING, PLEASE GIVE THE OVERLAP SIZE OF COVER FILM AND STIFFENER BOARD AS 0.5mm MINIMUM

2. 推奨ペースト厚：100µm
推奨マスク開口率：80%
RECOMMEND SCREEN THICKNESS：100µm
RECOMMEND SCREEN OPEN RATIO：80%

3. FPCパターンのメッキ仕様は
金メッキ：0.1µm以上
下地ニッケルメッキ：2~6µm
FPC PATTERN PLATING
GOLD PLATING：0.1µm MINIMUM
NICKEL UNDER PLATING：2~6µm

4. FPCについて (ABOUT FPC)
抜き方向は、導体側から補強板側を推奨します
補強板材質は、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
なお、接着剤の接点部への付着は導通不良の原因となりますので染み出しがないよう、お願いします。
FPCに規定された定格温度がFPC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 PUNCHER DIRECTION: FROM CONDUCTOR SIDE TO STIFFENER BOARD SIDE
RECOMMENDED MATERIAL: STIFFENER BOARD: POLYIMIDE
BONDING AGENT: THERMOSETTING AGENT
PLEASE PUT APPROPRIATE AMOUNT OF ADHESIVE ON THE CONTACT AREA BECAUSE THE EXTRA ADHESIVE MAY CAUSE THE DEFECT IN ELECTRICAL CONTINUITY.
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 FPC IS DETERIORATED ETC.)

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DIMENSION UNITS		SCALE		CURRENT REV DESC: REVISED					
mm		20:1		<p>0.25 PITCH FPC CONN E/O HGT=1.0 BTM CONTACT TYPE</p> <p>PRODUCT CUSTOMER DRAWING</p>					
GENERAL TOLERANCES (UNLESS SPECIFIED)									
ANGULAR TOL ± °									
4 PLACES ±		EC NO: 171125							
3 PLACES ±		DRWN: MTAKAHASHI04 2018/01/19							
2 PLACES ±		CHK'D: KTAKAHASHI 2018/01/23							
1 PLACE ±		APPR: NUKITA 2018/01/23		INITIAL REVISION:		DOCUMENT NUMBER		DOC TYPE	
0 PLACES ±		DRWN: RYANAIDANI 2016/11/24		5020781001		PSD		000	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER	
		A3-SIZE		502078		SEE SHEET 1		CUSTOMER	
						GENERAL		SHEET NUMBER	
						2 OF 2			