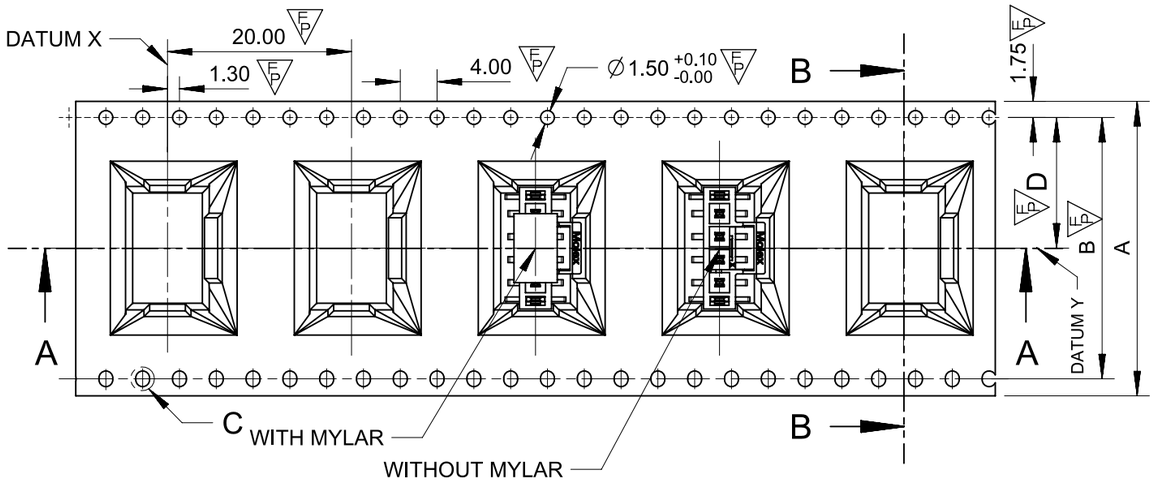
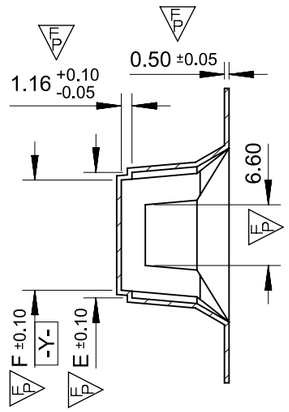
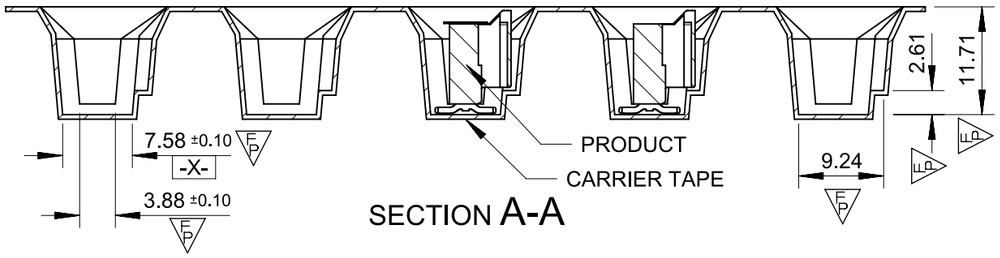
CARRIER TAPE SPEC FOR SMT SINGLE VERTICAL HEADER OF NANO-FIT					
CARRIER TAPE NUMBER	DIM A	DIM B	DIM D	DIM E	DIM F
105431-8001	24.00	N/A	11.50	8.63	6.97
105431-8002	24.00	N/A	11.50	11.13	9.47
105431-8003	32.00	28.40	14.20	13.63	11.97
105431-8004	32.00	28.40	14.20	16.13	14.47
105431-8005	44.00	40.40	20.20	18.63	16.97
105431-8006	44.00	40.40	20.20	21.13	19.47
105431-8007	44.00	40.40	20.20	23.63	21.97

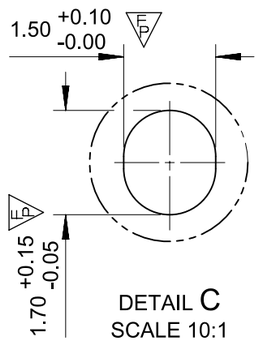




SECTION B-B

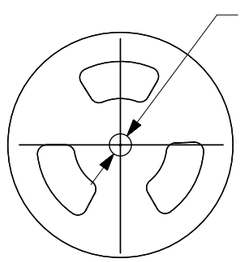


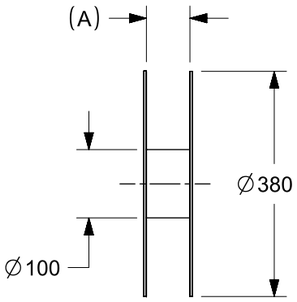
SECTION A-A



DETAIL C
SCALE 10:1

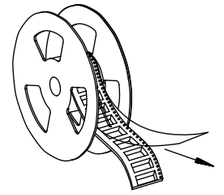
USER FEEDING DIRECTION





NOTES :

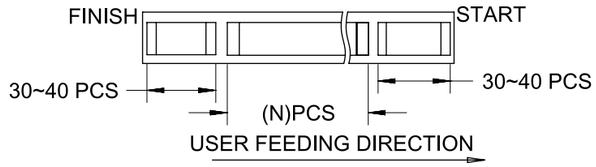
1.REELING DIRECTION IN DELIVERY.



USER FEEDING DIRECTION

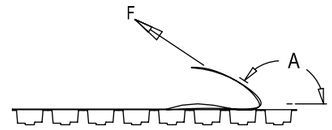
2.USER FEEDING DIRECTION

CONNECTOR MOUNTING PART LEADER EMPTY

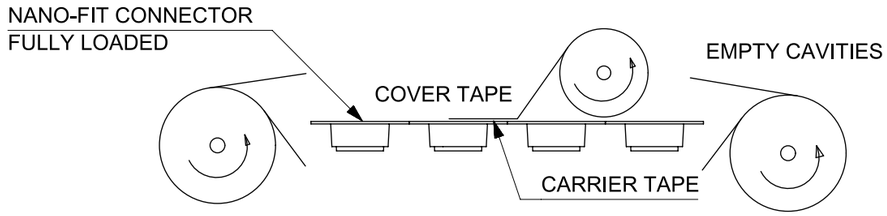


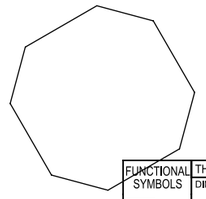
3.COVER TAPE PEELING FORCE

PEELING SPEED 300mm/Min.(REF.)



A	170°~180°
F	0.1N~1.3N





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

FUNCTIONAL SYMBOLS: FA = 0, FC = 0, FP = 0

DIVISIONAL SYMBOLS

DIMENSION UNITS	SCALE
mm	1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	±	°
4 PLACES	±	
3 PLACES	±	
2 PLACES	±	0.13
1 PLACE	±	0.25
0 PLACES	±	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 670810
DRWN: GLLI 2021/07/21
CHK'D: YXZHENG 2021/07/22
APPR: YXZHENG 2021/07/22

INITIAL REVISION:
DRWN: GLLI 2021/07/21
APPR: YXZHENG 2021/07/22

THIRD ANGLE PROJECTION

DRAWING	SERIES
A3-SIZE	105431

molex

PACKING DRAWING FOR NANO-FIT

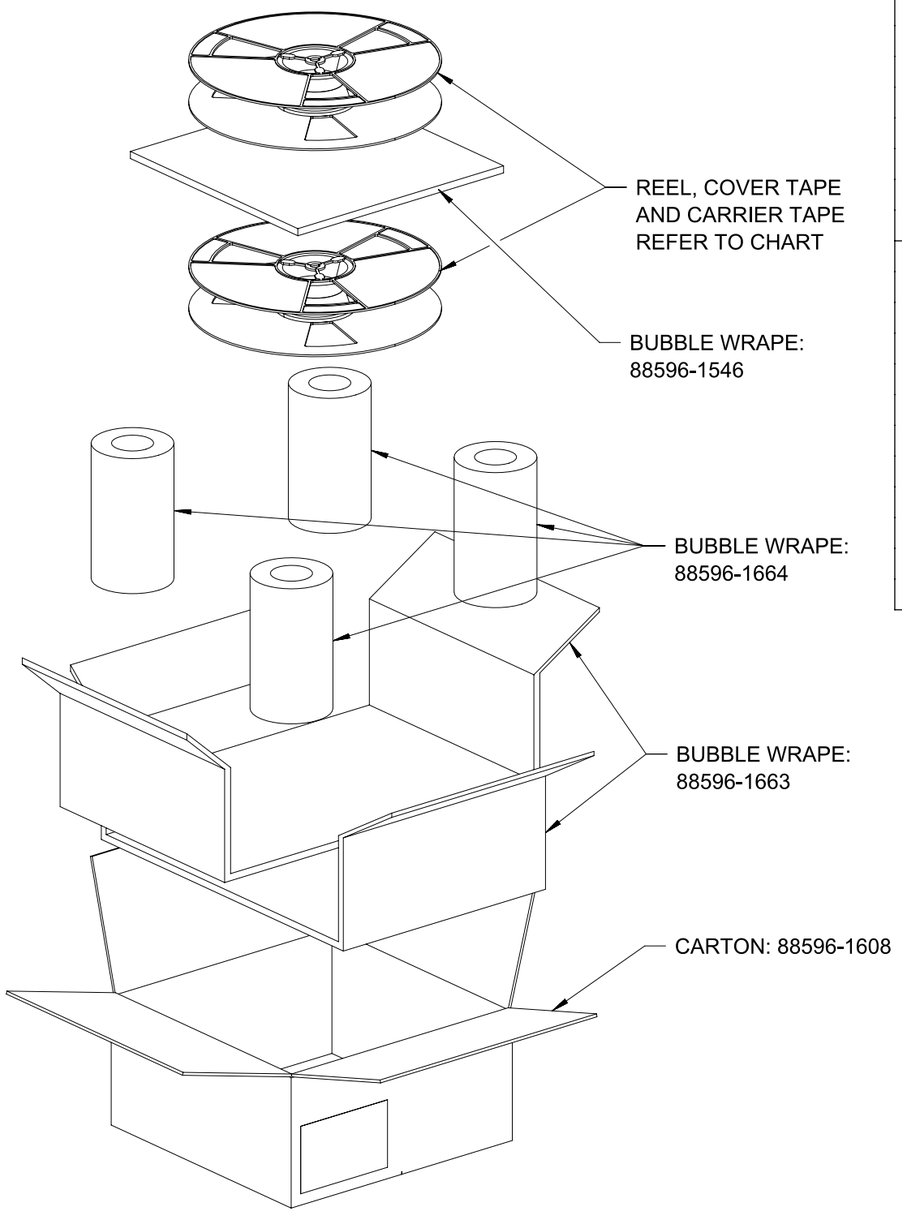
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1054311000-PK	PSD	000	A

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	1 OF 2

RELEASE STATUS	P1	RELEASE DATE	2021/07/22 09:31:37

FORMAT: master-tb-mod-A3
REVISION: J
DATE: 2020/01/14



REEL	COVER TAPE	CARRIER TAPE	PRODUCT NUMBER		PARTS PER REEL	REELS PER CARTON	PARTS PER CARTON
885961399	894990121	105431-8001	WITH MYLAR	105431-1102, 105431-1202, 105431-1302, 105431-1402	300	3	900
				105431-2102, 105431-2202, 105431-2302, 105431-2402			
			WITHOUT MYLAR	105431-1502, 105431-1602, 105431-1702, 105431-1802			
				105431-2502, 105431-2602, 105431-2702, 105431-2802			
		105431-8002	WITH MYLAR	105431-1103, 105431-1203, 105431-1303, 105431-1403	300	3	900
				105431-2103, 105431-2203, 105431-2303, 105431-2403			
			WITHOUT MYLAR	105431-1503, 105431-1603, 105431-1703, 105431-1803			
				105431-2503, 105431-2603, 105431-2703, 105431-2803			
885961400	894990122	105431-8003	WITH MYLAR	105431-1104, 105431-1204, 105431-1304, 105431-1404	300	3	900
				105431-2104, 105431-2204, 105431-2304, 105431-2404			
			WITHOUT MYLAR	105431-1504, 105431-1604, 105431-1704, 105431-1804			
				105431-2504, 105431-2604, 105431-2704, 105431-2804			
		105431-8004	WITH MYLAR	105431-1105, 105431-1205, 105431-1305, 105431-1405	300	3	900
				105431-2105, 105431-2205, 105431-2305, 105431-2405			
			WITHOUT MYLAR	105431-1505, 105431-1605, 105431-1705, 105431-1805			
				105431-2505, 105431-2605, 105431-2705, 105431-2805			
885961401	894990123	105431-8005	WITH MYLAR	105431-1106, 105431-1206, 105431-1306, 105431-1406	300	2	600
				105431-2106, 105431-2206, 105431-2306, 105431-2406			
			WITHOUT MYLAR	105431-1506, 105431-1606, 105431-1706, 105431-1806			
				105431-2506, 105431-2606, 105431-2706, 105431-2806			
		105431-8006	WITH MYLAR	105431-1107, 105431-1207, 105431-1307, 105431-1407	300	2	600
				105431-2107, 105431-2207, 105431-2307, 105431-2407			
			WITHOUT MYLAR	105431-1507, 105431-1607, 105431-1707, 105431-1807			
				105431-2507, 105431-2607, 105431-2707, 105431-2807			
		105431-8007	WITH MYLAR	105431-1108, 105431-1208, 105431-1308, 105431-1408	300	2	600
				105431-2108, 105431-2208, 105431-2308, 105431-2408			
			WITHOUT MYLAR	105431-1508, 105431-1608, 105431-1708, 105431-1808			
				105431-2508, 105431-2608, 105431-2708, 105431-2808			

NOTES :

1. STAPLES SHOULD ONLY BE USED TO SET UP CARTON. ALL CARTONS CLOSURES MUST BE DONE WITH TAPE.
2. FILL PACKAGING BAGS WITH THE QUANTITIES AS INDICATED IN THE CHART

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

FUNCTIONAL SYMBOLS: FA = 0, FC = 0, FP = 0

DIVISIONAL SYMBOLS

DIMENSION UNITS: mm | SCALE: 1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± °
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.13
1 PLACE	± 0.25
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 670810
DRWN: GLLI 2021/07/21
CHK'D: YXZHENG 2021/07/22
APPR: YXZHENG 2021/07/22

INITIAL REVISION:
DRWN: GLLI 2021/07/21
APPR: YXZHENG 2021/07/22

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 105431

molex

PACKING DRAWING FOR NANO-FIT

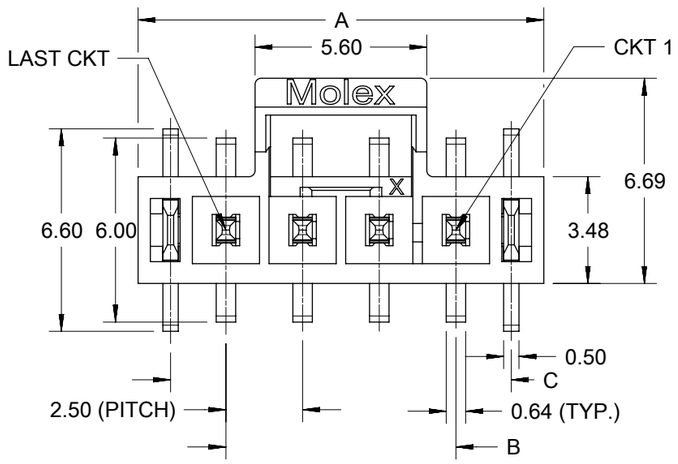
PRODUCT CUSTOMER DRAWING

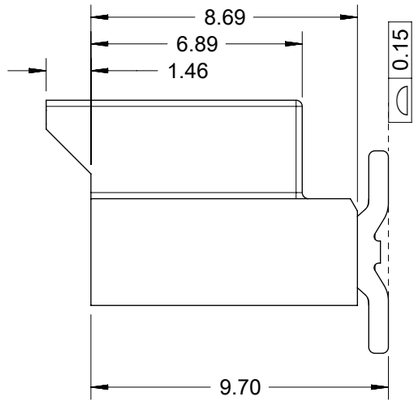
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1054311000-PK	PSD	000	A

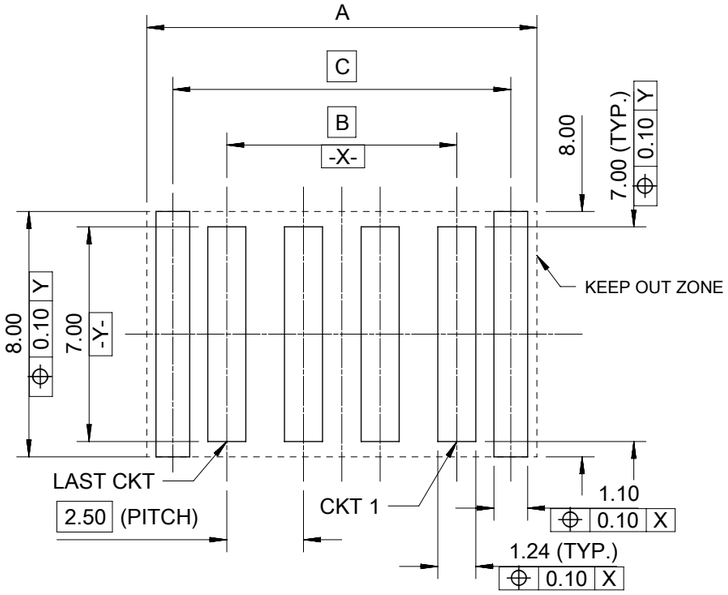
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	2 OF 2

RELEASE STATUS	P1	RELEASE DATE	2021/07/22 09:31:37

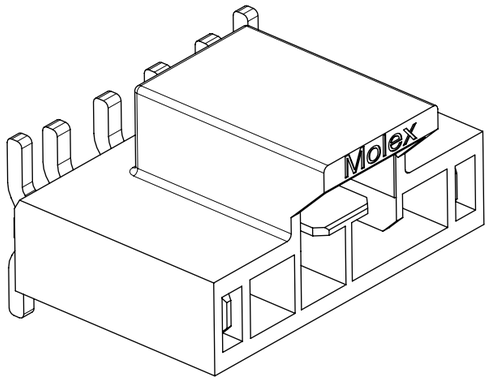
FORMAT: master-drawing-A3
REVISION: J
DATE: 2020/01/14



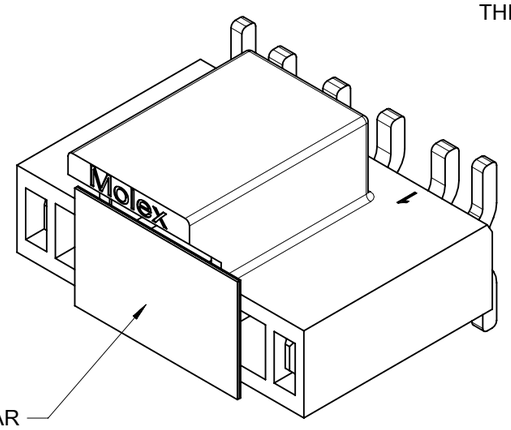




RECOMMENDED PCB LAYOUT(CONNECTOR SIDE VIEW)
THICKNESS=1.60mm MIN. TOLERANCE:±0.05



WITHOUT MYLAR



WITH MYLAR

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DIMENSION UNITS	mm
SCALE	NTS
GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL ±	3.0 °
4 PLACES ±	
3 PLACES ±	
2 PLACES ±	0.2
1 PLACE ±	0.3
0 PLACES ±	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

CURRENT REV DESC:

EC NO: 826596
DRWN: GLLI 2021/12/03
CHK'D: XQZHANG 2025/06/26
APPR: XQZHANG 2025/06/26

INITIAL REVISION:
DRWN: WJHUO 2014/12/17
APPR: AYIN 2015/03/12

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 105431

molex

SD DRAWING FOR
NANO-FIT HEADER OF SMT VERTICAL SINGLE CONN.

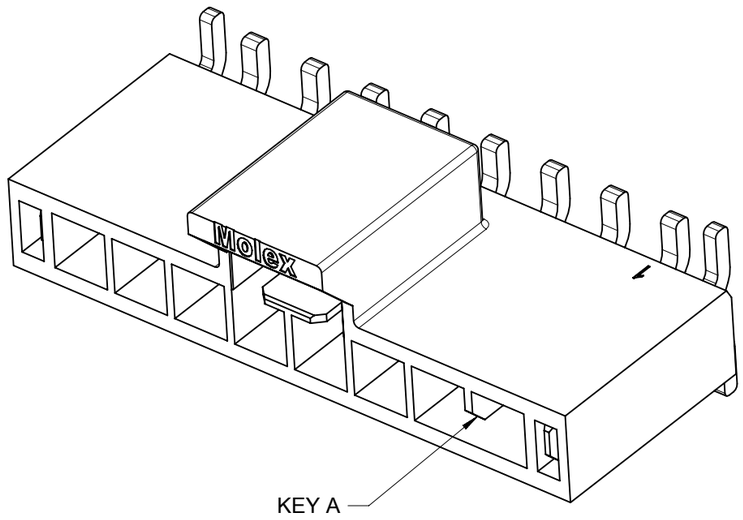
PRODUCT CUSTOMER DRAWING

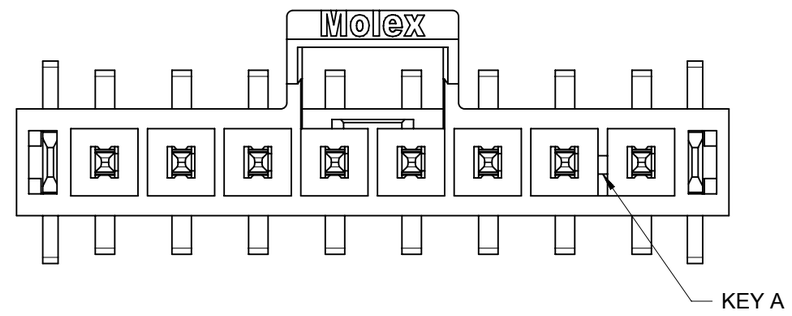
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-105431-001	PSD	000	D2

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	1 OF 4

DOCUMENT STATUS	P1	RELEASE DATE	2025/06/26 09:45:57

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





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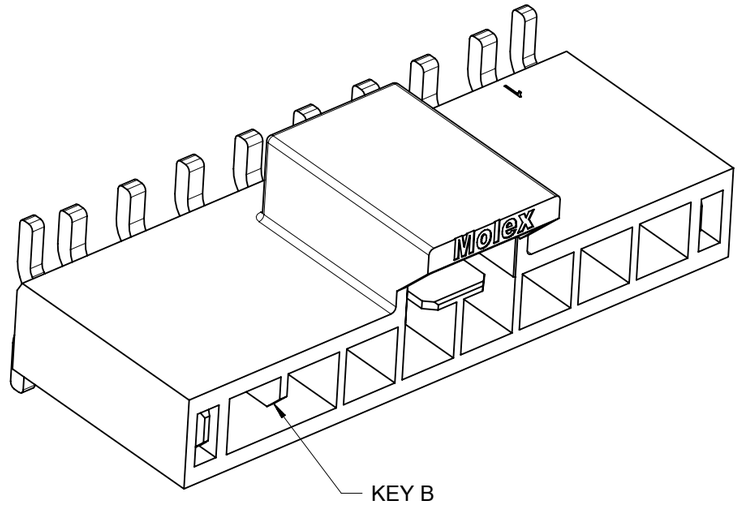
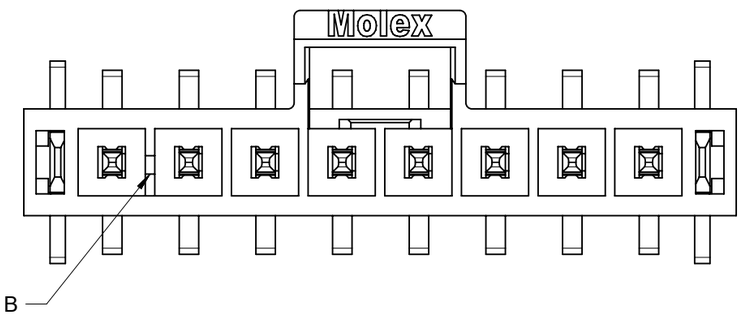




NATURAL

COLOR OPTION

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

DIMENSION UNITS	SCALE
mm	NTS

GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL	± 3.0 °
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.2
1 PLACE	± 0.3
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 826596
DRWN: GLLI 2021/12/03
CHK'D: XQZHANG 2025/06/26
APPR: XQZHANG 2025/06/26

INITIAL REVISION:
DRWN: WJHUO 2014/12/17
APPR: AYIN 2015/03/12

molex

SD DRAWING FOR
NANO-FIT HEADER OF SMT VERTICAL SINGLE CONN.

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-105431-001	PSD	000	D2

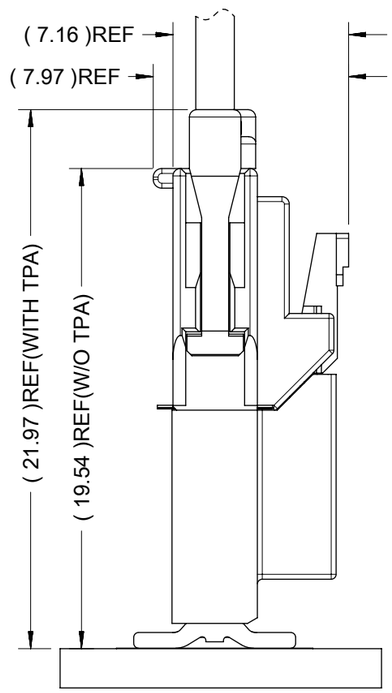
THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	A3-SIZE	105431		GENERAL MARKET	2 OF 4

DOCUMENT STATUS	P1	RELEASE DATE	2025/06/26 09:45:57

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

PART NUMBER (WITH MYLAR)	PART NUMBER (WITHOUT MYLAR)	DIM. A	DIM. B	DIM. C	CKT SIZE	PLATING	LUBE
105431-1102	105431-1502	8.23	2.50	6.11	2	TIN	NO
105431-1103	105431-1503	10.73	5.00	8.61	3		
105431-1104	105431-1504	13.23	7.50	11.11	4		
105431-1105	105431-1505	15.73	10.00	13.61	5		
105431-1106	105431-1506	18.23	12.50	16.11	6		
105431-1107	105431-1507	20.73	15.00	18.61	7		
105431-1108	105431-1508	23.23	17.50	21.11	8		
105431-1202	105431-1602	8.23	2.50	6.11	2	GOLD 0.38	
105431-1203	105431-1603	10.73	5.00	8.61	3		
105431-1204	105431-1604	13.23	7.50	11.11	4		
105431-1205	105431-1605	15.73	10.00	13.61	5		
105431-1206	105431-1606	18.23	12.50	16.11	6		
105431-1207	105431-1607	20.73	15.00	18.61	7		
105431-1208	105431-1608	23.23	17.50	21.11	8		
105431-1302	105431-1702	8.23	2.50	6.11	2	GOLD 0.76	
105431-1303	105431-1703	10.73	5.00	8.61	3		
105431-1304	105431-1704	13.23	7.50	11.11	4		
105431-1305	105431-1705	15.73	10.00	13.61	5		
105431-1306	105431-1706	18.23	12.50	16.11	6		
105431-1307	105431-1707	20.73	15.00	18.61	7		
105431-1308	105431-1708	23.23	17.50	21.11	8		
105431-1402	105431-1802	8.23	2.50	6.11	2	GOLD 0.76	YES
105431-1403	105431-1803	10.73	5.00	8.61	3		
105431-1404	105431-1804	13.23	7.50	11.11	4		
105431-1405	105431-1805	15.73	10.00	13.61	5		
105431-1406	105431-1806	18.23	12.50	16.11	6		
105431-1407	105431-1807	20.73	15.00	18.61	7		
105431-1408	105431-1808	23.23	17.50	21.11	8		

COLOR: BLACK



PART NUMBER (WITH MYLAR)	PART NUMBER (WITHOUT MYLAR)	DIM. A	DIM. B	DIM. C	CKT SIZE	PLATING	LUBE
105431-2102	105431-2502	8.23	2.50	6.11	2	TIN	NO
105431-2103	105431-2503	10.73	5.00	8.61	3		
105431-2104	105431-2504	13.23	7.50	11.11	4		
105431-2105	105431-2505	15.73	10.00	13.61	5		
105431-2106	105431-2506	18.23	12.50	16.11	6		
105431-2107	105431-2507	20.73	15.00	18.61	7		
105431-2108	105431-2508	23.23	17.50	21.11	8		
105431-2202	105431-2602	8.23	2.50	6.11	2	GOLD 0.38	
105431-2203	105431-2603	10.73	5.00	8.61	3		
105431-2204	105431-2604	13.23	7.50	11.11	4		
105431-2205	105431-2605	15.73	10.00	13.61	5		
105431-2206	105431-2606	18.23	12.50	16.11	6		
105431-2207	105431-2607	20.73	15.00	18.61	7		
105431-2208	105431-2608	23.23	17.50	21.11	8		
105431-2302	105431-2702	8.23	2.50	6.11	2	GOLD 0.76	
105431-2303	105431-2703	10.73	5.00	8.61	3		
105431-2304	105431-2704	13.23	7.50	11.11	4		
105431-2305	105431-2705	15.73	10.00	13.61	5		
105431-2306	105431-2706	18.23	12.50	16.11	6		
105431-2307	105431-2707	20.73	15.00	18.61	7		
105431-2308	105431-2708	23.23	17.50	21.11	8		
105431-2402	105431-2802	8.23	2.50	6.11	2	GOLD 0.76	YES
105431-2403	105431-2803	10.73	5.00	8.61	3		
105431-2404	105431-2804	13.23	7.50	11.11	4		
105431-2405	105431-2805	15.73	10.00	13.61	5		
105431-2406	105431-2806	18.23	12.50	16.11	6		
105431-2407	105431-2807	20.73	15.00	18.61	7		
105431-2408	105431-2808	23.23	17.50	21.11	8		

COLOR: NATURAL

NOTES FOR ALL PARTS	
1> MATERIAL: HOUSING: LCP, UL 94V-0. TERMINAL: BRASS. SOLDER CLIP: BRASS. 2> PLATING FINISHED: TERMINAL: CONTACT AREA: a. REFLOWED MATTE TIN 0.76 MICRONS MIN; b. GOLD 0.38 MICRONS MIN; c. GOLD 0.76 MICRONS MIN. SOLDER AREA: TIN 0.76 MICRONS MINIMUM. UNDER PALTING NICKEL 1.25 MICRONS MINIMUM. SOLDER CLIP: TIN 2.5 MICRONS MINIMUM; UNDER PLATING NICKEL 1.25 MICRONS MINIMUM.	3> PRODUCT SPECIFICATION: PS-105405-001. 4> PACKAGE: TAPE REEL, DETAILS REFER TO DRAWING 1054311000-PK. 5> PRODUCT MATE WITH SERIES OF 105307 AND 226354(RECEPTACLE). 6> PARTS CONFORM TO CLASS 'B' REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

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DIMENSION UNITS	SCALE
mm	NTS

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 3.0 °
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.2
1 PLACE	± 0.3
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 826596
DRWN: GLLI 2021/12/03
CHK'D: XQZHANG 2025/06/26
APPR: XQZHANG 2025/06/26

INITIAL REVISION:
DRWN: WJHUO 2014/12/17
APPR: AYIN 2015/03/12

molex

SD DRAWING FOR
NANO-FIT HEADER OF SMT VERTICAL SINGLE CONN.

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-105431-001	PSD	000	D2

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	A3-SIZE	105431		GENERAL MARKET	3 OF 4

DOCUMENT STATUS	P1	RELEASE DATE	2025/06/26 09:45:57

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

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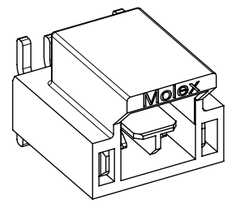
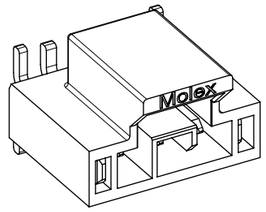
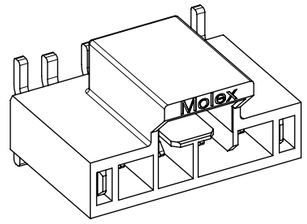
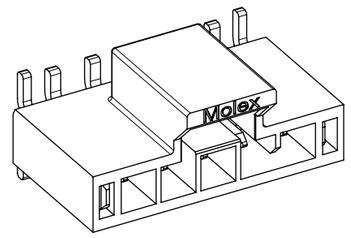
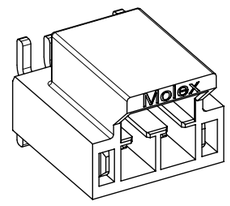
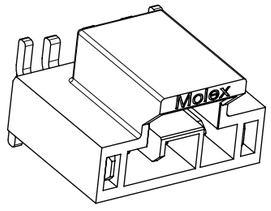
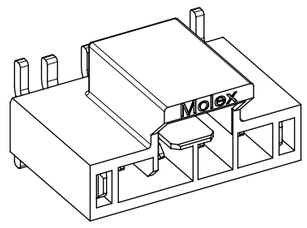
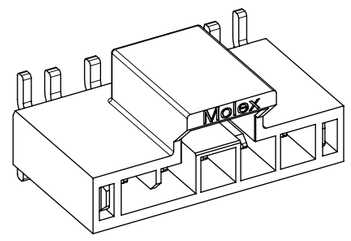
BLACK				
NATURAL				

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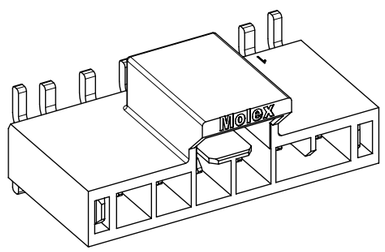
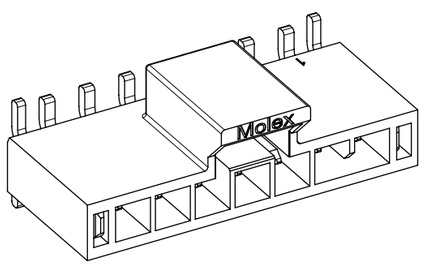
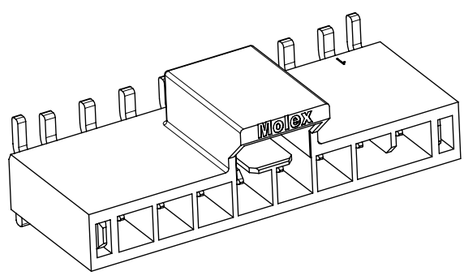
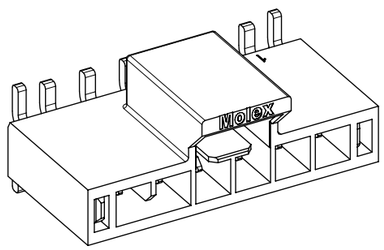
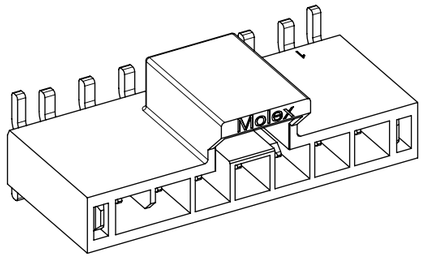
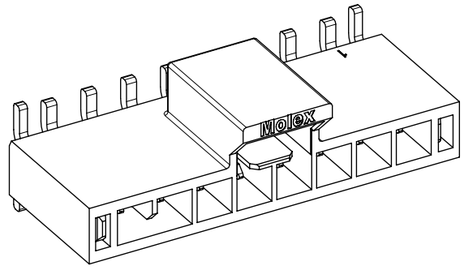
BLACK			
NATURAL			

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THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 105431

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SD DRAWING FOR
NANO-FIT HEADER OF SMT VERTICAL SINGLE CONN.

PRODUCT CUSTOMER DRAWING

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SD-105431-001	PSD	000	D2

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	4 OF 4

DOCUMENT STATUS	P1	RELEASE DATE	2025/06/26 09:45:57

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