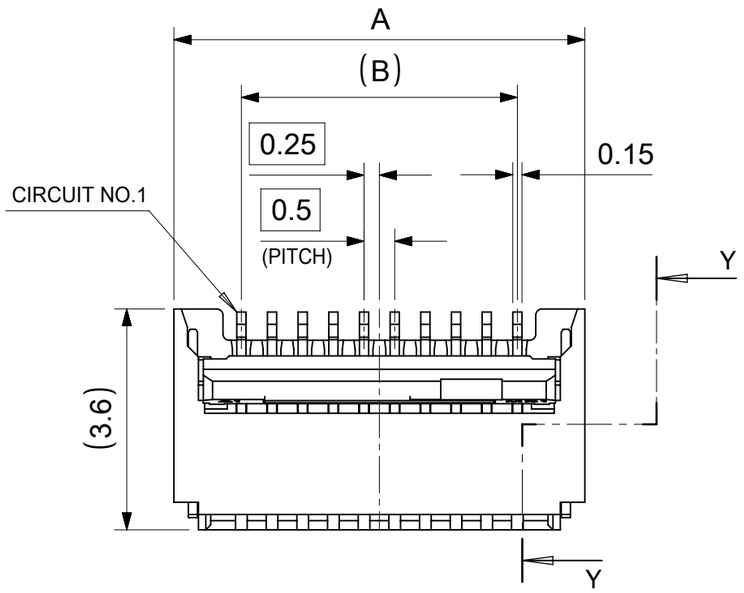
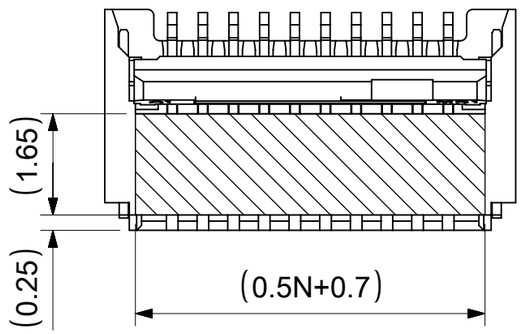
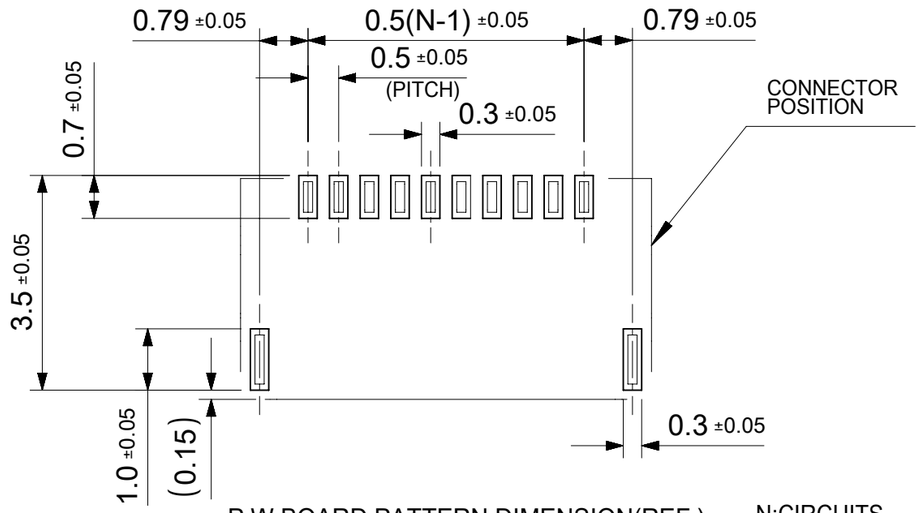




PICK-UP AREA(REF.)

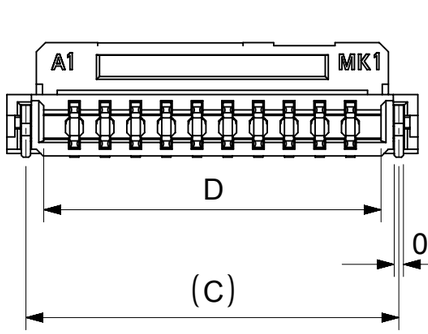
N:CIRCUITS

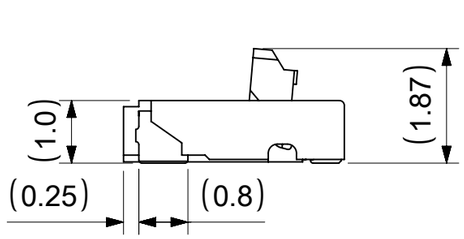


P.W.BOARD PATTERN DIMENSION(REF.)
(MOUNT AREA)

N:CIRCUITS

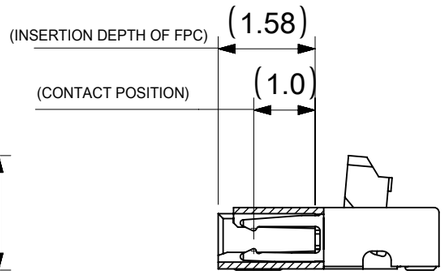
METAL MASK THICKNESS : 0.1mm
OPENING AREA : TERM.(0.7X0.3)
NAIL(1.0X0.3)



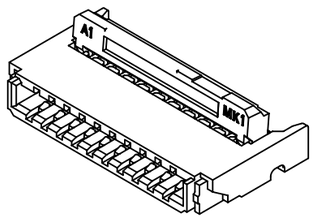


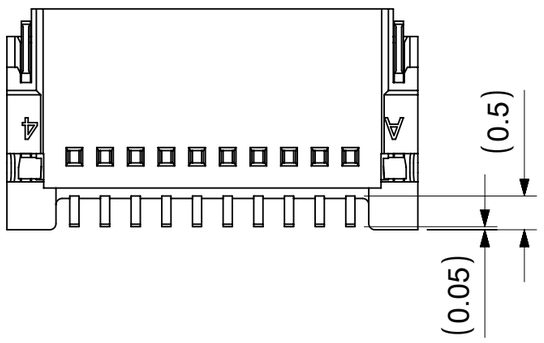
ACTUATOR OPEN CONDITION

ACTUATOR CLOSED CONDITION



SECTION Y-Y





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
D	C	B	A	EMBOSSED PACKAGE ORDER NO.	CIRCUIT

CONNECTOR SERIES No. 503480-**09

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS	SCALE
mm	1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	±	1.0 °
4 PLACES	±	0.2
3 PLACES	±	0.2
2 PLACES	±	0.2
1 PLACE	±	0.2
0 PLACES	±	0.2

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REMOVED OBSOLETED PART NUMBERS AS PER PCN#513389.

EC NO: 781755
DRWN: RAVINR1 2024/03/11
CHK'D: GGA 2024/04/10
APPR: GGA 2024/04/10

INITIAL REVISION:
DRWN: THIRAYAMA 2009/12/11
APPR: KMORIKAWA 2009/12/14

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 503480

molex

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

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-503480-001	PSD	001	J1

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE	GENERAL MARKET	1 OF 2

DOCUMENT STATUS	P1	RELEASE DATE	2024/04/10 10:13:32

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

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.

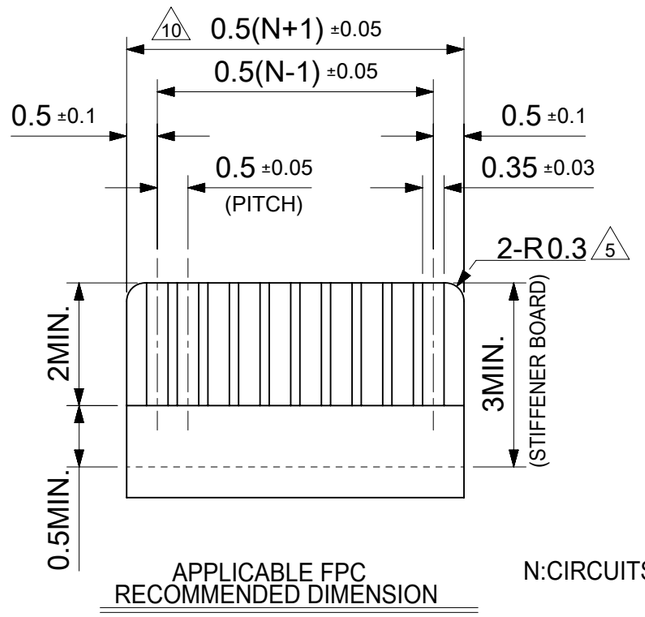
6. COPLANARITY : 0.1 MAXIMUM

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.

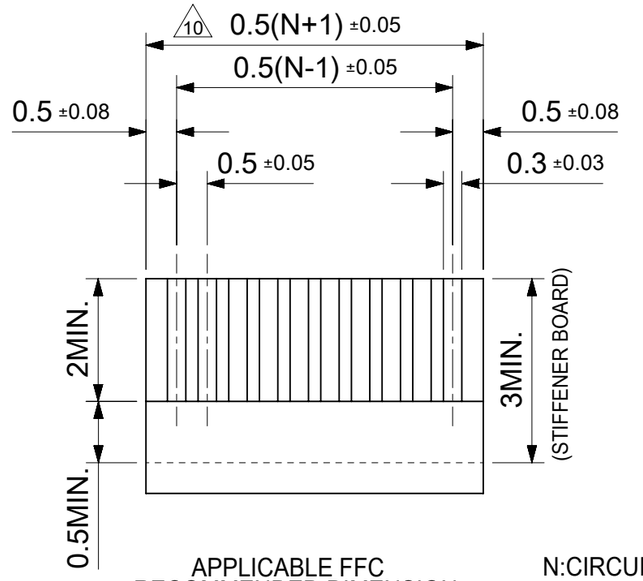
△10 PLEASE CONFIRM TO INSERT FPC IN ADVANCE WHEN FPC WIDTH IS OVER 0.5(N+1)+0.02.



APPLICABLE FPC RECOMMENDED DIMENSION

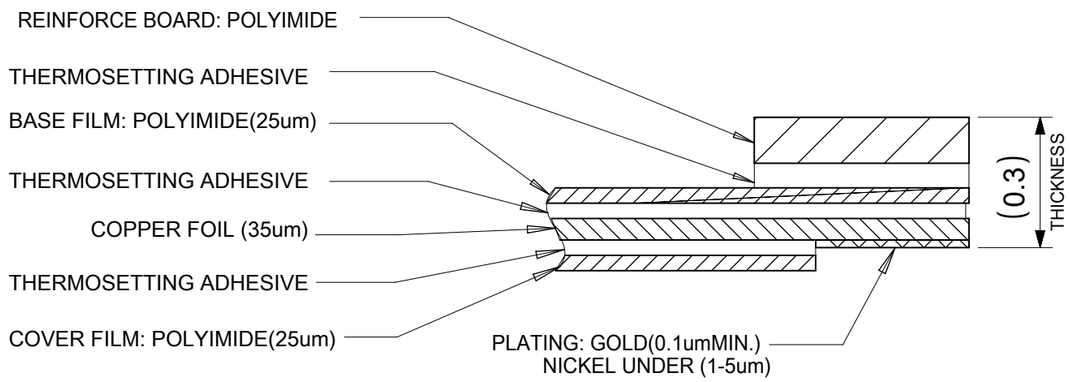
N:CIRCUITS

(THICKNESS : 0.3±0.05) : 30 OR LESS CIRCUITS
(THICKNESS : 0.3±0.03) : 31 OR OVER CIRCUITS



APPLICABLE FFC RECOMMENDED DIMENSION

N:CIRCUITS



STRUCTURE OF FPC

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS	mm
SCALE	1:1
GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL	± 1.0 °
4 PLACES	± 0.2
3 PLACES	± 0.2
2 PLACES	± 0.2
1 PLACE	± 0.2
0 PLACES	± 0.2
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

CURRENT REV DESC: REMOVED OBSOLETED PART NUMBERS AS PER PCN#513389.

EC NO: 781755
DRWN: RAVINR1 2024/03/11
CHK'D: GGA 2024/04/10
APPR: GGA 2024/04/10

INITIAL REVISION:
DRWN: THIRAYAMA 2009/12/11
APPR: KMORIKAWA 2009/12/14

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 503480

molex

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

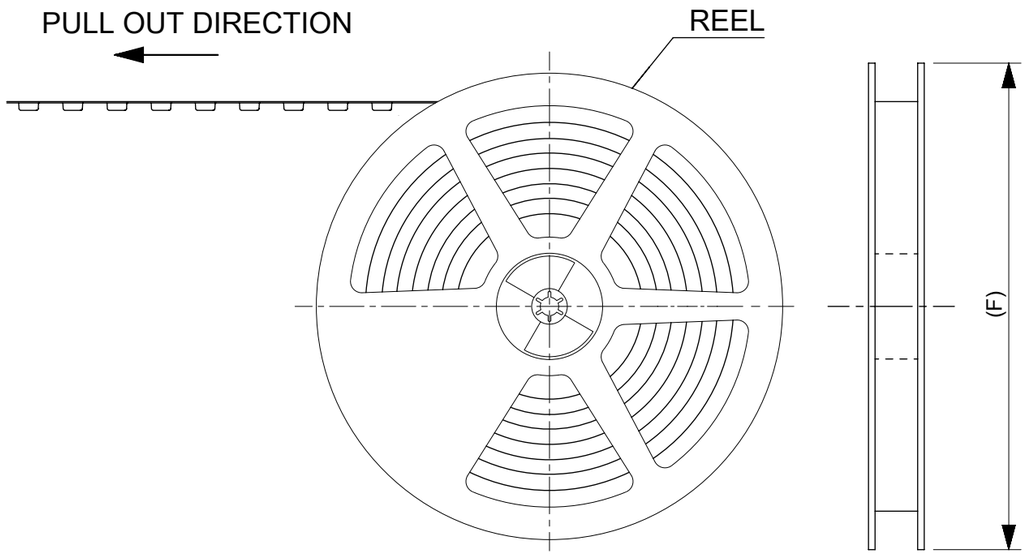
PRODUCT CUSTOMER DRAWING

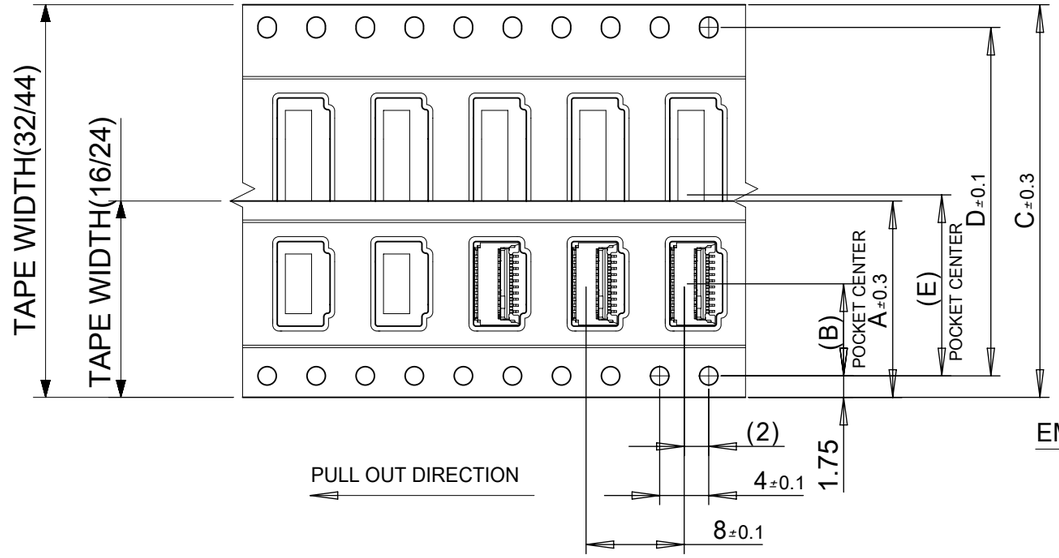
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-503480-001	PSD	001	J1

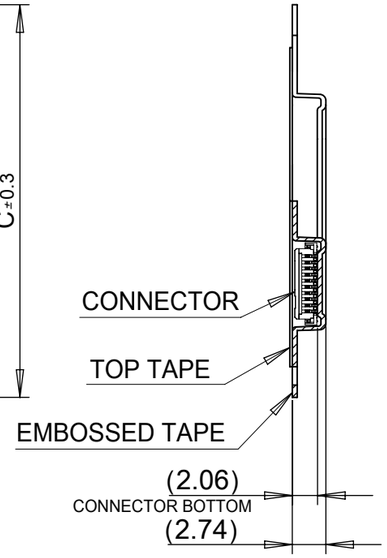
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE	GENERAL MARKET	2 OF 2

DOCUMENT STATUS	P1	RELEASE DATE	2024/04/10 10:13:32

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





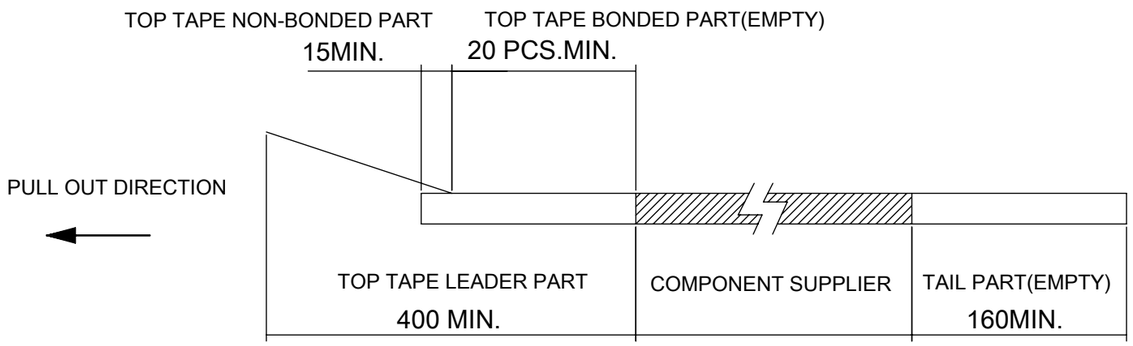


NOTES

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

2. NUMBER OF CONNECTORS : REFER TO TABLE

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.

NUMBER OF CONNECTORS	F	E	D	C	B	A	TAPE WIDTH	ORDER NO.	CIRCUIT
4500 PCS	380	20.2	40.4	44	-	-	44	503480-4000	40
								503480-3800	38
								503480-3600	36
3000 PCS	330	14.2	28.4	32			32	503480-3400	34
								503480-3200	32
4500 PCS	380							503480-3000	30
3000 PCS	330	-	-	-	11.5	24	24	503480-2800	28
								503480-2600	26
								503480-2400	24
								503480-2200	22
								503480-2000	20
								503480-1800	18
								503480-1700	17
								503480-1600	16
								503480-1400	14
		-	-	-	7.5	16	16	503480-1200	12
								503480-1000	10
								503480-0800	8
								503480-0600	6

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DIMENSION UNITS	mm
SCALE	NTS
GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL ± 3.0 °	
4 PLACES ±	
3 PLACES ±	
2 PLACES ±	
1 PLACE ±	
0 PLACES ±	
10 UNDER : ±0.20	
10 OVER 30 UNDER : ±0.25	
30 OVER : ±0.30	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	
THIRD ANGLE PROJECTION	
DRAWING	A3-SIZE
SERIES	503480

CURRENT REV DESC:

EC NO: 801777
DRWN: KYHWANG 2024/10/04
CHK'D: SMARUYAMA 2025/04/08
APPR: YNAITO 2025/04/16

INITIAL REVISION:
DRWN: THIRAYAMA 2009/12/11
APPR: KMORIKAWA 2009/12/14

molex

0.5 FPC CONN. E/O
EMBOSSED TAPE PACKAGE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-503480-002	PSD	001	F

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE	GENERAL MARKET	1 OF 1

DOCUMENT STATUS	P1	RELEASE DATE	2025/04/16 04:19:42

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