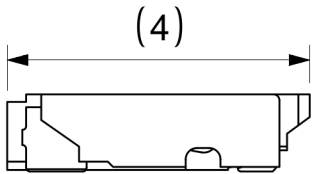
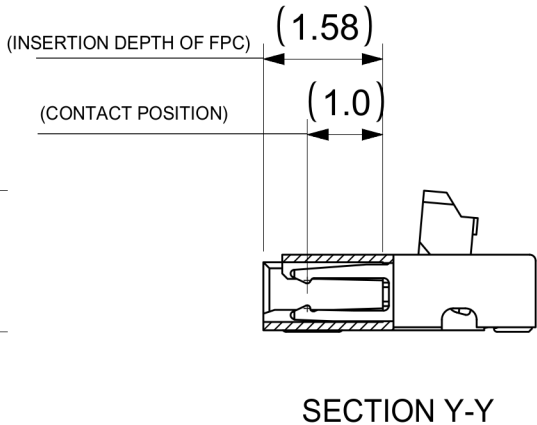
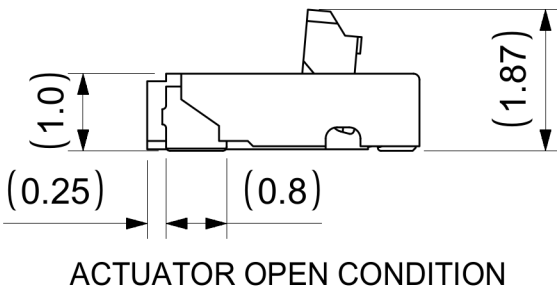
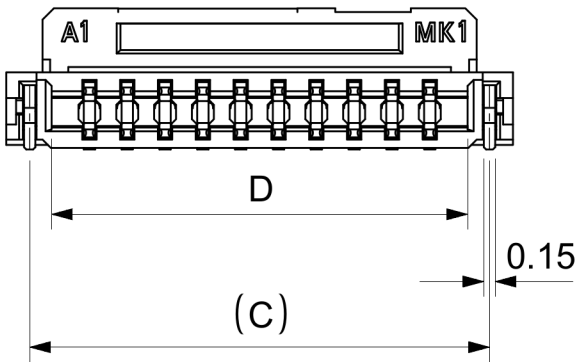
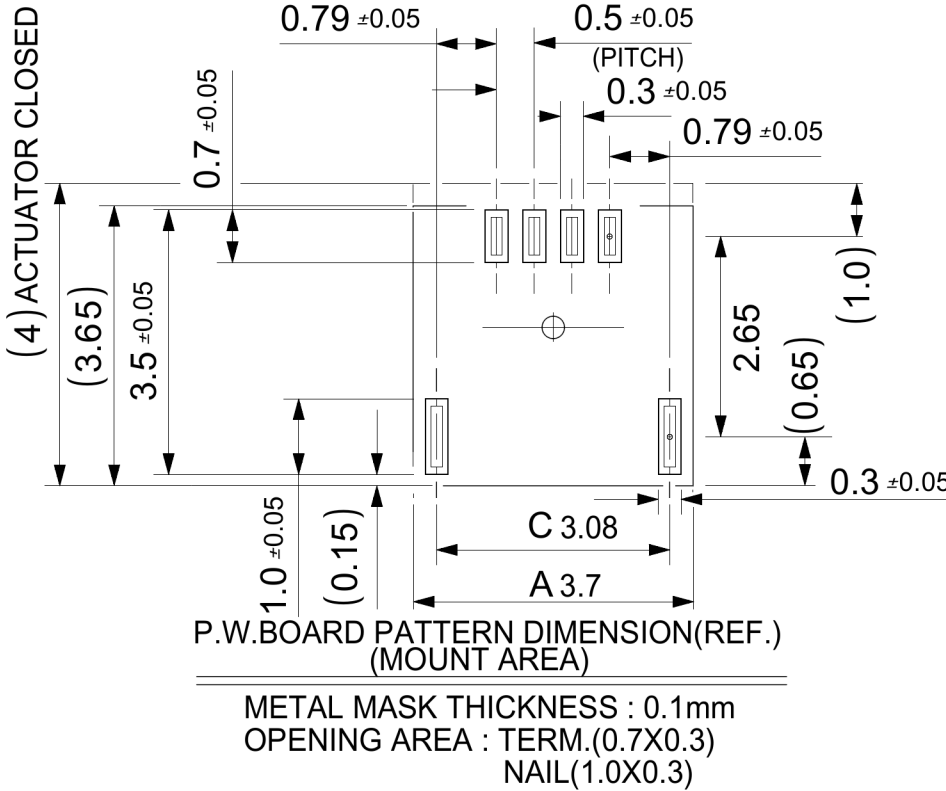
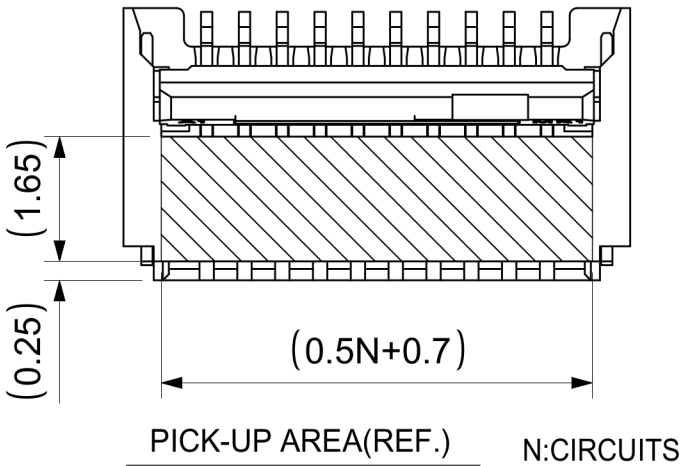
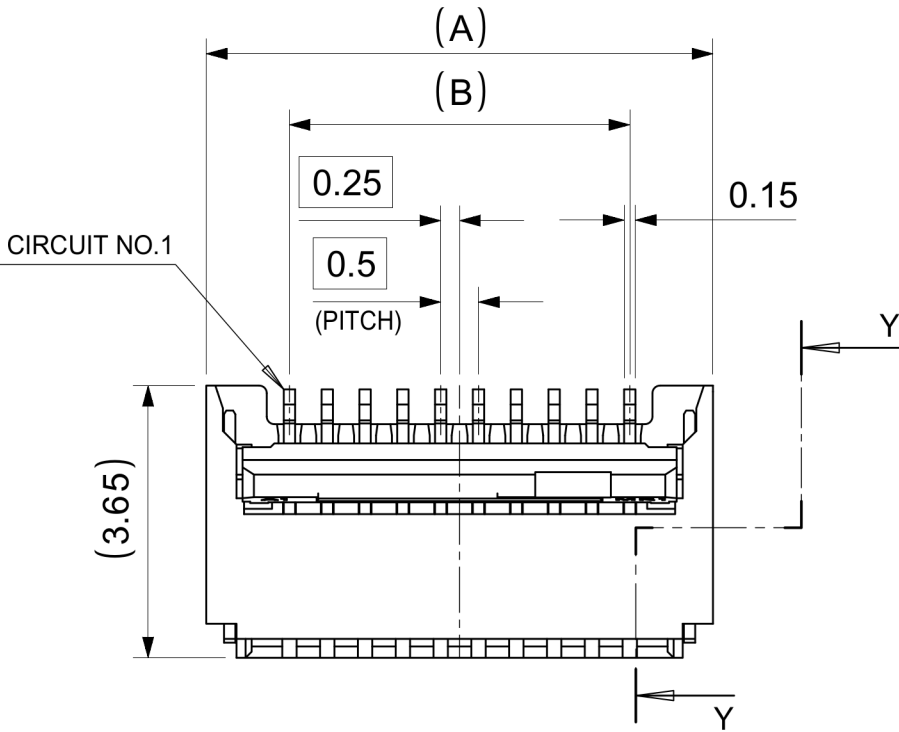
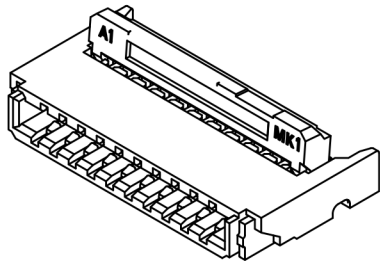


modified copy of page 1



ACTUATOR CLOSED CONDITION

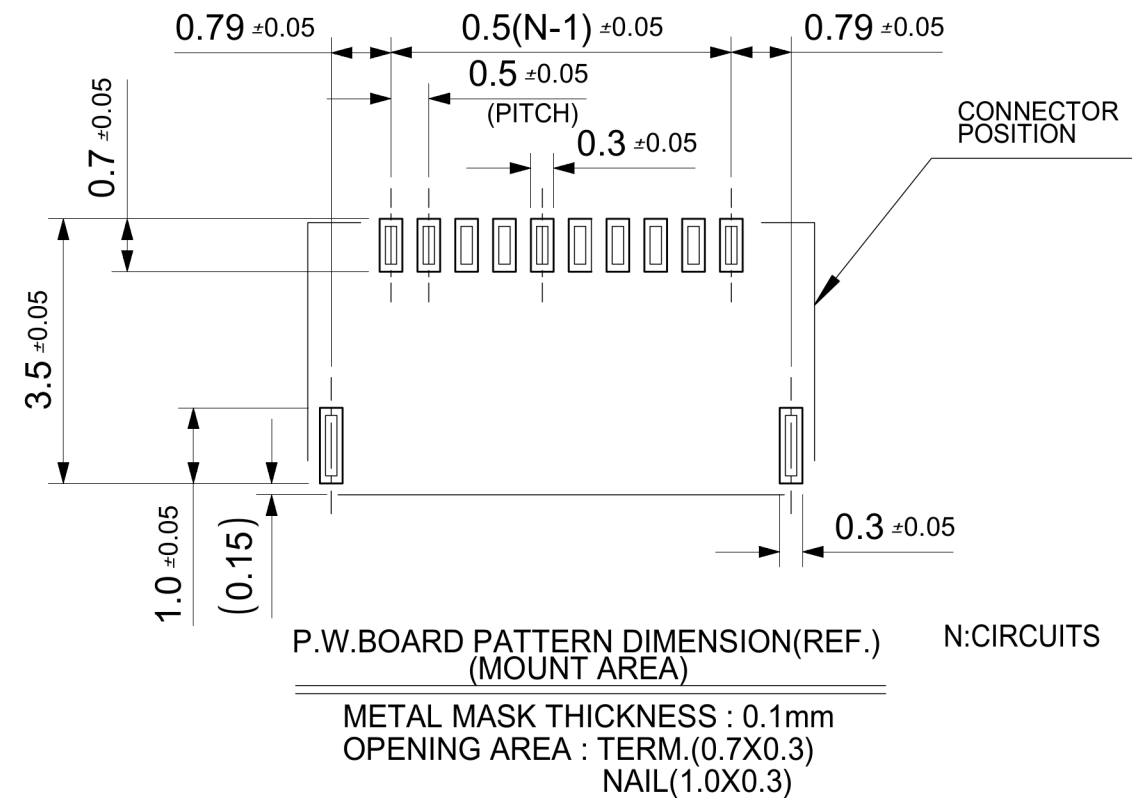
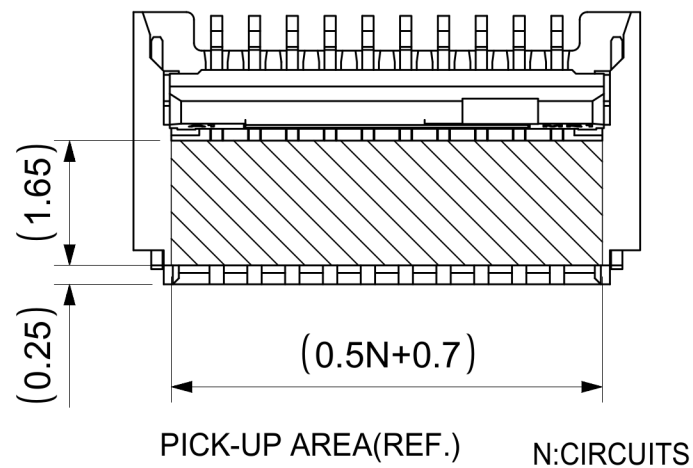
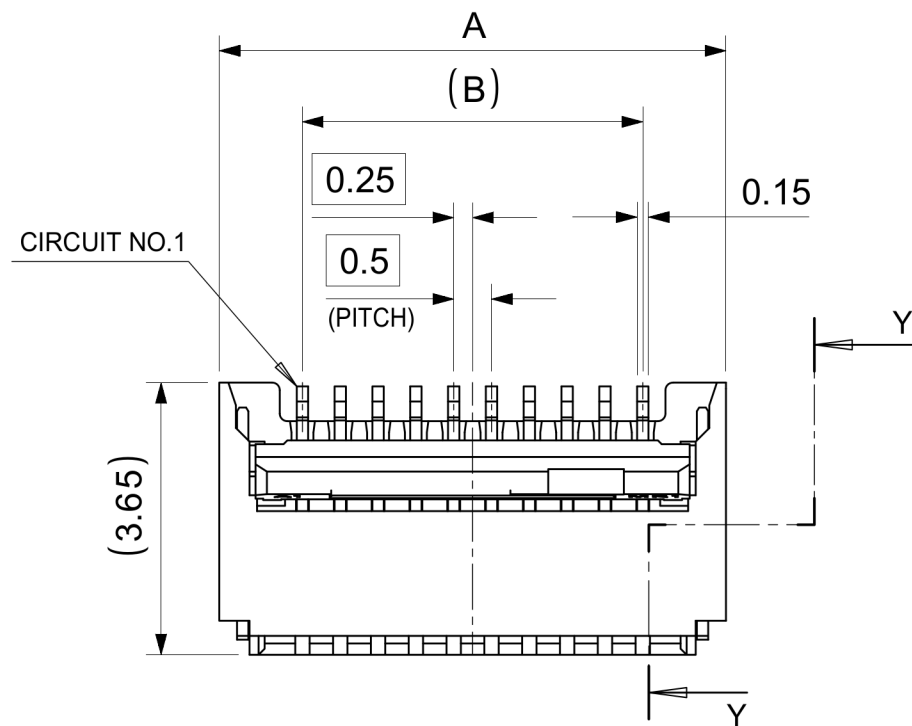


2.5	3.08	1.5	3.7	503480-0400	4
D	C	B	A	EMBOSSED PACKAGE ORDER NO.	CIRCUIT
CONNECTOR SERIES No. 503480-**09					

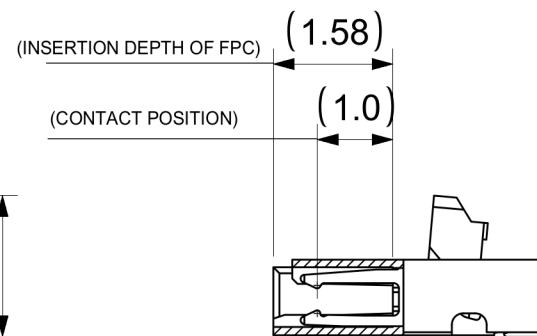
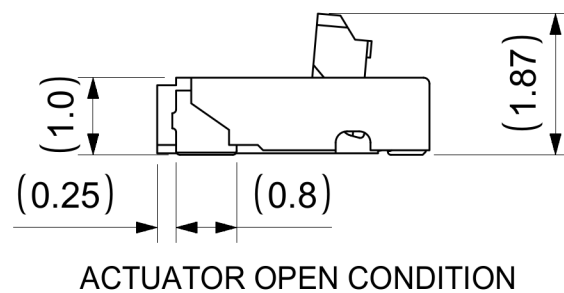
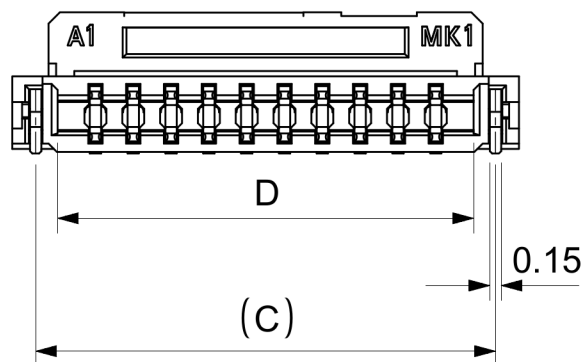
SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION														
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	mm		10:1												
	GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 637378 DRWN: YRKIM 2019/10/01 CHK'D: SHCHU 2020/05/12 APPR: SHCHU 2020/06/04			0.5 FPC CONN. E/O BACKFLIP H=1.0MM ASSEMBLY							
	ANGULAR TOL ± 1.0 °														
	4 PLACES		±										PRODUCT CUSTOMER DRAWING		
	3 PLACES		± 0.2												
	2 PLACES		± 0.25												
	1 PLACE		± 0.3		INITIAL REVISION: DRWN: THIRAYAMA 2009/12/11 APPR: KMORIKAWA 2009/12/14			DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION			
	0 PLACES		±					SD-503480-001		PSD	001	H1			
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER
						A3-SIZE		503480		SEE CHART		GENERAL MARKET		1 OF 2	

F

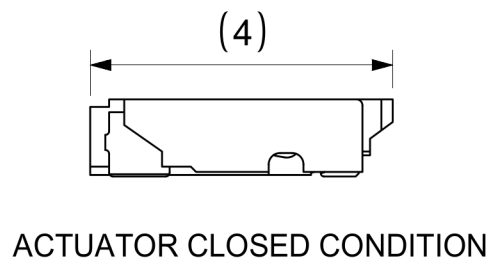
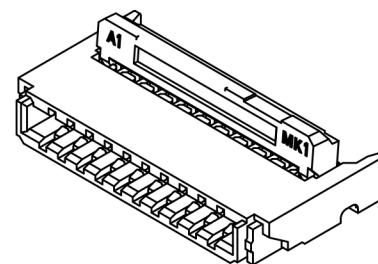
CIRCUIT NO.1



D

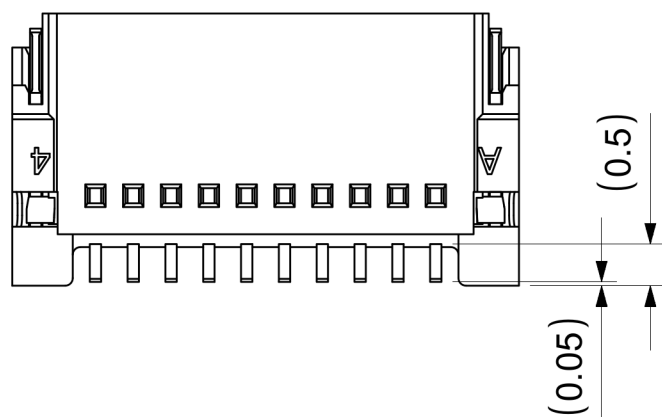


SECTION Y-Y



C

B



20.5	21.08	19.5	21.7	503480-4000	40
19.5	20.08	18.5	20.7	503480-3800	38
18.5	19.08	17.5	19.7	503480-3600	36
17.5	18.08	16.5	18.7	503480-3400	34
16.5	17.08	15.5	17.7	503480-3200	32
15.5	16.08	14.5	16.7	503480-3000	30
14.5	15.08	13.5	15.7	503480-2800	28
13.5	14.08	12.5	14.7	503480-2600	26
12.5	13.08	11.5	13.7	503480-2400	24
11.5	12.08	10.5	12.7	503480-2200	22
10.5	11.08	9.5	11.7	503480-2000	20
9.5	10.08	8.5	10.7	503480-1800	18
9.0	9.58	8.0	10.2	503480-1700	17
8.5	9.08	7.5	9.7	503480-1600	16
7.5	8.08	6.5	8.7	503480-1400	14
6.5	7.08	5.5	7.7	503480-1200	12
5.5	6.08	4.5	6.7	503480-1000	10
4.5	5.08	3.5	5.7	503480-0800	8
3.5	4.08	2.5	4.7	503480-0600	6
3.0	3.58	2.0	4.2	503480-0500	5
2.5	3.08	1.5	3.7	503480-0400	4

D	C	B	A	EMBOSSED PACKAGE ORDER NO.	CIRCUIT
CONNECTOR SERIES No. 503480-**09					

SYMBOLS

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DIMENSION UNITS

mm

SCALE

10:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 1.0°

4 PLACES ±

3 PLACES ± 0.2

2 PLACES ± 0.25

1 PLACE ± 0.3

0 PLACES ±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

THIRD ANGLE PROJECTION

CURRENT REV DESC:

EC NO: 637378

DRWN: YRKIM

CHK'D: SHCHU

APPR: SHCHU

2019/10/01

2020/05/12

2020/06/04

INITIAL REVISION:

DRWN: THIRAYAMA

APPR: KMORIKAWA

2009/12/11

2009/12/14

DRAWING

A3-SIZE

SERIES

503480

molex

0.5 FPC CONN. E/O  
BACKFLIP H=1.0MM ASSEMBLY

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

SD-503480-001

DOC TYPE

PSD

DOC PART

001

REVISION

H1

MATERIAL NUMBER

SEE CHART

CUSTOMER

GENERAL MARKET

SHEET NUMBER

1 OF 2

NOTES

1. PART COMPOSITION

HOUSING MATERIAL:LIQUID CRYSTAL POLYMER(LCP),  
GLASS FILLED, UL94V-0, NATURAL(WHITE)

TERMINAL MATERIAL:PHOSPOHR BRONZE

CONTACT AREA : SEPARATED GOLD PLATING  
(0.1 MICROMETER MINIMUM)

SOLDER TAIL AREA : SEPARATED GOLD PLATING

UNDERPLATE : NICKEL OVERALL  
(1.0 MICROMETER MINIMUM)

ACTUATOR MATERIAL : POLYAMIDE(PA), GLASS FILLED,  
UL94 HB, BLACK

NAIL MATERIAL:PHOSPOHR BRONZE

SOLDER TAIL AREA : TIN OVERALL(1.0 MICROMETER MINIMUM)  
UNDERPLATE : NICKEL OVERALL(1.0 MICROMETER MINIMUM)

2 . PLEASE DO NOT OPERATE THE ACTUATOR BEFORE MOUNTING.

3. PLEASE OPERATE THE ACTUATOR AFTER INSERTING THE FPC INTO  
THE CONNECTOR.

4. ABOUT FPC

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.

RECOMMENDED PUNCHER DIRECTION:

FROM CONDUCTOR SIDE TO STIFFENER FILM SIDE.

RECOMMENDED CONDUCTOR SPECIFICATION:

THICKNESS OF SOFT COPPER FOIL: 35MICROMETER

5 R0.3 MUST NOT BE OVERLAPPED TO PATTERN OF FPC.

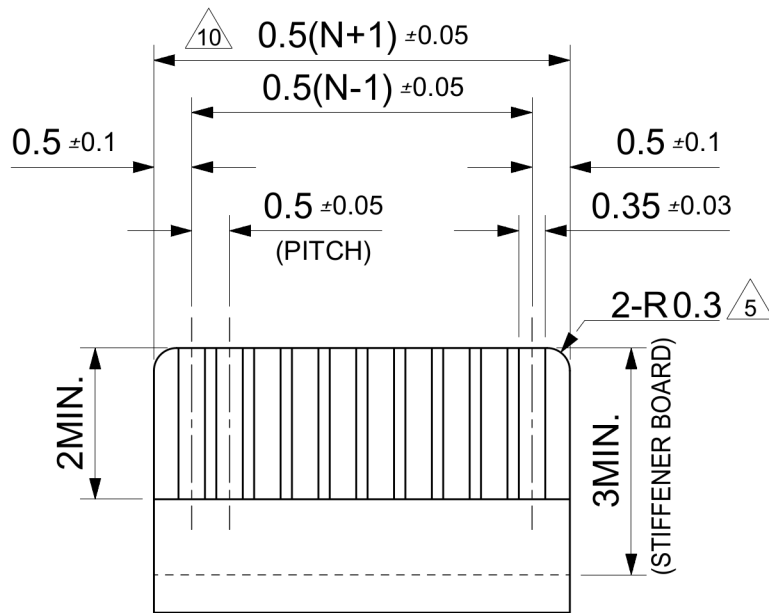
6. COPLANARITY : 0.1 MAXIMUM

7. PLEASE RECOGNIZE A POSSIBILITY TO CHANGE THE SHAPE  
OF THE PART THAT DOES NOT OBSTRUCT A FUNCTION,  
BY CIRCUMSTANCES IN OUR PRODUCTION.

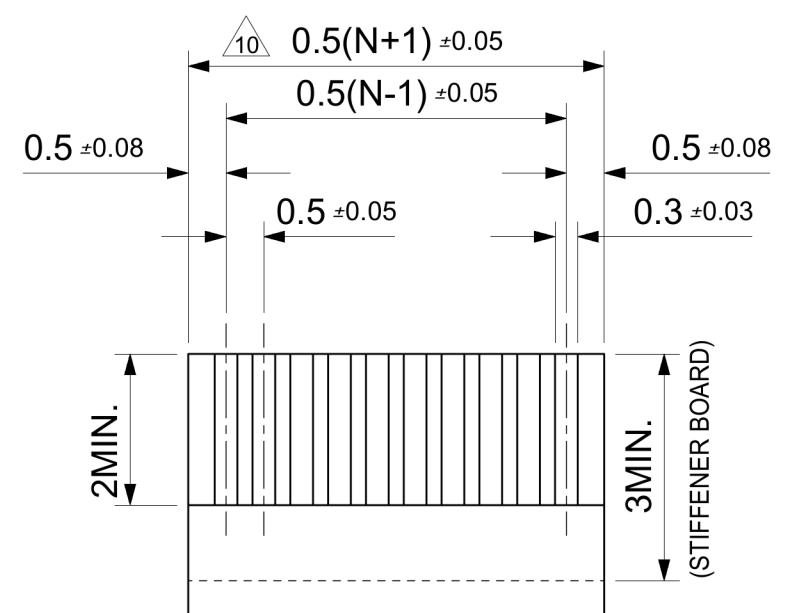
8. THIS PRODUCT IS DELIVERED WITH THE ACTUATOR  
IN THE OPEN POSITION.

9. THIS PRODUCT IS DUAL-CONTACT  
(TOP- AND BOTTOM-CONTACTS) TYPE CONNECTOR.

10 PLEASE CONFIRM TO INSERT FPC IN ADVANCE WHEN FPC  
WIDTH IS OVER 0.5(N+1)+0.02.



APPLICABLE FPC  
RECOMMENDED DIMENSION N:CIRCUITS  
(THICKNESS : 0.3±0.05) : 30 OR LESS CIRCUITS  
(THICKNESS : 0.3±0.03) : 31 OR OVER CIRCUITS



APPLICABLE FFC  
RECOMMENDED DIMENSION N:CIRCUITS

REINFORCE BOARD: POLYIMIDE

THERMOSETTING ADHESIVE

BASE FILM: POLYIMIDE(25um)

THERMOSETTING ADHESIVE













COPPER FOIL (35um)

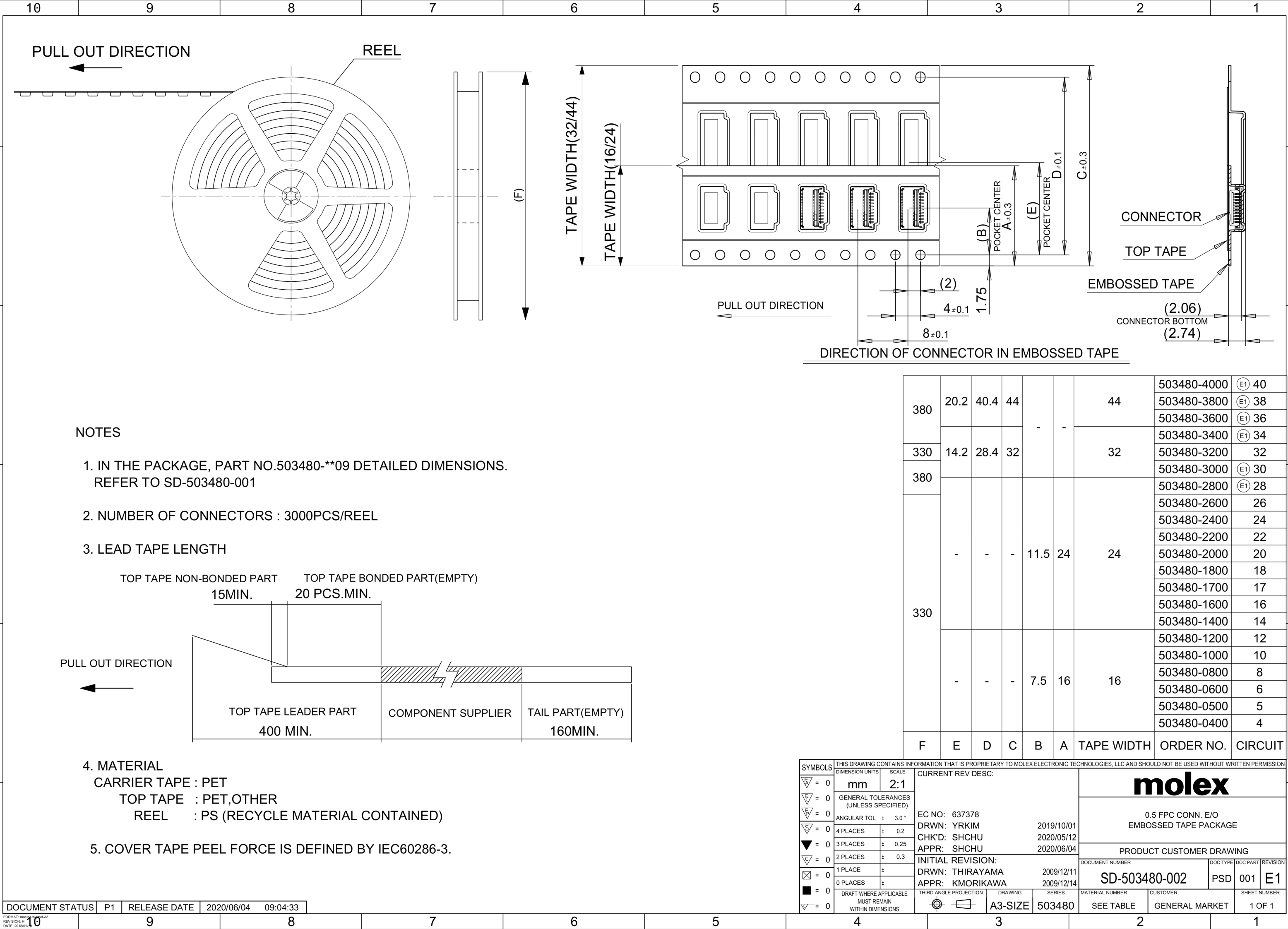
THERMOSETTING ADHESIVE

COVER FILM: POLYIMIDE(25um)

PLATING: GOLD(0.1umMIN.)  
NICKEL UNDER (1-5um)

STRUCTURE OF FPC

SYMBOLS	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:				<div>molex</div>				
 = 0	mm		10:1									
 = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)			EC NO: 637378 DRWN: YRKIM 2019/10/01 CHK'D: SHCHU 2020/05/12 APPR: SHCHU 2020/06/04								
 = 0												
 = 0	ANGULAR TOL ± 1.0°											
 = 0	4 PLACES ±											
 = 0	3 PLACES ± 0.2		INITIAL REVISION: DRWN: THIRAYAMA 2009/12/11 APPR: KMORIKAWA 2009/12/14									
 = 0	2 PLACES ± 0.25											
 = 0	1 PLACE ± 0.3		DOCUMENT NUMBER SD-503480-001				DOC TYPE PSD	DOC PART 001	REVISION H1			
 = 0	0 PLACES ±											
 = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER		CUSTOMER		SHEET NUMBER
 = 0						A3-SIZE	503480	SEE SHEET1		GENERAL MARKET		2 OF 2

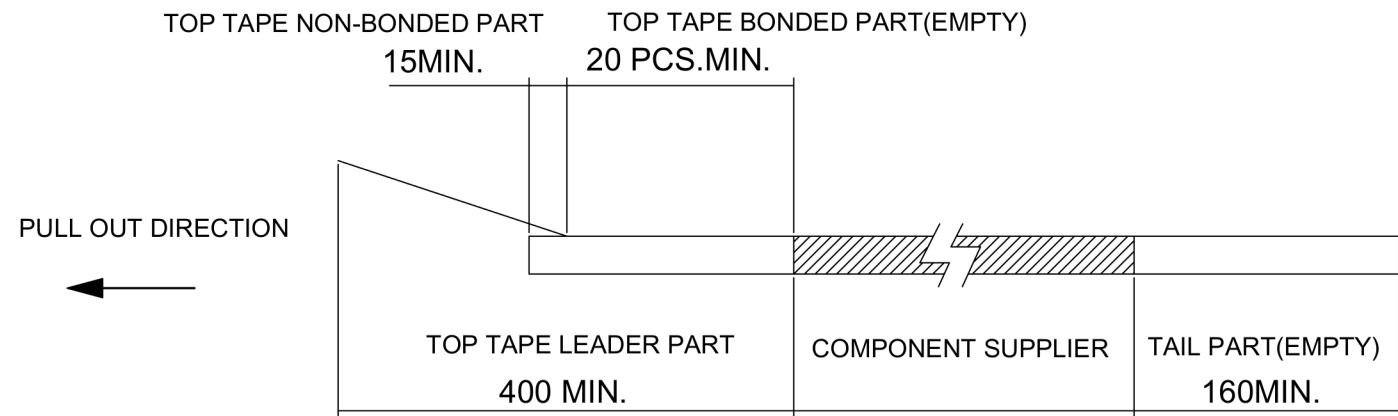


NOTES

1. IN THE PACKAGE, PART NO.503480-\*\*09 DETAILED DIMENSIONS.  
REFER TO SD-503480-001

2. NUMBER OF CONNECTORS : 3000PCS/REEL

3. LEAD TAPE LENGTH



4. MATERIAL

CARRIER TAPE : PET  
TOP TAPE : PET,OTHER  
REEL : PS (RECYCLE MATERIAL CONTAINED)

5. COVER TAPE PEEL FORCE IS DEFINED BY IEC60286-3.

380	20.2	40.4	44	-	-	44	503480-4000	(E1) 40
							503480-3800	(E1) 38
							503480-3600	(E1) 36
330	14.2	28.4	32	-	-	32	503480-3400	(E1) 34
503480-3200							32	
503480-3000							(E1) 30	
380	-	-	-	11.5	24	24	503480-2800	(E1) 28
330							503480-2600	26
							503480-2400	24
							503480-2200	22
							503480-2000	20
							503480-1800	18
							503480-1700	17
							503480-1600	16
							503480-1400	14
							-	-
	503480-1000	10						
503480-0800	8							
503480-0600	6							
503480-0500	5							
							503480-0400	4
F	E	D	C	B	A	TAPE WIDTH	ORDER NO.	CIRCUIT

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
SYMBOLS	DIMENSION UNITS		SCALE		CURRENT REV DESC:			<div>molex</div>			
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<div>▽ = 0</div>	GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 637378			0.5 FPC CONN. E/O EMBOSSSED TAPE PACKAGE					
<div>▽ = 0</div>											
<div>▽ = 0</div>	ANGULAR TOL ± 3.0°		DRWN: YRKIM 2019/10/01			PRODUCT CUSTOMER DRAWING					
<div>▽ = 0</div>	4 PLACES ± 0.2										
<div>▼ = 0</div>	3 PLACES ± 0.25		CHK'D: SHCHU 2020/05/12			DOCUMENT NUMBER			DOC TYPE	DOC PART	REVISION
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<div>☒ = 0</div>	0 PLACES ±										
<div>■ = 0</div>	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER		SHEET NUMBER		
<div>▽ = 0</div>											
				A3-SIZE	503480	SEE TABLE	GENERAL MARKET		1 OF 1		