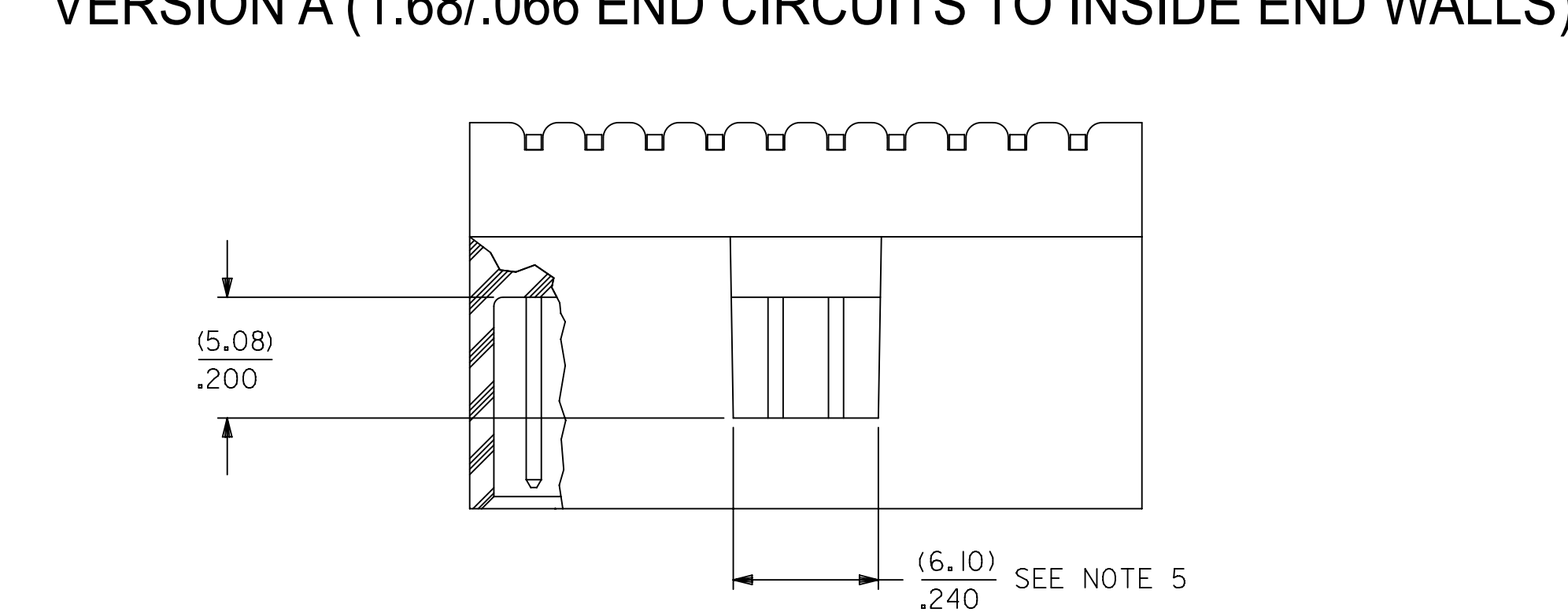
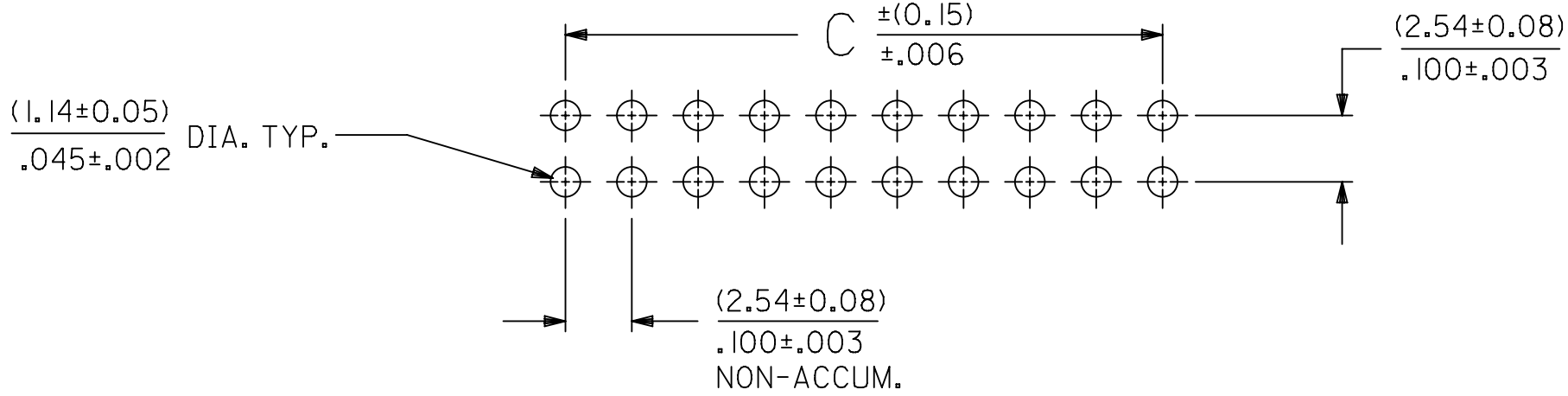
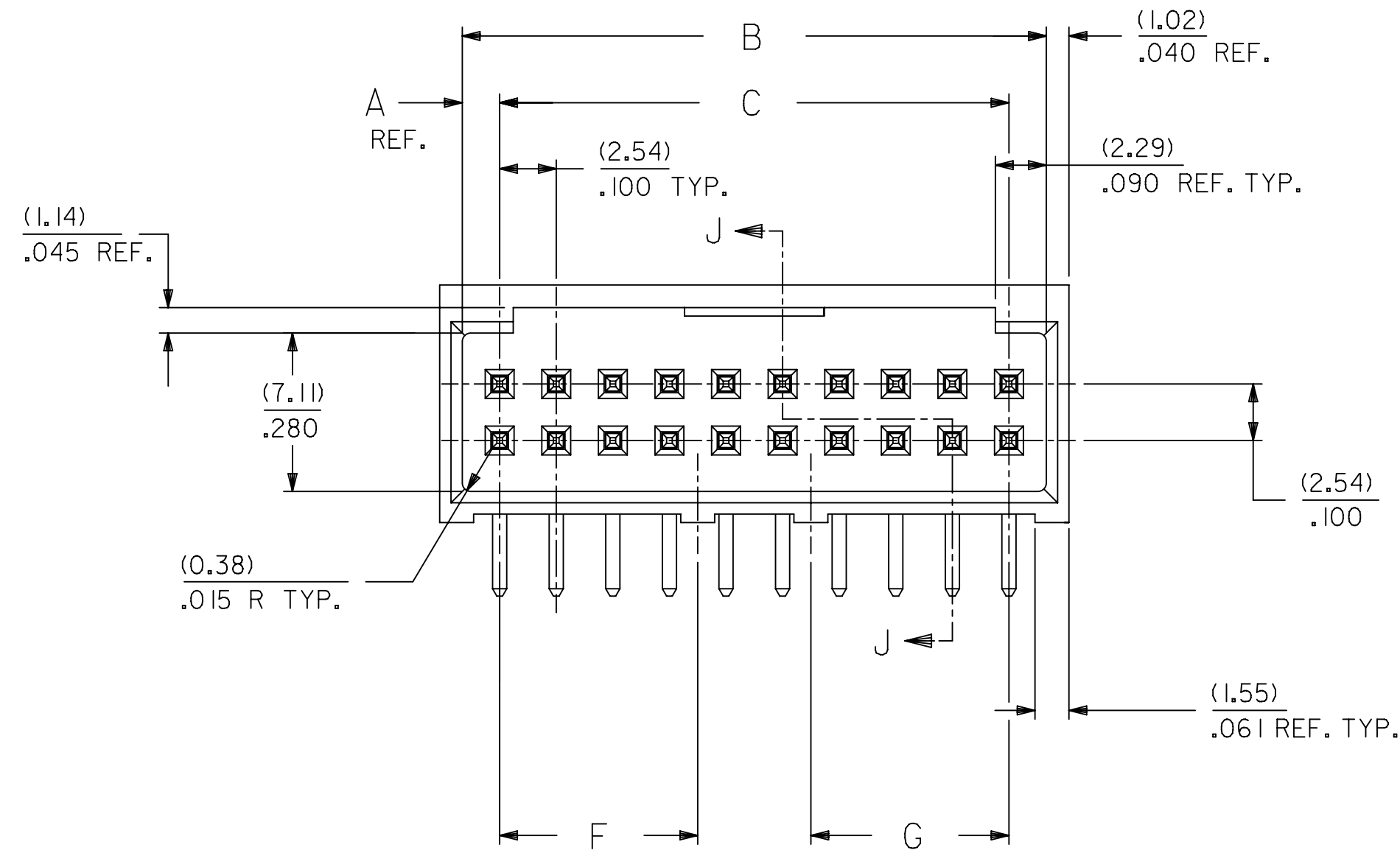
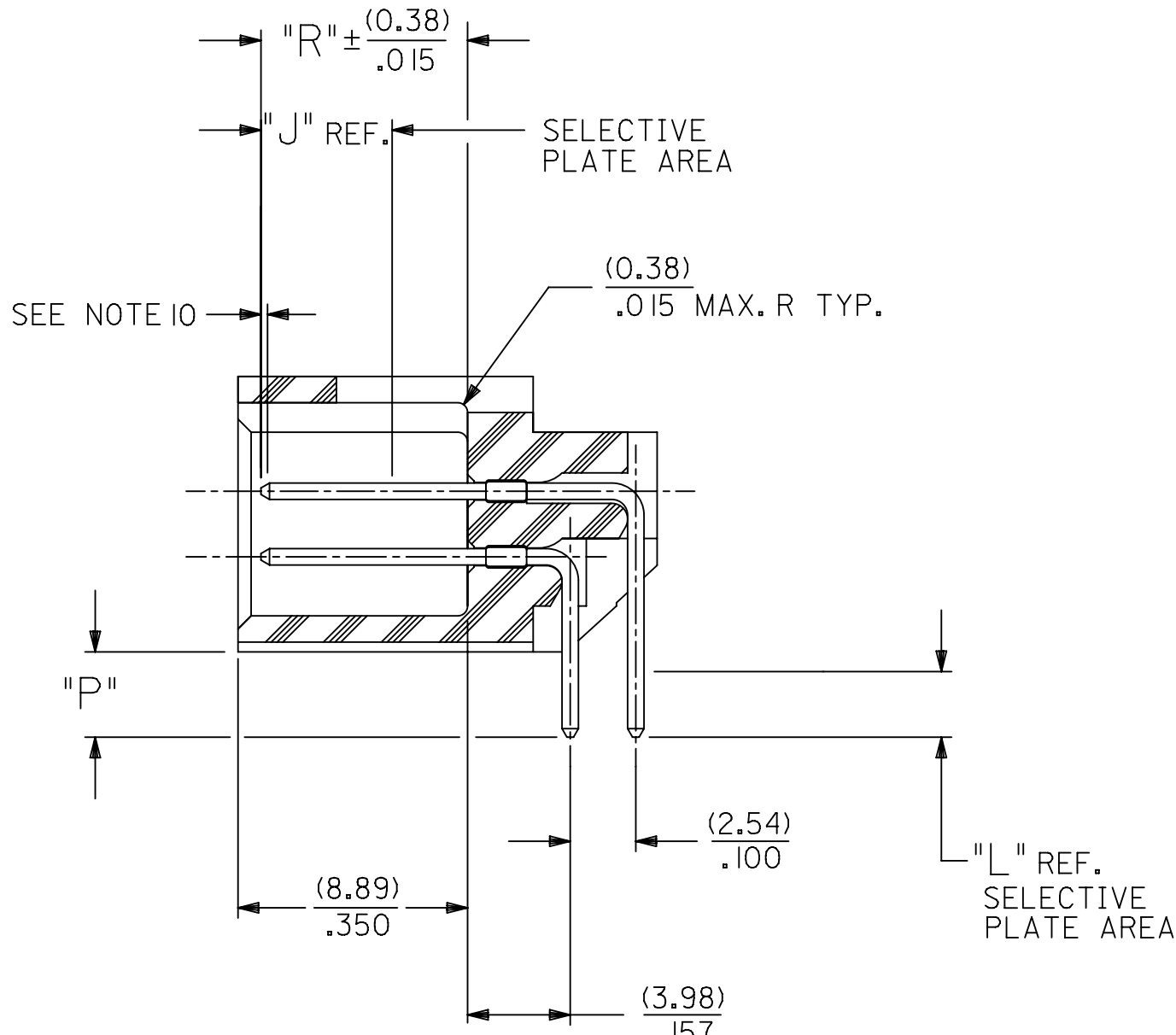


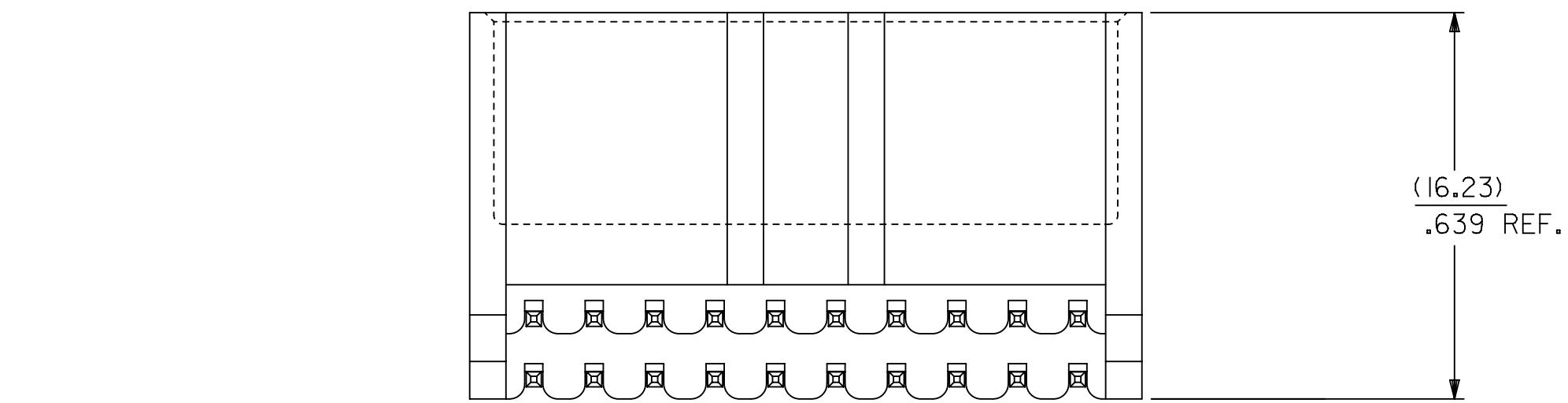
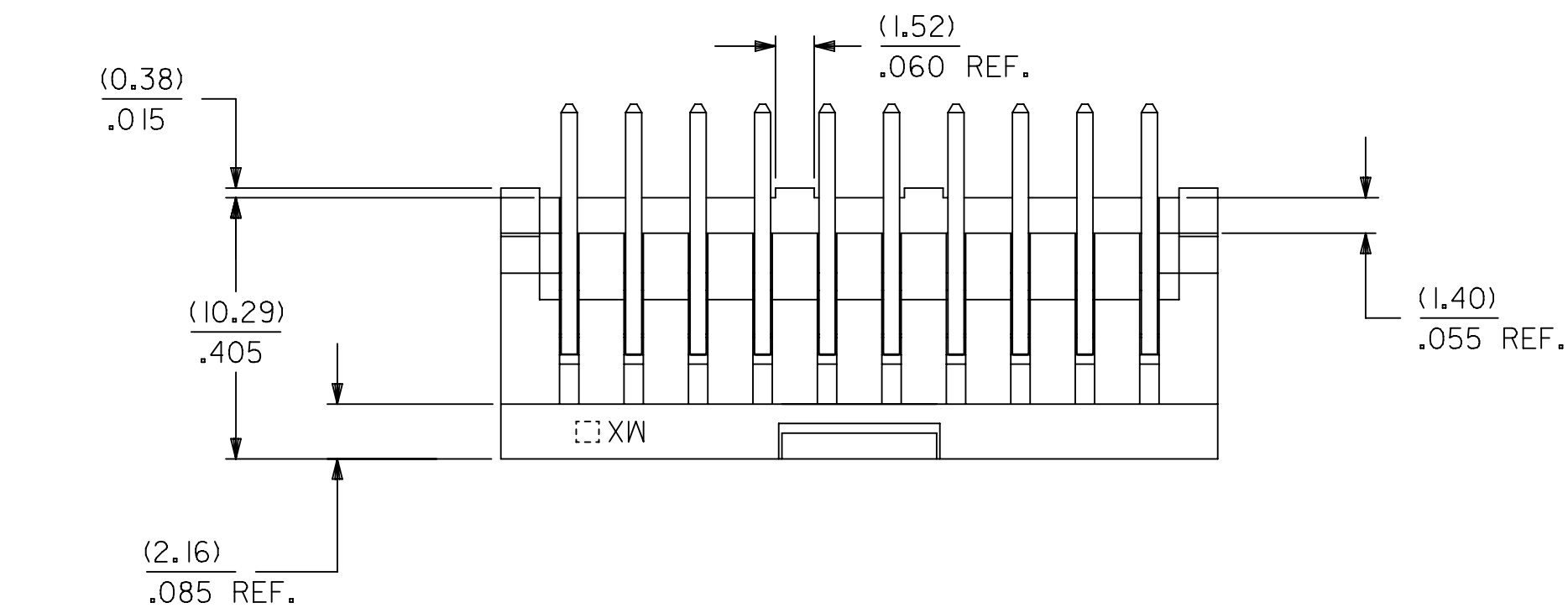
VERSION A (1.68/.066 END CIRCUITS TO INSIDE END WALLS)



SECTION J-J

NOTES

- MATERIAL: SHROUDED WAFER: GLASS FILLED, LIQUID CRYSTAL POLYMER, COLOR: BLACK; UL94V-0
PINS: COPPER ALLOY
- 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
- PRODUCT SPECIFICATION: PS-74162-0001
- PACKAGING INFORMATION: SEE CHARTS
- WINDOW NOT AVAILABLE ON 6 CKT.
- FOR CHARTED DIMENSIONS AND ASSEMBLY NO.S NOT SHOWN ON THIS SHEET - SEE SHEET 2.
- 20 CIRCUIT SIZE SHOWN FOR ILLUSTRATION PURPOSES.
- PIN PUSHOUT FORCE: (17.79 N)/4 LBS.
- PINS MUST MEET SOLDERABILITY SPEC. MIL-STD-202 METHOD 208B.
- ROW TO ROW PIN HEIGHT VARIATION MUST NOT EXCEED (0.25)/.010 IN.
- THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.



CKT.	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "F"	DIM. "G"			
06	(1.68) .066	(8.43) .332	(5.08) .200	—	—	—		
08	(1.68) .066	(10.97) .432	(7.62) .300	—	—	—		
10	(1.68) .066	(13.51) .532	(10.16) .400	—	—	—		
12	(1.68) .066	(16.05) .632	(12.70) .500	—	—	—		
14	(1.68) .066	(18.59) .732	(15.24) .600	—	—	—		
16	(1.68) .066	(21.13) .832	(17.78) .700	—	—	—		
18	(1.68) .066	(23.67) .932	(20.32) .800	—	—	—		
20	(1.68) .066	(26.21) 1.032	(22.86) .900	—	—	—		
22	(1.68) .066	(28.75) 1.132	(25.40) 1.000	—	—	—		
24	(1.68) .066	(31.29) 1.232	(27.94) 1.100	(16.64) .655	—	—		
26	(1.68) .066	(33.83) 1.332	(30.48) 1.200	(16.64) .655	—	—		
28	(1.68) .066	(36.37) 1.432	(33.02) 1.300	(16.64) .655	—	—		
30	(1.68) .066	(38.91) 1.532	(35.56) 1.400	(16.64) .655	—	—		
32	(1.68) .066	(41.45) 1.632	(38.10) 1.500	(16.64) .655	—	—		
34	(1.68) .066	(43.99) 1.732	(40.64) 1.600	(16.64) .655	(16.76) .660	—		
36	(1.68) .066	(46.53) 1.832	(43.18) 1.700	(16.64) .655	(16.76) .660	—		
38	(1.68) .066	(49.07) 1.932	(45.72) 1.800	(16.64) .655	(16.76) .660	—		
40	(1.68) .066	(51.61) 2.032	(48.26) 1.900	(16.64) .655	(16.76) .660	—		
42	(1.68) .066	(54.15) 2.132	(50.80) 2.000	(16.64) .655	(16.76) .660	—		
44	(1.68) .066	(56.69) 2.232	(53.34) 2.100	(19.05) .750	(16.76) .660	—		
46	(1.68) .066	(59.23) 2.332	(55.88) 2.200	(19.05) .750	(16.76) .660	—		
48	(1.68) .066	(61.77) 2.432	(58.42) 2.300	(19.05) .750	(16.76) .660	—		
50	(1.68) .066	(64.31) 2.532	(60.96) 2.400	(19.05) .750	(16.76) .660	—		
52	(1.68) .066	(66.85) 2.632	(63.50) 2.500	(19.05) .750	(16.76) .660	—		
54	(1.68) .066	(69.39) 2.732	(66.04) 2.600	(21.59) .850	(21.84) .860	—		
56	(1.68) .066	(71.93) 2.832	(68.58) 2.700	(21.59) .850	(21.84) .860	—		
58	(1.68) .066	(74.47) 2.932	(71.12) 2.800	(27.81) 1.095	(26.92) 1.060	—		
60	(1.68) .066	(77.01) 3.032	(73.66) 2.900	(27.81) 1.095	(26.92) 1.060	—		
62	(1.68) .066	(79.55) 3.132	(76.20) 3.000	(27.81) 1.095	(26.92) 1.060	—		
64	(1.68) .066	(82.09) 3.232	(78.74) 3.100	(27.81) 1.095	(26.92) 1.060	—		
66	(1.68) .066	(84.63) 3.332	(81.28) 3.200	(27.81) 1.095	(26.92) 1.060	—		
68	(1.68) .066	(87.17) 3.432	(83.82) 3.300	(27.81) 1.095	(26.92) 1.060	—		
70	(1.68) .066	(89.71) 3.532	(86.36) 3.400	(27.81) 1.095	(26.92) 1.060	—		
72	(1.68) .066	(92.25) 3.632	(88.90) 3.500	(27.81) 1.095	(26.92) 1.060	—		

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: REMOVED OBSOLETE PART NUMBERS AS PER PCN#515931				<div>molex</div>	
MM/IN		4:1							
GENERAL TOLERANCES (UNLESS SPECIFIED)				SALES ASSEMBLY WAFER-RIGHT ANGLE FULLY SHROUNDED .100 GRID					
		MM	INCH						
4 PLACES	±		±						
3 PLACES	±		± 0.01						
2 PLACES	±	0.25	± 0.014						
1 PLACE	±	0.36	±						
0 PLACES	±		±						
ANGULAR TOL				± 0.5 °		PRODUCT CUSTOMER DRAWING			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION					
						D-SIZE		74162	
				</					

molex

SALES ASSEMBLY
WAFER-RIGHT ANGLE FULLY SHROUDED
.100 GRID

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-74162-001	PSD	001	C1

DOCUMENT STATUS	P1	RELEASE DATE	2025/03/03	16:52:26
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VERSION A (1.68/.066 END CIRCUITS TO INSIDE END WALLS)

ITEM NUMBER 74162	P REF	PLATING FINISH	CONNECTOR END PLATING				PC BOARD END PLATING			INFORMATION PK-70873
			TYPE	J LENGTH		R 0.38 ± .015	TYPE	L LENGTH		
-0006-0072	3.30 .130	TIN	TIN	_____		8.00 .315	TIN	_____		0019
-0106-0172	5.08 .200	TIN	TIN	_____		8.00 .315	TIN	_____		0019
-0206-0272	3.30 .130	15 GOLD	GOLD	5.08 .200		8.00 .315	TIN	2.54 .100		0019
-0306-0372	5.08 .200	15 GOLD	GOLD	5.08 .200		8.00 .315	TIN	2.54 .100		0019
-0406-0472	3.30 .130	30 GOLD	GOLD	5.08 .200		8.00 .315	TIN	2.54 .100		0019
-0506-0572	5.08 .200	30 GOLD	GOLD	5.08 .200		8.00 .315	TIN	2.54 .100		0019
-0606-0672	3.30 .130	TIN	TIN	_____		6.35 .250	TIN	_____		0019

NO. OF CKTS	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER
6	74162-0006	74162-0106	74162-0206	74162-0306	74162-0406	74162-0506	74162-0606
8	74162-0008	74162-0108	74162-0208	74162-0308	74162-0408	74162-0508	74162-0608
10	74162-0010	74162-0110	74162-0210	74162-0310	74162-0410	74162-0510	74162-0610
12	74162-0012	74162-0112	74162-0212	74162-0312	74162-0412	74162-0512	74162-0612
14	74162-0014	74162-0114	74162-0214	74162-0314	74162-0414	74162-0514	74162-0614
16	74162-0016	74162-0116	74162-0216	74162-0316	74162-0416	74162-0516	74162-0616
18	74162-0018	74162-0118	74162-0218	74162-0318	74162-0418	74162-0518	74162-0618
20	74162-0020	74162-0120	74162-0220	74162-0320	74162-0420	74162-0520	74162-0620
22	74162-0022	74162-0122	74162-0222	74162-0322	74162-0422	74162-0522	74162-0622
24	74162-0024	74162-0124	74162-0224	74162-0324	74162-0424	74162-0524	74162-0624
26	74162-0026	74162-0126	74162-0226	74162-0326	74162-0426	74162-0526	74162-0626
28	74162-0028	74162-0128	74162-0228	74162-0328	74162-0428	74162-0528	74162-0628
30	74162-0030	74162-0130	74162-0230	74162-0330	74162-0430	74162-0530	74162-0630
32	74162-0032	74162-0132	74162-0232	74162-0332	74162-0432	74162-0532	74162-0632
34	74162-0034	74162-0134	74162-0234	74162-0334	74162-0434	74162-0534	74162-0634
36	74162-0036	74162-0136	74162-0236	74162-0336	74162-0436	74162-0536	74162-0636
38	74162-0038	74162-0138	74162-0238	74162-0338	74162-0438	74162-0538	74162-0638
40	74162-0040	74162-0140	74162-0240	74162-0340	74162-0440	74162-0540	74162-0640
42	74162-0042	74162-0142	74162-0242	74162-0342	74162-0442	74162-0542	74162-0642
44	74162-0044	74162-0144	74162-0244	74162-0344	74162-0444	74162-0544	74162-0644
46	74162-0046	74162-0146	74162-0246	74162-0346	74162-0446	74162-0546	74162-0646
48	74162-0048	74162-0148	74162-0248	74162-0348	74162-0448	74162-0548	74162-0648
50	74162-0050	74162-0150	74162-0250	74162-0350	74162-0450	74162-0550	74162-0650
52	74162-0052	74162-0152	74162-0252	74162-0352	74162-0452	74162-0552	74162-0652
54	74162-0054	74162-0154	74162-0254	74162-0354	74162-0454	74162-0554	74162-0654
56	74162-0056	74162-0156	74162-0256	74162-0356	74162-0456	74162-0556	74162-0656
58	74162-0058	74162-0158	74162-0258	74162-0358	74162-0458	74162-0558	74162-0658
60	74162-0060	74162-0160	74162-0260	74162-0360	74162-0460	74162-0560	74162-0660
62	74162-0062	74162-0162	74162-0262	74162-0362	74162-0462	74162-0562	74162-0662
64	74162-0064	74162-0164	74162-0264	74162-0364	74162-0464	74162-0564	74162-0664
66	74162-0066	74162-0166	74162-0266	74162-0366	74162-0466	74162-0566	74162-0666
68	74162-0068	74162-0168	74162-0268	74162-0368	74162-0468	74162-0568	74162-0668
70	74162-0070	74162-0170	74162-0270	74162-0370	74162-0470	74162-0570	74162-0670
72	74162-0072	74162-0172	74162-0272	74162-0372	74162-0472	74162-0572	74162-0672

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

1:1

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

D-SIZE

74162

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

EC NO: 812933

DRWN: MADHAM5

CHK'D: GGA

APPR: GGA

2025/02/12

2025/03/03

2025/03/03

INITIAL REVISION:

DRWN: SMILLER

APPR: SMILLER

2009/03/27

2009/03/27

SALES ASSEMBLY
WAFER-RIGHT ANGLE FULLY
.100 GRID

SHROUNDED

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

DOC TYPE

DOC PART

REVISION

SD-74162-001

PSD

001

C1

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

SEE TABLE

GENERAL MARKET

2 OF 8

DOCUMENT STATUS

P1

RELEASE DATE

2025/03/03

16:52:26

[illegible]

VERSION B (3.81/.150 END CIRCUITS TO INSIDE END WALLS)

RECOMMENDED P.C. BOARD HOLE LAYOUT

SECTION J-J

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
3. PRODUCT SPECIFICATION: PS-74162-0001
4. PACKAGING INFORMATION: SEE CHARTS
5. FOR CHARTED DIMENSIONS AND ASSEMBLY NO.S NOT SHOWN ON THIS SHEET - SEE SHEET 4.
6. WINDOW NOT AVAILABLE ON 6 CKT.
7. 20 CIRCUIT SIZE SHOWN FOR ILLUSTRATION PURPOSES.
8. PIN PUSHOUT FORCE: (17.79 N)/4 LBS.
9. PINS MUST MEET SOLDERABILITY SPEC. MIL-STD-202 METHOD 208B.
10. ROW TO ROW PIN HEIGHT VARIATION MUST NOT EXCEED (0.25)/.010 IN.
11. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

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: REMOVED OBSOLETE PART NUMBERS AS PER PCN#515931					
MM/IN		4:1							
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 812933 DRWN: MADHAM5 CHK'D: GGA APPR: GGA INITIAL REVISION: DRWN: SMILLER APPR: SMILLER THIRD ANGLE PROJECTION DRAWING SERIES D-SIZE 74162					
		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									

VERSION B (3.81/.150 END CIRCUITS TO INSIDE END WALLS)

RECOMMENDED P.C. BOARD HOLE LAYOUT

SECTION J-J

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
3. PRODUCT SPECIFICATION: PS-74162-0001
4. PACKAGING INFORMATION: SEE CHARTS
5. FOR CHARTED DIMENSIONS AND ASSEMBLY NO.S NOT SHOWN ON THIS SHEET - SEE SHEET 4.
6. WINDOW NOT AVAILABLE ON 6 CKT.
7. 20 CIRCUIT SIZE SHOWN FOR ILLUSTRATION PURPOSES.
8. PIN PUSHOUT FORCE: (17.79 N)/4 LBS.
9. PINS MUST MEET SOLDERABILITY SPEC. MIL-STD-202 METHOD 208B.
10. ROW TO ROW PIN HEIGHT VARIATION MUST NOT EXCEED (0.25)/.010 IN.
11. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

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: REMOVED OBSOLETE PART NUMBERS AS PER PCN#515931					
MM/IN		4:1							
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 812933 DRWN: MADHAM5 CHK'D: GGA APPR: GGA INITIAL REVISION: DRWN: SMILLER APPR: SMILLER THIRD ANGLE PROJECTION DRAWING SERIES D-SIZE 74162					
		MM	INCH						
4 PLACES	±		±						
3 PLACES	±		± 0.01						
2 PLACES	±	0.25	± 0.014						
1 PLACE	±	0.36	±						
0 PLACES	±		±						
ANGULAR TOL		±	0.5 °	2009/03/27 2009/03/27					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS									

VERISION B (3.81/.150 END CIRCUITS TO INSIDE END WALLS)

ITEM NUMBER 74162	P REF	PLATING FINISH	CONNECTOR END PLATING				PC BOARD END PLATING			INFORMATION PK-70873
			TYPE	J LENGTH			TYPE	L LENGTH		
-1006-1072	3.30 .130	TIN	TIN	_____			TIN	_____		0019
-1106-1172	5.08 .200	TIN	TIN	_____			TIN	_____		0019
-1206-1272	3.30 .130	15 GOLD	GOLD	5.08 .200			TIN	2.54 .100		0019
-1306-1372	5.08 .200	15 GOLD	GOLD	5.08 .200			TIN	2.54 .100		0019
-1406-1472	3.30 .130	30 GOLD	GOLD	5.08 .200			TIN	2.54 .100		0019
-1506-1572	5.08 .200	30 GOLD	GOLD	5.08 .200			TIN	2.54 .100		0019
	_____			_____				_____		

NO. OF CKTS	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER
6	74162-1006	74162-1106	74162-1206	74162-1306	74162-1406	74162-1506	
8	74162-1008	74162-1108	74162-1208	- - -	74162-1408	74162-1508	
10	74162-1010	74162-1110	74162-1210	74162-1310	74162-1410	74162-1510	
12	74162-1012	74162-1112	74162-1212	74162-1312	74162-1412	74162-1512	
14	74162-1014	74162-1114	74162-1214	74162-1314	74162-1414	74162-1514	
16	74162-1016	74162-1116	74162-1216	74162-1316	74162-1416	74162-1516	
18	74162-1018	74162-1118	74162-1218	74162-1318	74162-1418	74162-1518	
20	74162-1020	74162-1120	74162-1220	74162-1320	74162-1420	74162-1520	
22	74162-1022	74162-1122	74162-1222	74162-1322	74162-1422	74162-1522	
24	74162-1024	74162-1124	74162-1224	74162-1324	74162-1424	74162-1524	
26	74162-1026	74162-1126	74162-1226	74162-1326	74162-1426	74162-1526	
28	74162-1028	74162-1128	74162-1228	74162-1328	74162-1428	74162-1528	
30	74162-1030	74162-1130	74162-1230	74162-1330	74162-1430	74162-1530	
32	74162-1032	74162-1132	74162-1232	74162-1332	- - -	- - -	
34	74162-1034	74162-1134	74162-1234	74162-1334	74162-1434	74162-1534	
36	74162-1036	74162-1136	74162-1236	74162-1336	74162-1436	74162-1536	
38	74162-1038	74162-1138	74162-1238	74162-1338	74162-1438	74162-1538	
40	74162-1040	74162-1140	74162-1240	74162-1340	74162-1440	74162-1540	
42	74162-1042	74162-1142	74162-1242	74162-1342	74162-1442	74162-1542	
44	74162-1044	74162-1144	74162-1244	74162-1344	74162-1444	74162-1544	
46	74162-1046	74162-1146	74162-1246	74162-1346	74162-1446	74162-1546	
48	- - -	74162-1148	74162-1248	74162-1348	74162-1448	74162-1548	
50	74162-1050	74162-1150	74162-1250	74162-1350	74162-1450	74162-1550	
52	74162-1052	74162-1152	74162-1252	74162-1352	74162-1452	74162-1552	
54	74162-1054	74162-1154	74162-1254	74162-1354	74162-1454	74162-1554	
56	74162-1056	74162-1156	74162-1256	74162-1356	74162-1456	74162-1556	
58	74162-1058	74162-1158	74162-1258	74162-1358	74162-1458	74162-1558	
60	74162-1060	74162-1160	74162-1260	74162-1360	74162-1460	74162-1560	
62	74162-1062	74162-1162	74162-1262	74162-1362	74162-1462	74162-1562	
64	74162-1064	74162-1164	74162-1264	74162-1364	74162-1464	74162-1564	
66	74162-1066	74162-1166	74162-1266	74162-1366	74162-1466	74162-1566	
68	74162-1068	74162-1168	74162-1268	74162-1368	74162-1468	74162-1568	
70	74162-1070	74162-1170	74162-1270	74162-1370	74162-1470	74162-1570	
72	74162-1072	74162-1172	74162-1272	74162-1372	74162-1472	74162-1572	

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

1:1

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

THIRD ANGLE PROJECTION

DRAWING

D-SIZE

SERIES

74162

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

EC NO: 812933

DRWN: MADHAM5

CHK'D: GGA

APPR: GGA

2025/02/12

2025/03/03

2025/03/03

INITIAL REVISION:

DRWN: SMILLER

APPR: SMILLER

2009/03/27

2009/03/27

SALES ASSEMBLY
WAFER-RIGHT ANGLE FULLY
.100 GRID

SHROUNDED

PRODUCT CUSTOMER DRAWING

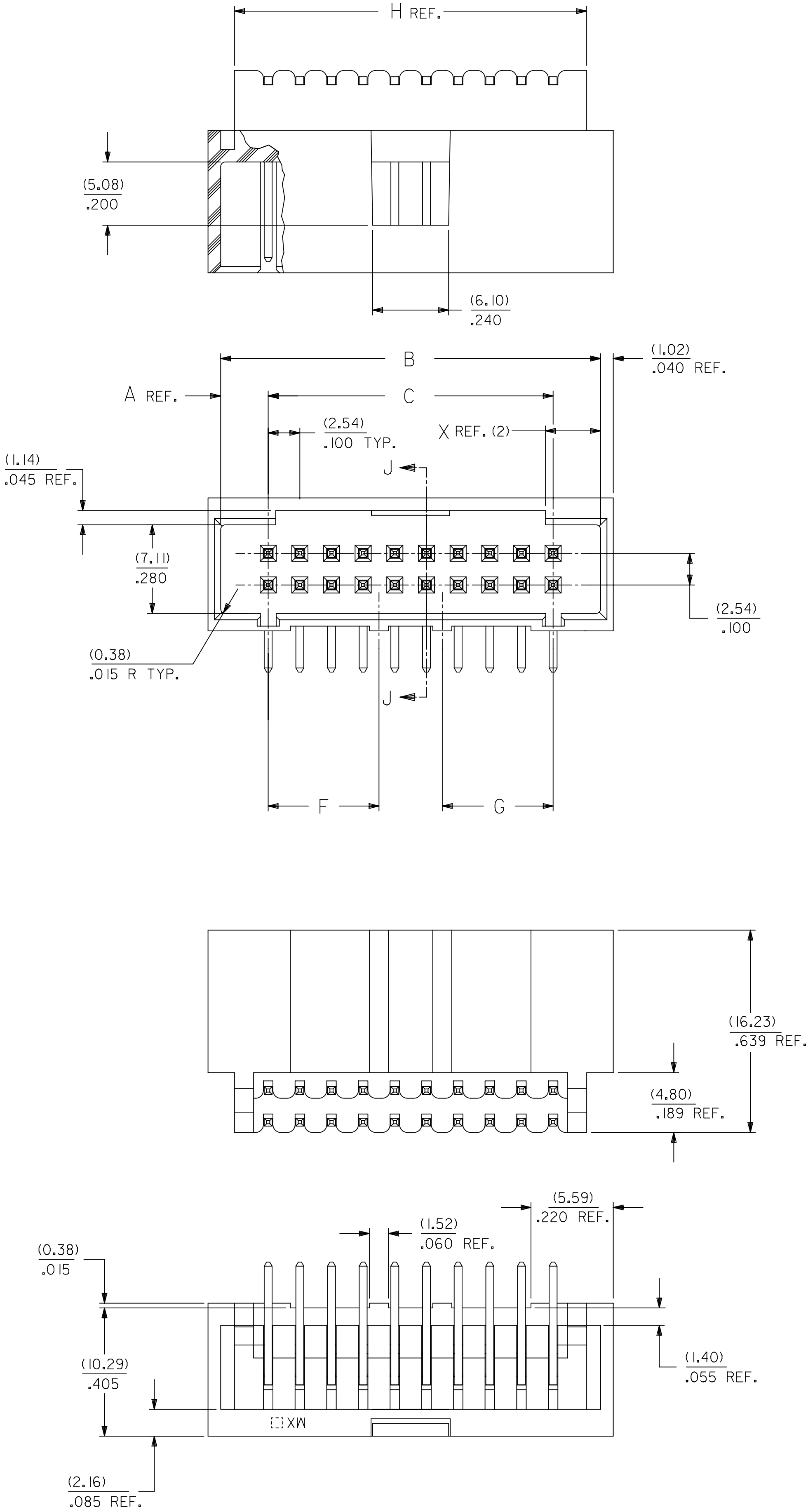
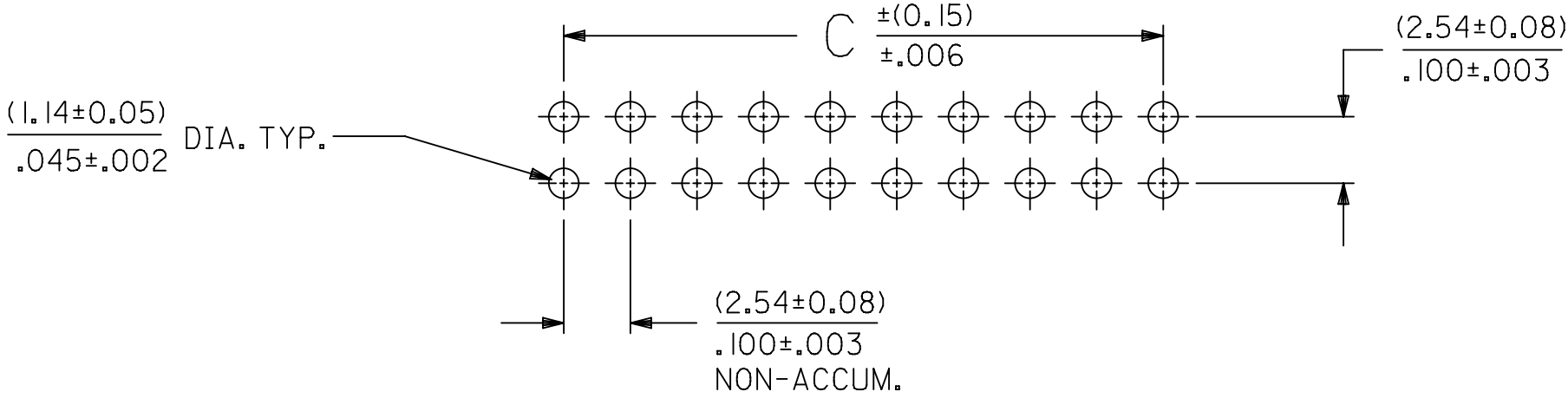
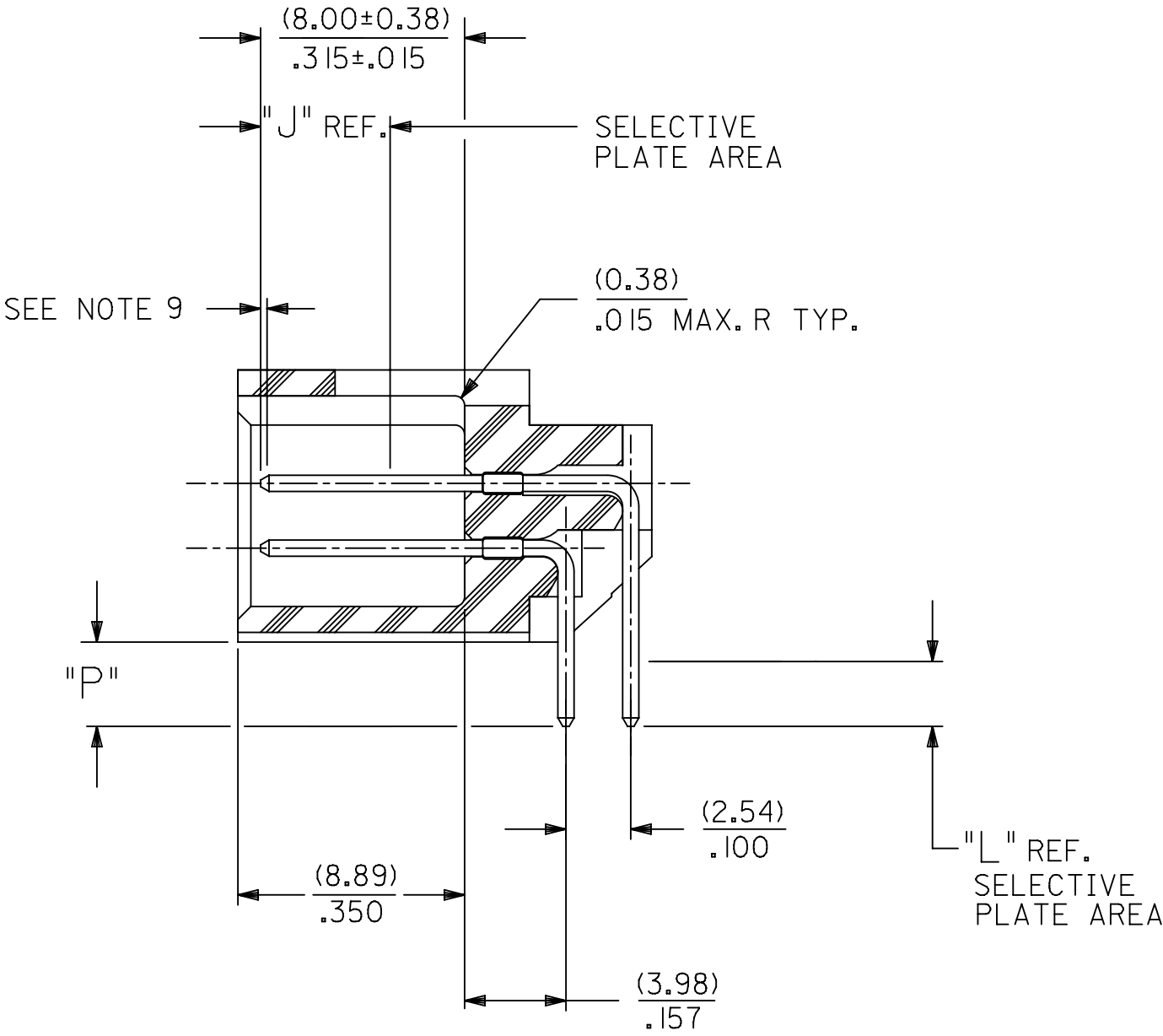
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-74162-001	PSD	001	C1

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE	GENERAL MARKET	4 OF 8

DOCUMENT STATUS	P1	RELEASE DATE	2025/03/03	16:52:26
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19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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VERSION C WITH POLARIZATION SLOTS
(3.81/.150 END CIRCUITS TO INSIDE END WALLS)



- NOTES
- MATERIAL: SHROUDED WAFER: GLASS FILLED, LIQUID CRYSTAL POLYMER, COLOR: BLACK; UL94V-0
PINS: COPPER ALLOY
 - 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
 - PRODUCT SPECIFICATION: PS-74162-0001
 - PACKAGING INFORMATION: SEE CHARTS
 - FOR CHARTED DIMENSIONS AND ASSEMBLY NO.S NOT SHOWN ON THIS SHEET - SEE SHEET 6.
 - 20 CIRCUIT SIZE SHOWN FOR ILLUSTRATION PURPOSES.
 - PIN PUSHOUT FORCE: (17.79 N)/4 LBS MINIMUM.
 - PINS MUST MEET SOLDERABILITY SPEC. MIL-STD-202 METHOD 208B.
 - ROW TO ROW HEIGHT VARIATION MUST NOT EXCEED (0.25)/.010 IN.
 - THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

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: REMOVED OBSOLETE PART NUMBERS AS PER PCN#515931				<div>molex</div>		
MM/IN		4:1								
GENERAL TOLERANCES (UNLESS SPECIFIED)								SALES ASSEMBLY		
								WAFER-RIGHT ANGLE FULLY SHROUDED		
						.100 GRID				
				PRODUCT CUSTOMER DRAWING						
4 PLACES		±	MM	±	INCH	DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
3 PLACES		±		±	0.01	SD-74162-001		PSD	001	C1
2 PLACES		±	0.25	±	0.014	INITIAL REVISION:				
1 PLACE		±	0.36	±						
0 PLACES		±		±						
ANGULAR TOL				±	0.5 °	DRAWN: SMILLER		2009/03/27		
						APPR: SMILLER		2009/03/27		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
						D-SIZE	74162	SEE TABLE	GENERAL MARKET	5 OF 8

CKT.	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "F"	DIM. "G"	DIM. "H"	DIM. "X"	
06	(3.81) .150	(12.70) .500	(5.08) .200	—	—	(10.46) .412	(3.30) .130	—
08	(3.81) .150	(15.24) .600	(7.62) .300	—	—	(13.00) .512	(3.30) .130	—
10	(3.81) .150	(17.78) .700	(10.16) .400	—	—	(15.54) .612	(4.42) .174	—
12	(3.81) .150	(20.32) .800	(12.70) .500	—	—	(18.08) .712	(4.42) .174	—
14	(3.81) .150	(22.86) .900	(15.24) .600	—	—	(20.62) .812	(4.42) .174	—
16	(3.81) .150	(25.40) 1.000	(17.78) .700	—	—	(23.16) .912	(4.42) .174	—
18	(3.81) .150	(27.94) 1.100	(20.32) .800	—	—	(25.70) 1.012	(4.42) .174	—
20	(3.81) .150	(30.48) 1.200	(22.86) .900	—	—	(28.24) 1.112	(4.42) .174	—
22	(3.81) .150	(33.02) 1.300	(25.40) 1.000	—	—	(30.78) 1.212	(4.42) .174	—
24	(3.81) .150	(35.56) 1.400	(27.94) 1.100	(16.64) .655	—	(33.32) 1.312	(4.42) .174	—
26	(3.81) .150	(38.10) 1.500	(30.48) 1.200	(16.64) .655	—	(35.86) 1.412	(4.42) .174	—
28	(3.81) .150	(40.64) 1.600	(33.02) 1.300	(16.64) .655	—	(38.40) 1.512	(4.42) .174	—
30	(3.81) .150	(43.18) 1.700	(35.56) 1.400	(16.64) .655	—	(40.94) 1.612	(4.42) .174	—
32	(3.81) .150	(45.72) 1.800	(38.10) 1.500	(16.64) .655	—	(43.48) 1.712	(4.42) .174	—
34	(3.81) .150	(48.26) 1.900	(40.64) 1.600	(16.64) .655	(16.76) .660	(46.02) 1.812	(4.42) .174	—
36	(3.81) .150	(50.80) 2.000	(43.18) 1.700	(16.64) .655	(16.76) .660	(48.56) 1.912	(4.42) .174	—
38	(3.81) .150	(53.34) 2.100	(45.72) 1.800	(16.64) .655	(16.76) .660	(51.10) 2.012	(4.42) .174	—
40	(3.81) .150	(55.88) 2.200	(48.26) 1.900	(16.64) .655	(16.76) .660	(53.64) 2.112	(4.42) .174	—
42	(3.81) .150	(58.42) 2.300	(50.80) 2.000	(16.64) .655	(16.76) .660	(56.18) 2.212	(4.42) .174	—
44	(3.81) .150	(60.96) 2.400	(53.34) 2.100	(19.05) .750	(16.76) .660	(58.72) 2.312	(4.42) .174	—
46	(3.81) .150	(63.50) 2.500	(55.88) 2.200	(19.05) .750	(16.76) .660	(61.26) 2.412	(4.42) .174	—
48	(3.81) .150	(66.04) 2.600	(58.42) 2.300	(19.05) .750	(16.76) .660	(63.80) 2.512	(4.42) .174	—
50	(3.81) .150	(68.58) 2.700	(60.96) 2.400	(19.05) .750	(16.76) .660	(66.34) 2.612	(4.42) .174	—
52	(3.81) .150	(71.12) 2.800	(63.50) 2.500	(19.05) .750	(16.76) .660	(68.88) 2.712	(4.42) .174	—
54	(3.81) .150	(73.66) 2.900	(66.04) 2.600	(21.59) .850	(21.84) .860	(71.42) 2.812	(4.42) .174	—
56	(3.81) .150	(76.20) 3.000	(68.58) 2.700	(21.59) .850	(21.84) .860	(73.96) 2.912	(4.42) .174	—
58	(3.81) .150	(78.74) 3.100	(71.12) 2.800	(27.81) 1.095	(26.92) 1.060	(76.50) 3.012	(4.42) .174	—
60	(3.81) .150	(81.28) 3.200	(73.66) 2.900	(27.81) 1.095	(26.92) 1.060	(79.04) 3.112	(4.42) .174	—
62	(3.81) .150	(83.82) 3.300	(76.20) 3.000	(27.81) 1.095	(26.92) 1.060	(81.58) 3.212	(4.42) .174	—
64	(3.81) .150	(86.36) 3.400	(78.74) 3.100	(27.81) 1.095	(26.92) 1.060	(84.12) 3.312	(4.42) .174	—
66	(3.81) .150	(88.90) 3.500	(81.28) 3.200	(27.81) 1.095	(26.92) 1.060	(86.66) 3.412	(4.42) .174	—
68	(3.81) .150	(91.44) 3.600	(83.82) 3.300	(27.81) 1.095	(26.92) 1.060	(89.20) 3.512	(4.42) .174	—
70	(3.81) .150	(93.98) 3.700	(86.36) 3.400	(27.81) 1.095	(26.92) 1.060	(91.74) 3.612	(4.42) .174	—
72	(3.81) .150	(96.52) 3.800	(88.90) 3.500	(27.81) 1.095	(26.92) 1.060	(94.28) 3.712	(4.42) .174	—

VERSION C WITH POLARIZATION SLOTS
(3.81/.150 END CIRCUITS TO INSIDE END WALLS)

ITEM NUMBER 74162	P REF	PLATING FINISH	CONNECTOR END PLATING				PC BOARD END PLATING			INFORMATION PK-70873
			TYPE	J LENGTH			TYPE	L LENGTH	M MEAS.	
-2006-2072	<u>3.30</u> .130	TIN	TIN	_____			TIN	_____		0019
-2106-2172	<u>5.08</u> .200	TIN	TIN	_____			TIN	_____		0019
-2206-2272	<u>3.30</u> .130	15 GOLD	GOLD	<u>5.08</u> .200			TIN	<u>2.54</u> .100		0019
-2306-2372	<u>5.08</u> .200	15 GOLD	GOLD	<u>5.08</u> .200			TIN	<u>2.54</u> .100		0019
-2406-2472	<u>3.30</u> .130	30 GOLD	GOLD	<u>5.08</u> .200			TIN	<u>2.54</u> .100		0019
-2506-2572	<u>5.08</u> .200	30 GOLD	GOLD	<u>5.08</u> .200			TIN	<u>2.54</u> .100		0019
	_____			_____				_____		

NO. OF CKTS	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER
6	74162-2006	74162-2106	74162-2206	74162-2306	74162-2406	74162-2506	
8	74162-2008	74162-2108	74162-2208	74162-2308	74162-2408	74162-2508	
10	74162-2010	74162-2110	74162-2210	74162-2310	74162-2410	74162-2510	
12	74162-2012	74162-2112	74162-2212	74162-2312	74162-2412	74162-2512	
14	74162-2014	74162-2114	74162-2214	74162-2314	74162-2414	74162-2514	
16	74162-2016	74162-2116	74162-2216	74162-2316	74162-2416	74162-2516	
18	74162-2018	74162-2118	74162-2218	74162-2318	74162-2418	74162-2518	
20	74162-2020	74162-2120	74162-2220	74162-2320	74162-2420	74162-2520	
22	74162-2022	74162-2122	74162-2222	74162-2322	74162-2422	74162-2522	
24	74162-2024	74162-2124	74162-2224	74162-2324	74162-2424	74162-2524	
26	74162-2026	74162-2126	74162-2226	74162-2326	74162-2426	74162-2526	
28	74162-2028	74162-2128	74162-2228	74162-2328	74162-2428	74162-2528	
30	74162-2030	74162-2130	74162-2230	74162-2330	74162-2430	74162-2530	
32	74162-2032	74162-2132	74162-2232	74162-2332	74162-2432	74162-2532	
34	74162-2034	74162-2134	74162-2234	74162-2334	74162-2434	74162-2534	
36	74162-2036	74162-2136	74162-2236	74162-2336	74162-2436	74162-2536	
38	74162-2038	74162-2138	74162-2238	74162-2338	74162-2438	74162-2538	
40	74162-2040	74162-2140	74162-2240	74162-2340	74162-2440	74162-2540	
42	74162-2042	74162-2142	74162-2242	74162-2342	74162-2442	74162-2542	
44	74162-2044	74162-2144	74162-2244	74162-2344	74162-2444	74162-2544	
46	74162-2046	74162-2146	74162-2246	74162-2346	74162-2446	74162-2546	
48	74162-2048	74162-2148	74162-2248	74162-2348	74162-2448	74162-2548	
50	74162-2050	74162-2150	74162-2250	74162-2350	74162-2450	74162-2550	
52	74162-2052	74162-2152	74162-2252	74162-2352	74162-2452	74162-2552	
54	74162-2054	74162-2154	74162-2254	74162-2354	74162-2454	74162-2554	
56	74162-2056	74162-2156	74162-2256	74162-2356	74162-2456	74162-2556	
58	74162-2058	74162-2158	74162-2258	74162-2358	74162-2458	74162-2558	
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62	74162-2062	74162-2162	74162-2262	74162-2362	74162-2462	74162-2562	
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70	74162-2070	74162-2170	74162-2270	74162-2370	74162-2470	74162-2570	
72	74162-2072	74162-2172	74162-2272	74162-2372	74162-2472	74162-2572	

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

1:1

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



DRAWING

D-SIZE

SERIES

74162

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

EC NO: 812933

DRWN: MADHAM5

CHK'D: GGA

APPR: GGA

2025/02/12

2025/03/03

2025/03/03

INITIAL REVISION:

DRWN: SMILLER

APPR: SMILLER

2009/03/27

2009/03/27

SALES ASSEMBLY
WAFER-RIGHT ANGLE FULLY
.100 GRID

SHROUNDED

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

SD-74162-001

DOC TYPE

PSD

DOC PART

001

REVISION

C1

MATERIAL NUMBER

SEE TABLE

CUSTOMER

GENERAL MARKET

SHEET NUMBER

6 OF 8

DOCUMENT STATUS

P1

RELEASE DATE

2025/03/03

16:52:26

19

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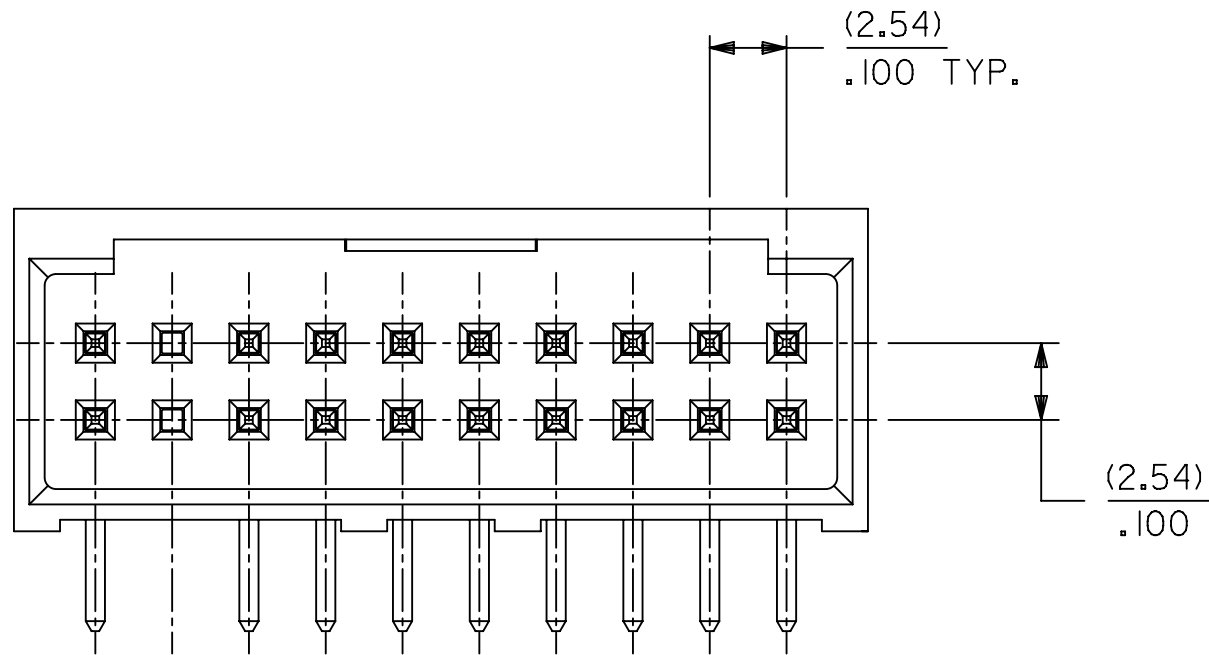
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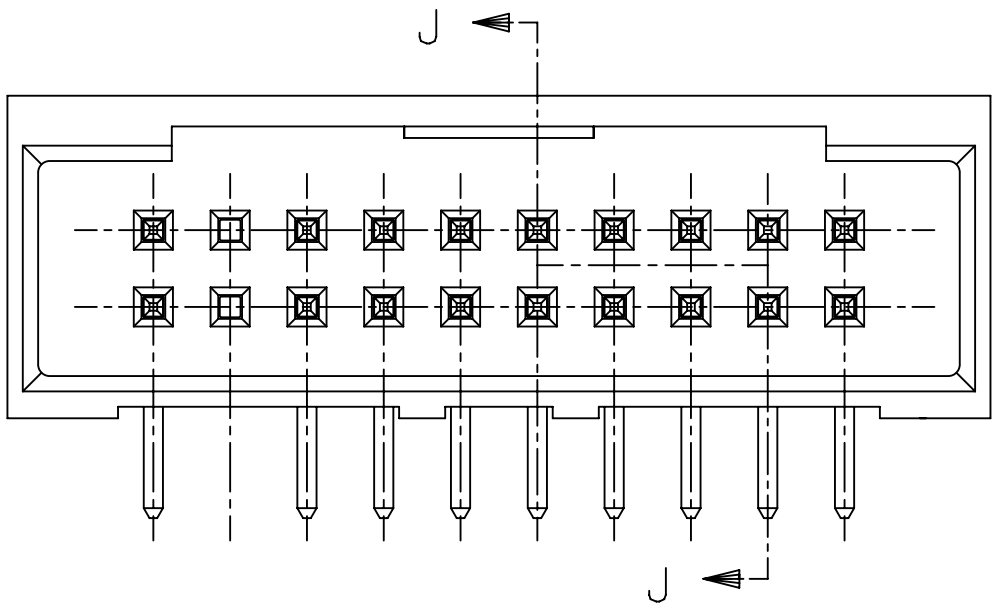
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VERSION A, B, OR C WITH VOID(S)

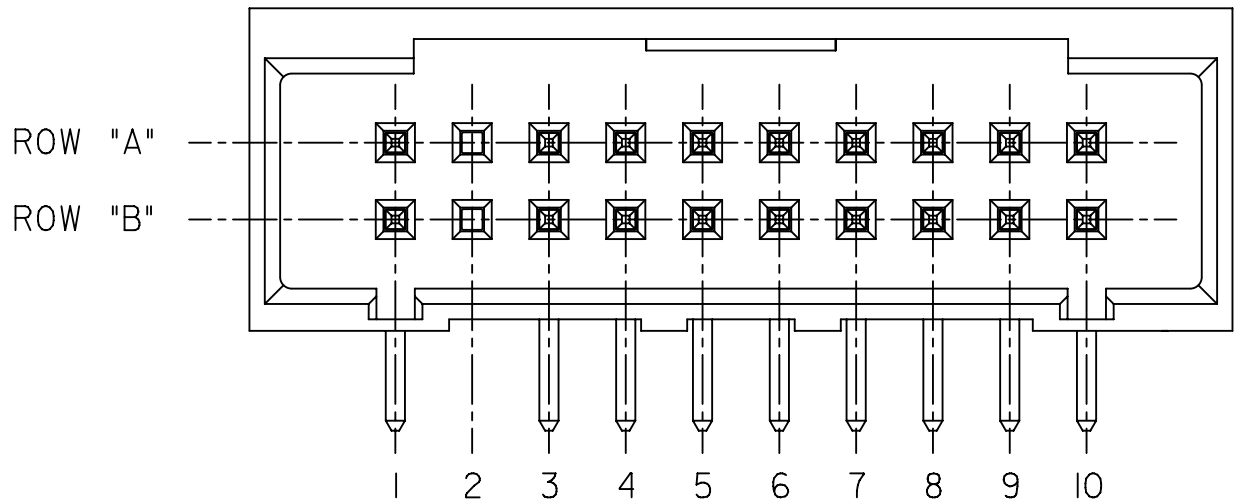
VERSION A



VERSION B

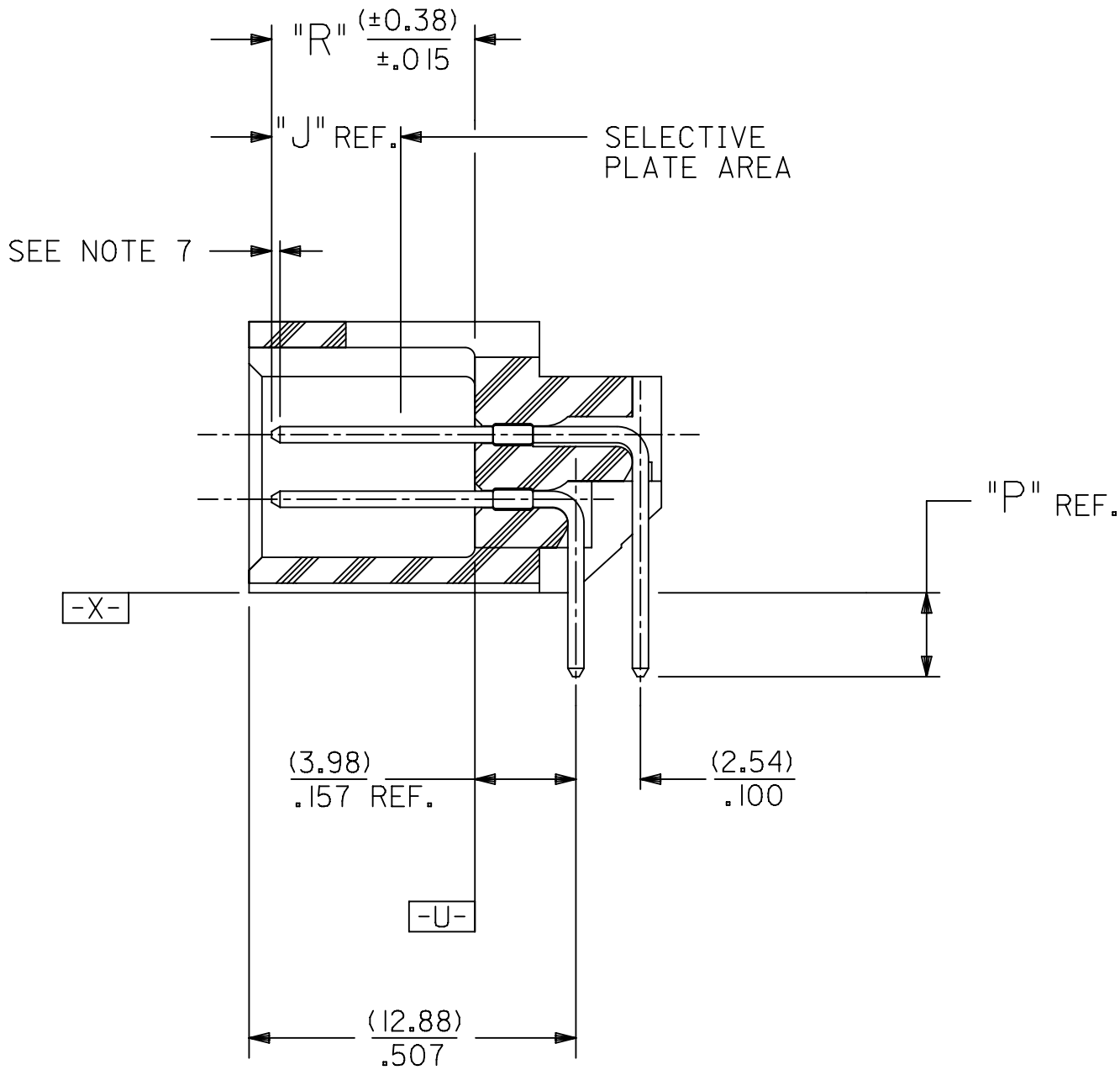


VERSION C



USE FOR LOCATING VOIDED PINS ON ALL STYLES

LETTERS AND NUMBERS ARE NOT DESIGNATED ON WAFER HOUSING
(SEE NOTE 10 AND CHART ON SHEET 8)



SECTION J-J

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
3. PRODUCT SPECIFICATION: PS-74162-0001
4. PACKAGING INFORMATION: SEE CHARTS
5. PINS MUST MEET SOLDERABILITY SPEC. MIL-STD-202 METHOD 208B.
6. PIN PUSHOUT FORCE: (17.79 N)/4 LBS MINIMUM.
7. ROW TO ROW PIN HEIGHT VARIATION MUST NOT EXCEED (0.25)/.010 IN.
8. 20 CIRCUIT SIZE WITH PINS VOIDED IN LOCATIONS
A-2 AND B-2 SHOWN FOR ILLUSTRATION PURPOSES.
9. FOR VARIABLE DIMENSIONS, CIRCUIT SIZE, WAFER STYLE
AND ASSEMBLY NUMBER - SEE SHEET 8.
10. FOR VOIDED PIN LOCATIONS SEE STYLE "C" AND CHART ON SHEET 8.
11. FOR DIMENSIONS NOT SHOWN, FIRST: DETERMINE THE SHROUDED WAFER STYLE
FROM CHART ON SHEET 8; SECOND: USING WAFER STYLE, LOCATE THE CORRESPONDING
SHEET WITH NON-VOIDED ASSEMBLIES AND DIMENSIONS
FOR ALL CIRCUIT SIZES.
12. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC
SPECIFICATION PS-45499-002.

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: REMOVED OBSOLETE PART NUMBERS AS PER PCN#515931				<div>molex</div>				
MM/IN		4:1										
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 812933 DRWN: MADHAM5 CHK'D: GGA APPR: GGA				SALES ASSEMBLY WAFER-RIGHT ANGLE FULLY SHROUNDED .100 GRID				
		MM	INCH									
4 PLACES		±		INITIAL REVISION: DRWN: SMILLER APPR: SMILLER				DOCUMENT NUMBER SD-74162-001		DOC TYPE PSD	DOC PART 001	REVISION C1
3 PLACES		±	0.01									
2 PLACES		±	0.25	2025/02/12 2025/03/03 2025/03/03				PRODUCT CUSTOMER DRAWING				
1 PLACE		±	0.36									
0 PLACES		±		2009/03/27 2009/03/27				SD-74162-001 PSD 001 C1				
ANGULAR TOL		±	0.5 °									
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER		CUSTOMER		SHEET NUMBER
						D-SIZE	74162	SEE TABLE		GENERAL MARKET		7 OF 8

VERSION A, B, OR C WITH VOID(S)

ITEM NUMBER 74162	SHROUDED WAFER STYLE SEE SHEET 7	CKT SIZE		R ± <div><div>0.38</div><div>.015</div></div>	P REF	PLATING FINISH	CONNECTOR END PLATING				PC BOARD END PLATING			VOIDED PIN LOCATION(S) (SEE NOTE 8 ON SHEET 7)		INFORMATION PK-70873
							TYPE	J LENGTH			TYPE	L LENGTH		ROW	POSITION	
74162-3001	B	14		<div><div>8.00</div><div>.315</div></div>	<div><div>3.30</div><div>.130</div></div>	TIN	TIN	<div><div>5.08</div><div>.200</div></div>			TIN	<div><div>2.54</div><div>.100</div></div>		A	1	0019
74162-3002	A	16		<div><div>8.00</div><div>.315</div></div>	<div><div>5.08</div><div>.200</div></div>	TIN	TIN	<div><div>5.08</div><div>.200</div></div>			TIN	<div><div>2.54</div><div>.100</div></div>		A	8	0019
74612-3003	A	30		<div><div>8.00</div><div>.315</div></div>	<div><div>3.30</div><div>.130</div></div>	15 GOLD	GOLD	<div><div>5.08</div><div>.200</div></div>			TIN	<div><div>2.54</div><div>.100</div></div>		A	4	0019
X	X			<div><div>8.00</div><div>.315</div></div>	<div><div>5.08</div><div>.200</div></div>	15 GOLD	GOLD				TIN					
X	X			<div><div>8.00</div><div>.315</div></div>	<div><div>3.30</div><div>.130</div></div>	30 GOLD	GOLD				TIN					
X	X			<div><div>8.00</div><div>.315</div></div>	<div><div>5.08</div><div>.200</div></div>	30 GOLD	GOLD				TIN					
X	X			<div><div>6.35</div><div>.250</div></div>	<div><div>3.30</div><div>.130</div></div>	TIN	TIN				TIN					

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

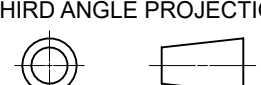
1:1

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

THIRD ANGLE PROJECTION



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

EC NO: 812933

DRWN: MADHAM5

CHK'D: GGA

APPR: GGA

2025/02/12

2025/03/03

2025/03/03

INITIAL REVISION:

DRWN: SMILLER

APPR: SMILLER

2009/03/27

2009/03/27

SALES ASSEMBLY
WAFER-RIGHT ANGLE FULLY
.100 GRID

SHROUNDED

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

SD-74162-001

DOC TYPE

PSD

DOC PART

001

REVISION

C1

MATERIAL NUMBER

SEE TABLE

CUSTOMER

GENERAL MARKET

SHEET NUMBER

8 OF 8

DOCUMENT STATUS

P1

RELEASE DATE

2025/03/03

16:52:26

19

18

17

16

15

14

13

12

11

10

9

8

7

6

5

4

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