

1. MATERIAL:  
HOUSING: LIQUID CRYSTALLINE POLYMER, GLASS FILLED, UL94V-0, BLACK  
TERMINAL: HIGH PERFORMANCE COPPER ALLOY  
FINISHES: SEE PART NUMBER LEGEND IN SHEET 2
2. PRODUCT SPECIFICATION: 781200001\_PS
3. PACKAGING SPECIFICATION: 781200001\_PK
4. MATES WITH: 87933, 200989, 201021, 201022, 201173
5. PARTS CONFORMS TO CLASS "B" REQUIREMENT OF COSMETIC SPECIFICATION PS-45499-002
6. MOLEX LOGO AND CAVITY LOCATED AS SHOWN.
7. NON-FUNCTIONAL CORING IS SUBJECTED TO CHANGES WITHOUT NOTICE.
8. THE ABOVE 24 CKT SHOWN IS FOR ILLUSTRATION ONLY.



CKT SIZE	DIMENSION	
	A	B
4	2.75	1.27
6	4.02	2.54
8	5.29	3.81
10	6.56	5.08
12	7.83	6.35
14	9.10	7.62
16	10.37	8.89
18	11.64	10.16
20	12.91	11.43
22	14.18	12.70
24	15.45	13.97



RECOMMENDED PCB LAYOUT  
TOLERANCE  $\pm 0.05$   
(24 CKT SHOWN IS FOR ILLUSTRATION ONLY)

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC:		<b>molex</b>	
DIMENSION UNITS	SCALE				
MM	NTS			1.27MM PITCH SLIM-GRID VERTICAL SMT RECEPTACLE	
GENERAL TOLERANCES (UNLESS SPECIFIED)				PRODUCT CUSTOMER DRAWING	
ANGULAR TOL	$\pm 3.0^\circ$			DOCUMENT NUMBER	
4 PLACES	$\pm$	EC NO: 672044	2021/07/26	781200001	
3 PLACES	$\pm$	DRWN: ABABUPS	2021/07/30	DOC TYPE	DOC PART
2 PLACES	$\pm 0.2$	CHK'D: MRAMAKRISHNA	2021/07/30	PSD	000
1 PLACE	$\pm$	APPR: MRAMAKRISHNA	2021/07/30	A3	
0 PLACES	$\pm$	INITIAL REVISION:		REVISION	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRWN: SCHEONG	2016/02/21		
THIRD ANGLE PROJECTION		APPR: KHLIM	2016/07/18		
DRAWING		SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
A3-SIZE		78120	SEE TABLE	GENERAL MARKET	1 OF 3

CKT SIZE	ASSEMBLY P/N WITHOUT KAPTON TAPE IN TUBE	ASSEMBLY P/N WITH KAPTON TAPE IN TUBE (TOOLED)	ASSEMBLY P/N WITH KAPTON TAPE IN T&R (NOT TOOLED)
4	78120-0407	78120-0417	78120-0427
	78120-0408	78120-0418	78120-0428
	78120-0409	78120-0419	78120-0429
6	78120-0607	78120-0617	78120-0627
	78120-0608	78120-0618	78120-0628
	78120-0609	78120-0619	78120-0629
8	78120-0807	78120-0817	78120-0827
	78120-0808	78120-0818	78120-0828
	78120-0809	78120-0819	78120-0829
10	78120-1007	78120-1017	78120-1027
	78120-1008	78120-1018	78120-1028
	78120-1009	78120-1019	78120-1029
12	78120-1207	78120-1217	78120-1227
	78120-1208	78120-1218	78120-1228
	78120-1209	78120-1219	78120-1229
14	78120-1407	78120-1417	78120-1427
	78120-1408	78120-1418	78120-1428
	78120-1409	78120-1419	78120-1429
16	78120-1607	78120-1617	78120-1627
	78120-1608	78120-1618	78120-1628
	78120-1609	78120-1619	78120-1629
18	78120-1807	78120-1817	78120-1827
	78120-1808	78120-1818	78120-1828
	78120-1809	78120-1819	78120-1829
20	78120-2007	78120-2017	78120-2027
	78120-2008	78120-2018	78120-2028
	78120-2009	78120-2019	78120-2029
22	78120-2207	78120-2217	78120-2227
	78120-2208	78120-2218	78120-2228
	78120-2209	78120-2219	78120-2229
24	78120-2407	78120-2417	78120-2427
	78120-2408	78120-2418	78120-2428
	78120-2409	78120-2419	78120-2429



## LEGEND

78120-X X X X

CKT SIZE
04 = 4 CKTS
.
24 = 24 CKTS

<b>FINISHES</b>
7 = 0.05um Au MIN. GOLD ON CONTACT AND 2.54um MIN. MATTE TIN ON SOLDER TAIL OVER 1.27um MIN. NICKEL UNDERPLATE OVERALL
8 = 0.38um Au MIN. GOLD ON CONTACT AND 2.54um MIN. MATTE TIN ON SOLDER TAIL OVER 1.27um MIN. NICKEL UNDERPLATE OVERALL
9 = 0.76um Au MIN. GOLD ON CONTACT AND 2.54um MIN. MATTE TIN ON SOLDER TAIL OVER 1.27um MIN. NICKEL UNDERPLATE OVERALL
<b>PACKAGING &amp; PICK AND PLACE CAPABILITY</b>
0 = NO KAPTON TAPE IN TUBE
1 = WITH KAPTON TAPE IN TUBE
2 = WITH KAPTON TAPE IN TAPE AND REEL

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DIMENSION UNITS		SCALE		CURRENT REV DESC:				<b>molex</b>	
MM		NTS						1.27MM PITCH SLIM-GRID VERTICAL SMT RECEPTACLE	
GENERAL TOLERANCES (UNLESS SPECIFIED)									
ANGULAR TOL		± 3.0°						PRODUCT CUSTOMER DRAWING	
4 PLACES		±		EC NO: 672044		2021/07/26		DOCUMENT NUMBER	
3 PLACES		±		DRWN: ABABUPS		2021/07/30		DOC TYPE	
2 PLACES		± 0.2		CHK'D: MRAMAKRISHNA		2021/07/30		DOC PART	
1 PLACE		±		APPR: MRAMAKRISHNA		2021/07/30		REVISION	
0 PLACES		±		INITIAL REVISION:				781200001	
				DRWN: SCHEONG		2016/02/21		PSD	
				APPR: KHLIM		2016/07/18		000	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER	
				A3-SIZE		78120		CUSTOMER	
								GENERAL MARKET	
								SHEET NUMBER	
								2 OF 3	

BOARD TO BOARD (BTB) DISTANCE

HEADER	MATES WITH (RECEPTACLE)	BTB DIST.	PICTORIAL VIEW
201021	78120	9.23	
87933		7.57	
200989		7.86	
201022		7.81	
201173		13.77	

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DIMENSION UNITS	SCALE	CURRENT REV DESC:							
MM	NTS								
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 672044			1.27MM PITCH SLIM-GRID VERTICAL SMT RECEPTACLE				
ANGULAR TOL ± 3.0°		DRWN: ABABUPS 2021/07/26							
4 PLACES ±	CHK'D: MRAMAKRISHNA 2021/07/30			PRODUCT CUSTOMER DRAWING					
3 PLACES ±	APPR: MRAMAKRISHNA 2021/07/30								
2 PLACES ± 0.2	INITIAL REVISION:			DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION		
1 PLACE ±	DRWN: SCHEONG 2016/02/21			781200001	PSD	000	A3		
0 PLACES ±	APPR: KHLIM 2016/07/18			MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	SEE TABLE		GENERAL MARKET	3 OF 3	