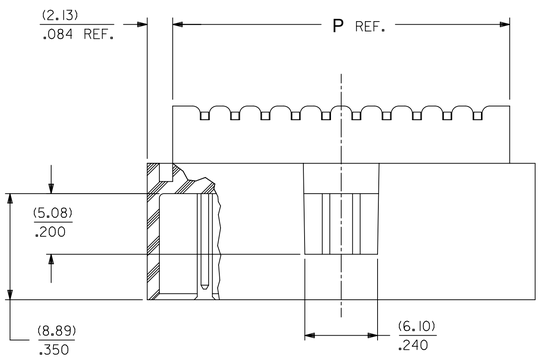
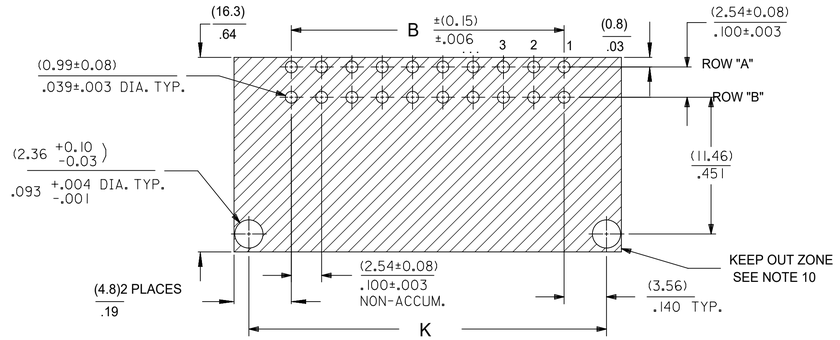
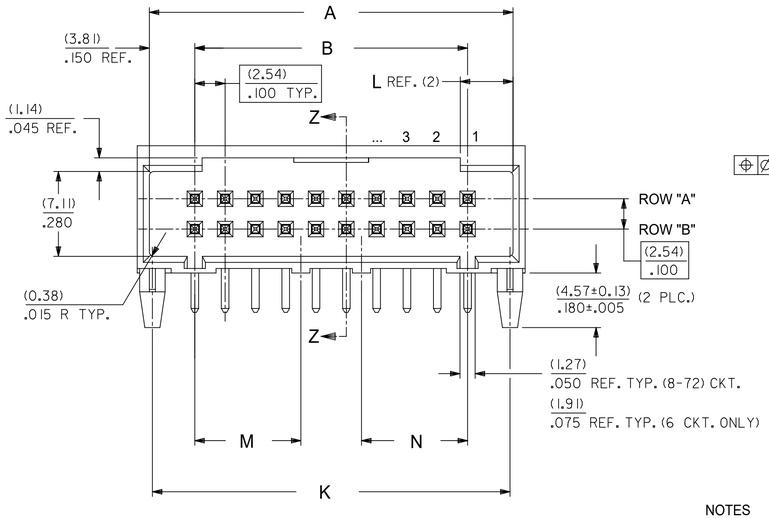
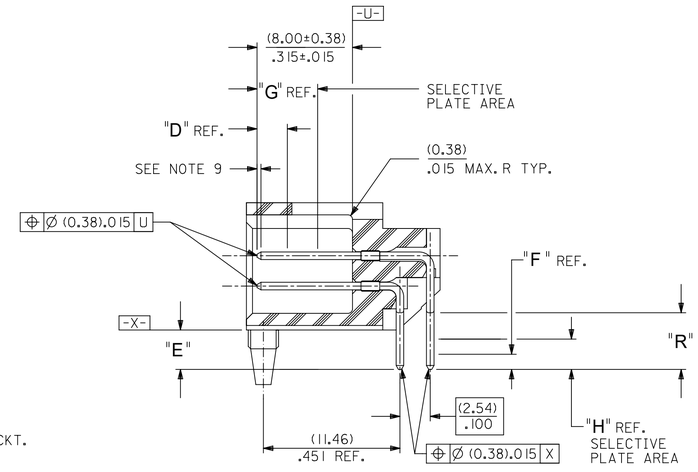


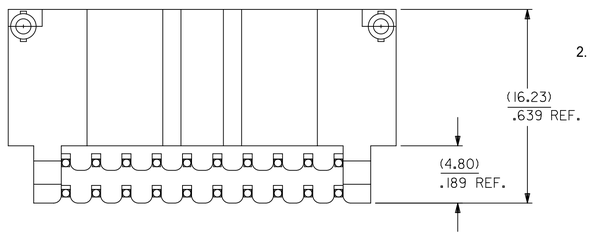


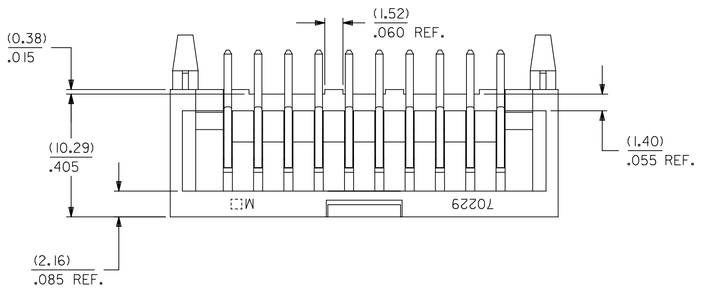
RECOMMENDED P.C. BOARD HOLE LAYOUT





SECTION Z-Z





NOTES

1. MATERIAL: SHROUDED WAFER: GLASS FILLED, LIQUID CRYSTAL POLYMER,
   COLOR: BLACK; UL94V-0
   PINS: COPPER ALLOY
2. FINISH:
   TIN - 3.81 MICROMETERS/150 MICROINCHES MINIMUM TIN PLATE
   OVER NICKEL UNDERPLATE OVERALL
   15 GOLD - 0.38 MICROMETERS/15 MICROINCHES MINIMUM GOLD PLATE IN SELECT AREA
   1.91 MICROMETERS/75 MICROINCHES MINIMUM TIN PLATE IN SELECT AREA
   OVER NICKEL UNDERPLATE OVERALL
   30 GOLD - 0.76 MICROMETERS/30 MICROINCHES MINIMUM GOLD PLATE IN SELECT AREA
   1.91 MICROMETERS/75 MICROINCHES MINIMUM TIN PLATE IN SELECT AREA
   OVER NICKEL UNDERPLATE OVERALL
   50 GOLD - 1.27 MICROMETERS/50 MICROINCHES MINIMUM GOLD PLATE IN SELECT AREA
   1.91 MICROMETERS/75 MICROINCHES MINIMUM TIN PLATE IN SELECT AREA
   OVER NICKEL UNDERPLATE OVERALL
3. PRODUCT SPECIFICATION: PS-74164-0001
4. PACKAGING INFORMATION: SEE CHART
5. 20 CIRCUIT SIZE SHOWN FOR ILLUSTRATION PURPOSES.
6. PIN PUSHOUT FORCE: (17.79 N)/4 LBS.
7. PINS MUST MEET SOLDERABLILITY SPEC. MIL-STD-202 METHOD 208B.
8. FOR CHARTED DIMENSIONS AND ASSEMBLY NO.S NOT SHOWN ON THIS SHEET - SEE SHEET 2.
9. ROW TO ROW PIN HEIGHT VARIATION MUST NOT EXCEED (0.25)/.010 IN.
10. NO FEATURES WHICH RISE ABOVE THE PCB SURFACE ALLOWED IN THIS AREA
11. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

CKT.	DIM. "A"	DIM. "B"	DIM. "K"	DIM. "L"	DIM. "M"	DIM. "N"	DIM. "P"	
06	(12.70) .500	(5.08) .200	(12.19) .480	(3.30) .130			(10.46) .412	
08	(15.24) .600	(7.62) .300	(14.73) .580	(4.42) .174			(13.00) .512	
10	(17.78) .700	(10.16) .400	(17.27) .680	(4.42) .174			(15.54) .612	
12	(20.32) .800	(12.70) .500	(19.81) .780	(4.42) .174			(18.08) .712	
14	(22.86) .900	(15.24) .600	(22.35) .880	(4.42) .174			(20.62) .812	
16	(25.40) 1.000	(17.78) .700	(24.89) .980	(4.42) .174			(23.16) .912	
18	(27.94) 1.100	(20.32) .800	(27.43) 1.080	(4.42) .174			(25.70) 1.012	
20	(30.48) 1.200	(22.86) .900	(29.97) 1.180	(4.42) .174			(28.24) 1.112	
22	(33.02) 1.300	(25.40) 1.000	(32.51) 1.280	(4.42) .174			(30.78) 1.212	
24	(35.56) 1.400	(27.94) 1.100	(35.05) 1.380	(4.42) .174	(16.64) .655		(33.32) 1.312	
26	(38.10) 1.500	(30.48) 1.200	(37.59) 1.480	(4.42) .174	(16.64) .655		(35.86) 1.412	
28	(40.64) 1.600	(33.02) 1.300	(40.13) 1.580	(4.42) .174	(16.64) .655		(38.40) 1.512	
30	(43.18) 1.700	(35.56) 1.400	(42.67) 1.680	(4.42) .174	(16.64) .655		(40.94) 1.612	
32	(45.72) 1.800	(38.10) 1.500	(45.21) 1.780	(4.42) .174	(16.64) .655		(43.48) 1.712	
34	(48.26) 1.900	(40.64) 1.600	(47.75) 1.880	(4.42) .174	(16.64) .655	(16.76) .660	(46.02) 1.812	
36	(50.80) 2.000	(43.18) 1.700	(50.29) 1.980	(4.42) .174	(16.64) .655	(16.76) .660	(48.56) 1.912	
38	(53.34) 2.100	(45.72) 1.800	(52.83) 2.080	(4.42) .174	(16.64) .655	(16.76) .660	(51.10) 2.012	
40	(55.88) 2.200	(48.26) 1.900	(55.37) 2.180	(4.42) .174	(16.64) .655	(16.76) .660	(53.64) 2.112	
42	(58.42) 2.300	(50.80) 2.000	(57.91) 2.280	(4.42) .174	(16.64) .655	(16.76) .660	(56.18) 2.212	
44	(60.96) 2.400	(53.34) 2.100	(60.45) 2.380	(4.42) .174	(19.05) .750	(16.76) .660	(58.72) 2.312	
46	(63.50) 2.500	(55.88) 2.200	(62.99) 2.480	(4.42) .174	(19.05) .750	(16.76) .660	(61.26) 2.412	
48	(66.04) 2.600	(58.42) 2.300	(65.53) 2.580	(4.42) .174	(19.05) .750	(16.76) .660	(63.80) 2.512	
50	(68.58) 2.700	(60.96) 2.400	(68.07) 2.680	(4.42) .174	(19.05) .750	(16.76) .660	(66.34) 2.612	
52	(71.12) 2.800	(63.50) 2.500	(70.61) 2.780	(4.42) .174	(19.05) .750	(16.76) .660	(68.88) 2.712	
54	(73.66) 2.900	(66.04) 2.600	(73.15) 2.880	(4.42) .174	(21.59) .850	(21.84) .860	(71.42) 2.812	
56	(76.20) 3.000	(68.58) 2.700	(75.69) 2.980	(4.42) .174	(21.59) .850	(21.84) .860	(73.96) 2.912	
58	(78.74) 3.100	(71.12) 2.800	(78.23) 3.080	(4.42) .174	(27.81) 1.095	(26.92) 1.060	(76.50) 3.012	
60	(81.28) 3.200	(73.66) 2.900	(80.77) 3.180	(4.42) .174	(27.81) 1.095	(26.92) 1.060	(79.04) 3.112	
62	(83.82) 3.300	(76.20) 3.000	(83.31) 3.280	(4.42) .174	(27.81) 1.095	(26.92) 1.060	(81.58) 3.212	
64	(86.36) 3.400	(78.74) 3.100	(85.85) 3.380	(4.42) .174	(27.81) 1.095	(26.92) 1.060	(84.12) 3.312	
66	(88.90) 3.500	(81.28) 3.200	(88.39) 3.480	(4.42) .174	(27.81) 1.095	(26.92) 1.060	(86.66) 3.412	
68	(91.44) 3.600	(83.82) 3.300	(90.93) 3.580	(4.42) .174	(27.81) 1.095	(26.92) 1.060	(89.20) 3.512	
70	(93.98) 3.700	(86.36) 3.400	(93.47) 3.680	(4.42) .174	(27.81) 1.095	(26.92) 1.060	(91.74) 3.612	
72	(96.52) 3.800	(88.90) 3.500	(96.01) 3.780	(4.42) .174	(27.81) 1.095	(26.92) 1.060	(94.28) 3.712	

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

DIMENSION UNITS: MM/IN
SCALE: 4:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

	MM	INCH
4 PLACES	±	±
3 PLACES	±	± 0.01
2 PLACES	± 0.25	± 0.014
1 PLACE	± 0.36	±
0 PLACES	±	±
ANGULAR TOL	± 0.5 °	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REMOVED OBSOLETED PART NUMBERS AS PER PCN#515931

EC NO: 812933
DRWN: MADHAM5 2025/02/07
CHK'D: GGA 2025/03/03
APPR: GGA 2025/03/03

INITIAL REVISION:
DRWN: MIBARRA 2009/03/30
APPR: SMILLER 2009/03/30

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 74164

molex

SALES ASSEMBLY
RIGHT ANGLE SHROUDED
W/PC BOARD STAB PEGS

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-74164-001	PSD	001	B1

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

DOCUMENT STATUS	P1	RELEASE DATE	2025/03/03 16:52:27

ITEM NUMBER 74164	E REF	R REF	PLATING FINISH	CONNECTOR END PLATING				PC BOARD END PLATING			INFORMATION PK-70873	VOIDED CIRCUITS
				TYPE	G LENGTH	D MEAS.		TYPE	H LENGTH	F MEAS.		
-0006-0072	3.30 / .130	4.75 / .187	15 GOLD	GOLD	5.08 / .200	2.54 / .100		TIN	3.81 / .150	2.54 / .100	0019	
-0106-0172	3.30 / .130	4.75 / .187	TIN	TIN	———	2.54 / .100		TIN	———	2.54 / .100	0019	
-0206-0272	3.30 / .130	4.75 / .187	50 GOLD	GOLD	5.08 / .200	2.54 / .100		TIN	3.81 / .150	2.54 / .100	0019	
-0306-0372	3.30 / .130	4.75 / .187	30 GOLD	GOLD	5.08 / .200	2.54 / .100		TIN	3.81 / .150	2.54 / .100	0019	
-3001	3.30 / .130	4.75 / .187	15 GOLD	GOLD	5.08 / .200	2.54 / .100		TIN	3.81 / .150	2.54 / .100	0019	A14, A15, A16, A18, A19, A22, A23 B14, B15, B16, B18, B19, B22, B23
	———	———			———	———			———	———		
	———	———			———	———			———	———		

NO. OF CKTS	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER
6	74164-0006	74164-0106	74164-0206	74164-0306			
8	74164-0008	74164-0108	74164-0208	74164-0308			
10	74164-0010	74164-0110	74164-0210	74164-0310			
12	74164-0012	74164-0112	74164-0212	74164-0312			
14	74164-0014	74164-0114	74164-0214	74164-0314			
16	74164-0016	74164-0116	74164-0216	74164-0316			
18	74164-0018	74164-0118	74164-0218	74164-0318			
20	74164-0020	74164-0120	74164-0220	74164-0320			
22	74164-0022	74164-0122	74164-0222	74164-0322			
24	74164-0024	74164-0124	74164-0224	74164-0324			
26	74164-0026	74164-0126	74164-0226	74164-0326			
28	74164-0028	74164-0128	74164-0228	74164-0328			
30	74164-0030	74164-0130	74164-0230	74164-0330			
32	74164-0032	74164-0132	74164-0232	74164-0332			
34	74164-0034	74164-0134	74164-0234	74164-0334			
36	74164-0036	74164-0136	74164-0236	74164-0336			
38	74164-0038	74164-0138	74164-0238	74164-0338			
40	74164-0040	74164-0140	74164-0240	74164-0340			
42	74164-0042	74164-0142	74164-0242	74164-0342			
44	74164-0044	74164-0144	74164-0244	74164-0344			
46	74164-0046	74164-0146	74164-0246	74164-0346			
48	74164-0048	74164-0148	74164-0248	74164-0348			
50	74164-0050	74164-0150	74164-0250	74164-0350		74164-3001	
52	74164-0052	74164-0152	74164-0252	74164-0352			
54	74164-0054	74164-0154	74164-0254	74164-0354			
56	74164-0056	74164-0156	74164-0256	74164-0356			
58	74164-0058	74164-0158	74164-0258	74164-0358			
60	74164-0060	74164-0160	74164-0260	74164-0360			
62	74164-0062	74164-0162	74164-0262	74164-0362			
64	74164-0064	74164-0164	74164-0264	74164-0364			
66	74164-0066	74164-0166	74164-0266	74164-0366			
68	74164-0068	- - -	74164-0268	74164-0368			
70	74164-0070	74164-0170	74164-0270	74164-0370			
72	74164-0072	74164-0172	74164-0272	74164-0372			

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DIMENSION UNITS	SCALE
MM/IN	1:1

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CURRENT REV DESC: REMOVED OBSOLETED PART NUMBERS AS PER PCN#515931

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molex

SALES ASSEMBLY
RIGHT ANGLE SHROUNDED
W/PC BOARD STAB PEGS

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-74164-001	PSD	001	B1

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	D-SIZE	74164	SEE TABLE	GENERAL MARKET	2 OF 2

DOCUMENT STATUS	P1	RELEASE DATE	2025/03/03 16:52:27

TEMPLATE: X:\cy-dsg\e-master-ltr.prod.0
VERSION: 7.0
DATE: 2021/05/01