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Part Number: [0741621230](#)
Status: **Active**
Overview: [cgrid_sl_products](#)
Description: 2.54mm (.100") Pitch C-Grid® Receptacle, Right Angle, Through Hole, Dual Row, Shrouded, Version B, High-Temperature, 30 Circuits, 0.4µm (15µ") Gold (Au)

Documents:

3D Model	Product Specification PS-74162-001 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification

UL	E29179
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General

Product Family	PCB Receptacles
Series	74162
Application	Board-to-Board
Overview	cgrid_sl_products
Product Name	C-Grid®

Physical

Circuits (Loaded)	30
Circuits (maximum)	30
Color - Resin	Black
Durability (mating cycles max)	50
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	Yes
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Performance Thermoplastic
Number of Rows	2
Orientation	Right Angle
PCB Locator	No
PCB Retention	None
Packaging Type	Tube
Pitch - Mating Interface (in)	0.100 In
Pitch - Mating Interface (mm)	2.54 mm
Pitch - Term. Interface (in)	0.100 In
Pitch - Term. Interface (mm)	2.54 mm
Plating min: Mating (µin)	0.4
Plating min: Mating (µm)	15
Polarized to Mating Part	No
Polarized to PCB	No
Robotic Placement	None
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	2.5A
Grounding to PCB	No



image - Reference only

Series

EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
Contains SVHC: No
Halogen-Free
Status

Not Reviewed

China RoHS



**Need more information on product
environmental compliance?**

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of
Compliance, [click here](#)

Please visit the [Contact Us](#) section for any
non-product compliance questions.

Search Parts in this Series
[74162Series](#)

Voltage - Maximum	250V
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Solder Process Data

Duration at Max. Process Temperature (seconds)	5
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

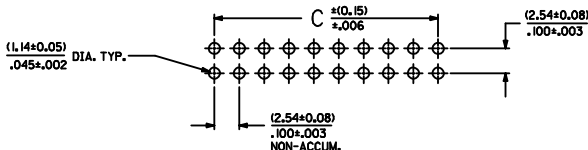
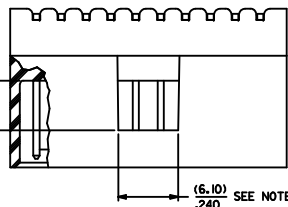
Material Info

Reference - Drawing Numbers

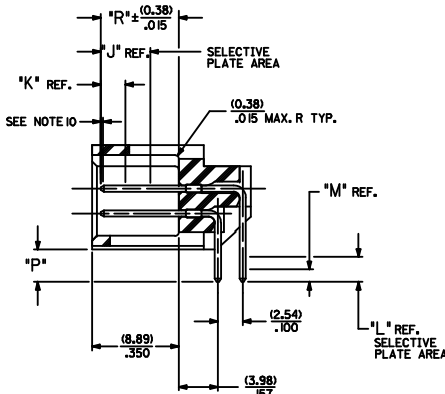
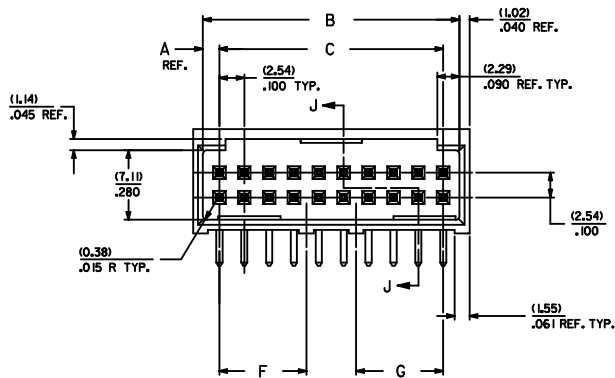
Packaging Specification	PK-70873-0019
Product Specification	PS-74162-001
Sales Drawing	SD-74162-001

This document was generated on 05/31/2010

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RECOMMENDED P.C. BOARD HOLE LAYOUT



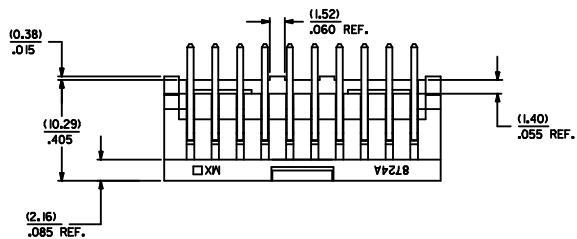
SECTION J-J

NOTES

1. MATERIAL: SHROUDED WAFER: GLASS FILLED, LIQUID CRYSTAL POLYMER, COLOR: BLACK, UL94V-0
PINS: PHOSPHOR BRONZE
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. WINDOW NOT AVAILABLE ON 6 CKT.
6. FOR CHARTED DIMENSIONS AND ASSEMBLY N.O.S NOT SHOWN ON THIS SHEET - SEE SHEET 2.
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)/0.10 IN.
11. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

CKT.	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	DIM. "E"	DIM. "F"	DIM. "G"
06	(1.68) .066	(8.43) .332	(5.08) .200	(1.68) .066			
08	(1.68) .066	(10.97) .432	(7.62) .300	(1.68) .066			
10	(1.68) .066	(13.51) .532	(10.16) .400	(4.22) .166			
12	(1.68) .066	(16.05) .632	(12.70) .500	(4.22) .166			
14	(1.68) .066	(18.59) .732	(15.24) .600	(6.76) .266			
16	(1.68) .066	(21.13) .832	(17.78) .700	(6.76) .266			
18	(1.68) .066	(23.67) .932	(20.32) .800	(9.30) .366			
20	(1.68) .066	(26.21) 1.032	(22.86) .900	(11.84) .466			
22	(1.68) .066	(28.75) 1.132	(25.40) 1.000	(14.38) .566			
24	(1.68) .066	(31.29) 1.232	(27.94) 1.100	(16.92) .666			
26	(1.68) .066	(33.83) 1.332	(30.48) 1.200	(19.46) .766			
28	(1.68) .066	(36.37) 1.432	(33.02) 1.300	(22.00) .866			
30	(1.68) .066	(38.91) 1.532	(35.56) 1.400	(24.54) .966			
32	(1.68) .066	(41.45) 1.632	(38.10) 1.500	(27.08) 1.066			
34	(1.68) .066	(43.99) 1.732	(40.64) 1.600	(29.62) 1.166			
36	(1.68) .066	(46.53) 1.832	(43.18) 1.700	(32.16) 1.266			
38	(1.68) .066	(49.07) 1.932	(45.72) 1.800	(34.70) 1.366			
40	(1.68) .066	(51.61) 2.032	(48.26) 1.900	(37.24) 1.466			
42	(1.68) .066	(54.15) 2.132	(50.80) 2.000	(39.78) 1.566			
44	(1.68) .066	(56.69) 2.232	(53.34) 2.100	(42.32) 1.666			
46	(1.68) .066	(59.23) 2.332	(55.88) 2.200	(44.86) 1.766			
48	(1.68) .066	(61.77) 2.432	(58.42) 2.300	(47.40) 1.866			
50	(1.68) .066	(64.31) 2.532	(60.96) 2.400	(49.94) 1.966			
52	(1.68) .066	(66.85) 2.632	(63.50) 2.500	(52.48) 2.066			
54	(1.68) .066	(69.39) 2.732	(66.04) 2.600	(55.02) 2.166			
56	(1.68) .066	(71.93) 2.832	(68.58) 2.700	(57.56) 2.266			
58	(1.68) .066	(74.47) 2.932	(71.12) 2.800	(60.10) 2.366			
60	(1.68) .066	(77.01) 3.032	(73.66) 2.900	(62.64) 2.466			
62	(1.68) .066	(79.55) 3.132	(76.20) 3.000	(65.18) 2.566			
64	(1.68) .066	(82.09) 3.232	(78.74) 3.100	(67.72) 2.666			
66	(1.68) .066	(84.63) 3.332	(81.28) 3.200	(70.26) 2.766			
68	(1.68) .066	(87.17) 3.432	(83.82) 3.300	(72.80) 2.866			
70	(1.68) .066	(89.71) 3.532	(86.36) 3.400	(75.34) 2.966			
72	(1.68) .066	(92.25) 3.632	(88.90) 3.500	(77.88) 3.066			

ASSEMBLY STYLES "A", "B", AND "G"



INITIAL RELEASE EC NO: UCP 2009-1776 DRAWN BY: CHKOBBARKER CHECKED BY: APPR: SMILLER DATE: 2009/03/27 DATE: 2009/04/20 DATE: 2009/04/21	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
					MM/IN			INCH			
					DRAWN BY DATE		TITLE				
					SMILLER 2009/03/27		SALES ASSEMBLY				
					CHECKED BY DATE		WAFER-RIGHT ANGLE FULLY				
A	REV		4 PLACES ±.005 ±.005		2009/03/27		SHROUDED .100 GRID				
			3 PLACES ±.010 ±.010		DATE		MOLEX MOLEX INCORPORATED				
			2 PLACES ±.025 ±.014		2009/03/27						
			1 PLACE ±.036 ±.014		APPROVED BY DATE						
			ANGULAR ± 1/2°		SMILLER 2009/03/27						
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO.		DOCUMENT NO.		SHEET NO.				
			SEE TABLE		SD-74162-001		1 OF 8				
			SIZE D		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
M																				M
L																				L
K																				K
J																				J
I																				I
H																				H
G																				G
F																				F
E																				E
D																				D
C																				C
B																				B
A																				A

ITEM NUMBER 74162	P REF	PLATING FINISH	CONNECTOR END PLATING				PC BOARD END PLATING			INFORMATION PK-70873
			TYPE	J LENGTH	K MEAS.	R + 0.38 .015	TYPE	L LENGTH	M MEAS.	
-0006-0072	3.30 .130	TIN	TIN	—	2.54 .100	8.00 .315	TIN	—	1.27 .050	0019
-0106-0172	5.08 .200	TIN	TIN	—	2.54 .100	8.00 .315	TIN	—	1.27 .050	0019
-0206-0272	3.30 .130	15 GOLD	GOLD	5.08 .200	2.54 .100	8.00 .315	TIN	2.54 .100	1.27 .050	0019
-0306-0372	5.08 .200	15 GOLD	GOLD	5.08 .200	2.54 .100	8.00 .315	TIN	2.54 .100	1.27 .050	0019
-0406-0472	3.30 .130	30 GOLD	GOLD	5.08 .200	2.54 .100	8.00 .315	TIN	2.54 .100	1.27 .050	0019
-0506-0572	5.08 .200	30 GOLD	GOLD	5.08 .200	2.54 .100	8.00 .315	TIN	2.54 .100	1.27 .050	0019
-0606-0672	3.30 .130	TIN	TIN	—	2.54 .100	6.35 .250	TIN	—	1.27 .050	0019

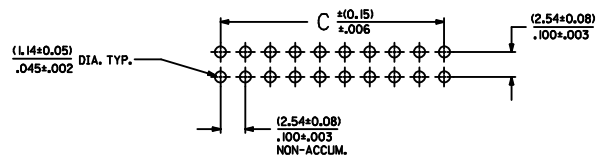
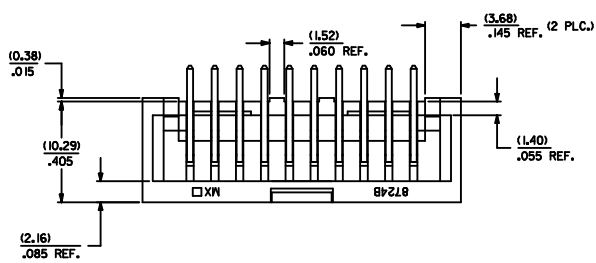
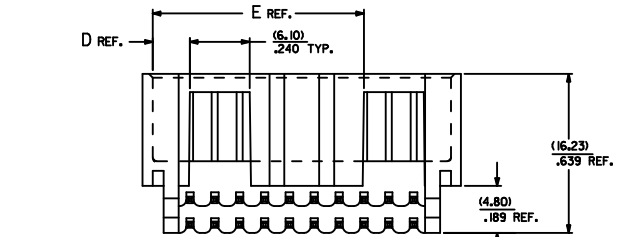
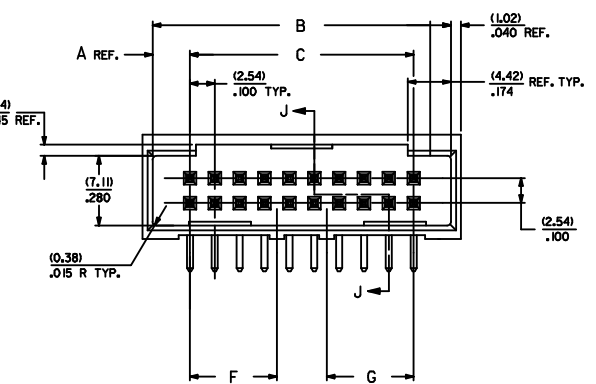
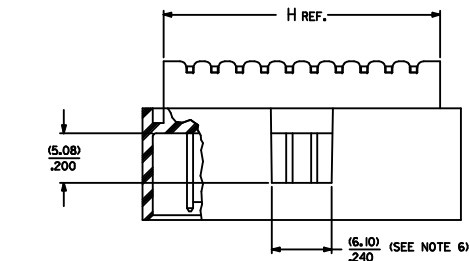
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8	74162-0008	74162-0108	74162-0208	74162-0308	74162-0408	74162-0508	74162-0608	
10	74162-0010	74162-0110	74162-0210	74162-0310	74162-0410	74162-0510	74162-0610	
12	74162-0012	74162-0112	74162-0212	74162-0312	74162-0412	74162-0512	74162-0612	
14	74162-0014	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	
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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	

INITIAL RELEASE EC NO. UCP2009-1776 DRAWN BY BARRA 2009/03/27 CHKD BY BARKER 2009/04/20 APPR. BY MILLER 2009/04/21	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE	DESIGN UNITS INCH	THIRD ANGLE PROJECTION
		mm	INCH	DRAWN BY SMILLER	DATE 2009/03/27	TITLE SALES ASSEMBLY WAFER-RIGHT ANGLE FULLY SHROUDED .100 GRID MOLEX INCORPORATED		
		4 PLACES ± ---	± ---	CHECKED BY BBARKER	DATE 2009/03/27			
		2 PLACES ± 0.25	± .014	APPROVED BY SMILLER	DATE 2009/03/27			
		1 PLACE ± 0.36	± ---	MATERIAL NO. SEE TABLE			DOCUMENT NO. SD-74162-001	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		ANGULAR ±1/2°		SHEET NO. 2 OF 8		A
SIZE D		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

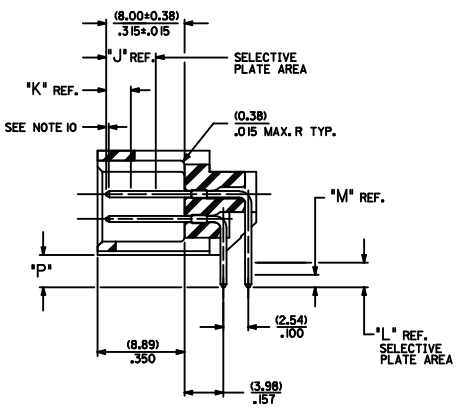
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Rev. E 2006/04/15

19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1



RECOMMENDED P.C. BOARD HOLE LAYOUT



SECTION J-J

- NOTES
1. MATERIAL: SHROUDED WAFER: GLASS FILLED, LIQUID CRYSTAL POLYMER, COLOR: BLACK, UL94V-0
PINS: PHOSPHOR BRONZE
 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
191 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
191 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 N.O.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)/0.10 IN.
 11. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

CKT.	DIM. 'A'	DIM. 'B'	DIM. 'C'	DIM. 'D'	DIM. 'E'	DIM. 'F'	DIM. 'G'	DIM. 'H'
06	(3.81) .150	(12.70) .500	(5.08) .200	(3.81) .150	---	---	---	(10.46) .412
08	(3.81) .150	(15.24) .600	(7.62) .300	(3.81) .150	---	---	---	(13.00) .512
10	(3.81) .150	(17.78) .700	(10.16) .400	(6.35) .250	---	---	---	(15.41) .612
12	(3.81) .150	(20.32) .800	(12.70) .500	(6.35) .250	---	---	---	(18.08) .712
14	(3.81) .150	(22.86) .900	(15.24) .600	(8.89) .350	---	---	---	(20.62) .812
16	(3.81) .150	(25.40) 1.000	(17.78) .700	(8.89) .350	---	---	---	(23.16) .912
18	(3.81) .150	(27.94) 1.100	(20.32) .800	(11.43) .450	---	---	---	(25.70) 1.012
20	(3.81) .150	(30.48) 1.200	(22.86) .900	(13.97) .550	---	---	---	(28.24) 1.112
22	(3.81) .150	(33.02) 1.300	(25.40) 1.000	(16.51) .650	---	---	---	(30.78) 1.212
24	(3.81) .150	(35.56) 1.400	(27.94) 1.100	(19.05) .750	(16.51) .650	---	---	(33.32) 1.312
26	(3.81) .150	(38.10) 1.500	(30.48) 1.200	(21.59) .850	(19.05) .750	---	---	(35.86) 1.412
28	(3.81) .150	(40.64) 1.600	(33.02) 1.300	(24.13) .950	(21.59) .850	---	---	(38.40) 1.512
30	(3.81) .150	(43.18) 1.700	(35.56) 1.400	(26.67) 1.050	(24.13) .950	---	---	(40.94) 1.612
32	(3.81) .150	(45.72) 1.800	(38.10) 1.500	(29.21) 1.150	(26.67) 1.050	---	---	(43.48) 1.712
34	(3.81) .150	(48.26) 1.900	(40.64) 1.600	(31.75) 1.250	(29.21) 1.150	---	---	(46.02) 1.812
36	(3.81) .150	(50.80) 2.000	(43.18) 1.700	(34.29) 1.350	(31.75) 1.250	---	---	(48.56) 1.912
38	(3.81) .150	(53.34) 2.100	(45.72) 1.800	(36.83) 1.450	(34.29) 1.350	---	---	(51.10) 2.012
40	(3.81) .150	(55.88) 2.200	(48.26) 1.900	(39.37) 1.550	(36.83) 1.450	---	---	(53.64) 2.112
42	(3.81) .150	(58.42) 2.300	(50.80) 2.000	(41.91) 1.650	(39.37) 1.550	---	---	(56.18) 2.212
44	(3.81) .150	(60.96) 2.400	(53.34) 2.100	(44.45) 1.750	(41.91) 1.650	---	---	(58.72) 2.312
46	(3.81) .150	(63.50) 2.500	(55.88) 2.200	(46.99) 1.850	(44.45) 1.750	---	---	(61.26) 2.412
48	(3.81) .150	(66.04) 2.600	(58.42) 2.300	(49.53) 1.950	(46.99) 1.850	---	---	(63.80) 2.512
50	(3.81) .150	(68.58) 2.700	(60.96) 2.400	(52.07) 2.050	(49.53) 1.950	---	---	(66.34) 2.612
52	(3.81) .150	(71.12) 2.800	(63.50) 2.500	(54.61) 2.150	(52.07) 2.050	---	---	(68.88) 2.712
54	(3.81) .150	(73.66) 2.900	(66.04) 2.600	(57.15) 2.250	(54.61) 2.150	---	---	(71.42) 2.812
56	(3.81) .150	(76.20) 3.000	(68.58) 2.700	(59.69) 2.350	(57.15) 2.250	---	---	(73.96) 2.912
58	(3.81) .150	(78.74) 3.100	(71.12) 2.800	(62.23) 2.450	(59.69) 2.350	---	---	(76.50) 3.012
60	(3.81) .150	(81.28) 3.200	(73.66) 2.900	(64.77) 2.550	(62.23) 2.450	---	---	(79.04) 3.112
62	(3.81) .150	(83.82) 3.300	(76.20) 3.000	(67.31) 2.650	(64.77) 2.550	---	---	(81.58) 3.212
64	(3.81) .150	(86.36) 3.400	(78.74) 3.100	(69.85) 2.750	(67.31) 2.650	---	---	(84.12) 3.312
66	(3.81) .150	(88.90) 3.500	(81.28) 3.200	(72.39) 2.850	(69.85) 2.750	---	---	(86.66) 3.412
68	(3.81) .150	(91.44) 3.600	(83.82) 3.300	(74.93) 2.950	(72.39) 2.850	---	---	(89.20) 3.512
70	(3.81) .150	(93.98) 3.700	(86.36) 3.400	(77.47) 3.050	(74.93) 2.950	---	---	(91.74) 3.612
72	(3.81) .150	(96.52) 3.800	(88.90) 3.500	(80.01) 3.150	(77.47) 3.050	---	---	(94.28) 3.712

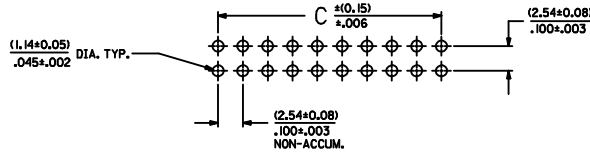
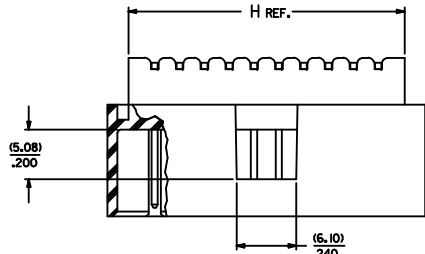
ASSEMBLY STYLES "C" & "D"

INITIAL RELEASE EC NO. UCF2009-1776 DRAWN BY BARBARA CHYKO CHECKED BY BBARKER APPROVED BY SMILLER DATE 2009/03/27 DATE 2009/04/20 DATE 2009/04/21	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE	DESIGN UNITS INCH	THIRD ANGLE PROJECTION
		4 PLACES ± --- ± --- 3 PLACES ± --- ± .010 2 PLACES ± 0.25 ± .014 1 PLACE ± 0.36 ± --- ANGULAR ±1/2°		DRAWN BY SMILLER DATE 2009/03/27		TITLE SALES ASSEMBLY WAFER-RIGHT ANGLE FULLY SHROUDED .100 GRID		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-74162-001		
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SHEET NO. 3 OF 8				

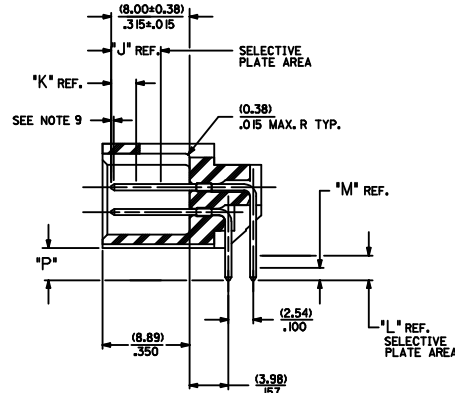
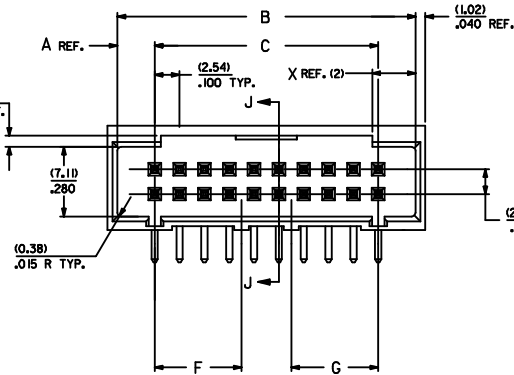
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8	74162-1008	74162-1108	74162-1208	74162-1308	74162-1408	74162-1508	
10	74162-1010	74162-1110	74162-1210	74162-1310	74162-1410	74162-1510	
12	74162-1012	74162-1112	74162-1212	74162-1312	74162-1412	74162-1512	
14	74162-1014	74162-1114	74162-1214	74162-1314	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	
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38	74162-1038	74162-1138	74162-1238	74162-1338	74162-1438	74162-1538	
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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	

1b_frame_0_P_AM_T Rev. E 2006/04/15	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

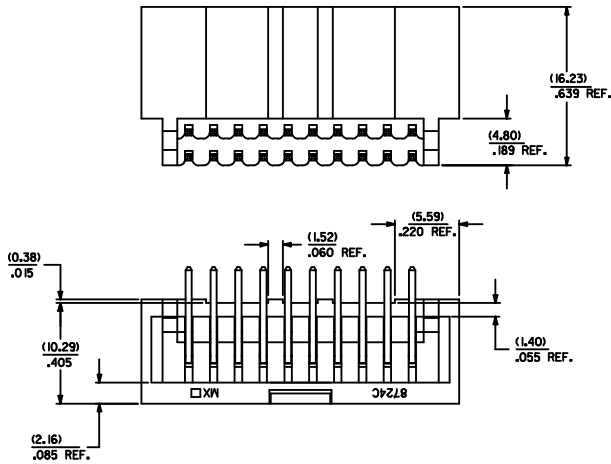


RECOMMENDED P.C. BOARD HOLE LAYOUT



SECTION J-J

- NOTES
1. MATERIAL: SHROUDED WAFER: GLASS FILLED, LIQUID CRYSTAL POLYMER, COLOR: BLACK, UL94V-0
PINS: PHOSPHOR BRONZE
 2. FINISH:
TIN - 3.81 MICROMETERS/150 MICRONS MINIMUM TIN PLATE
OVER NICKEL UNDERPLATE OVERALL
15 GOLD - 0.38 MICROMETERS/15 MICRONS MINIMUM GOLD PLATE IN SELECT AREA
1.91 MICROMETERS/75 MICRONS MINIMUM TIN PLATE IN SELECT AREA
OVER NICKEL UNDERPLATE OVERALL
30 GOLD - 0.76 MICROMETERS/30 MICRONS MINIMUM GOLD PLATE IN SELECT AREA
1.91 MICROMETERS/75 MICRONS 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 N.O.S NOT SHOWN ON THIS SHEET - SEE SHEET 6.
 6. 20 CIRCUIT SIZE SHOWN FOR ILLUSTRATION PURPOSES.
 7. PIN PUSHOUT FORCE: (17.79 N)/4 LBS.
 8. PINS MUST MEET SOLDERABILITY SPEC. MIL-STD-202 METHOD 208B.
 9. ROW TO ROW PIN HEIGHT VARIATION MUST NOT EXCEED (0.25)/0.10 IN.
 10. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.



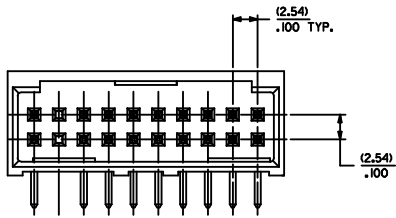
CKT.	DIM. 'A'	DIM. 'B'	DIM. 'C'	DIM. 'F'	DIM. 'G'	DIM. 'H'	DIM. 'X'
06	(3.81) .150	(12.70) .500	(5.08) .200			(10.46) .412	(3.30) .130
08	(3.81) .150	(15.24) .600	(7.62) .300			(13.00) .512	(3.30) .130
10	(3.81) .150	(17.78) .700	(10.16) .400			(15.54) .612	(4.42) .174
12	(3.81) .150	(20.32) .800	(12.70) .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	(26.32) 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	(26.32) 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	(26.32) 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	(26.32) 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	(26.32) 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	(26.32) 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	(26.32) 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	(26.32) 1.060	(94.28) 3.712	(4.42) .174

INITIAL RELEASE EC NO: UCP2009-1776 DRAWN BY: CHYD BARKER CHECKED BY: SMILLER APPROVED BY: SMILLER DATE: 2009/03/27 DATE: 2009/04/20 DATE: 2009/04/21	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE	DESIGN UNITS INCH	THIRD ANGLE PROJECTION	
		mm INCH		DRAWN BY DATE SMILLER 2009/03/27		TITLE SALES ASSEMBLY WAFER-RIGHT ANGLE FULLY SHROUDED .100 GRID			
		4 PLACES ± --- ± --- 3 PLACES ± --- ± .010 2 PLACES ± 0.25 ± .014 1 PLACE ± 0.36 ± --- ANGULAR ± 1/2°		DATE 2009/03/27		MOLEX INCORPORATED			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-74162-001		SHEET NO. 5 OF 8	

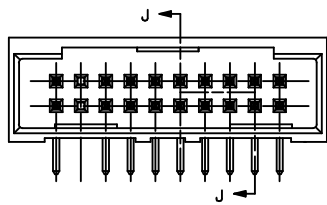
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10	74162-2010	74162-2110	74162-2210	74162-2310	74162-2410	74162-2510	
12	74162-2012	74162-2112	74162-2212	74162-2312	74162-2412	74162-2512	
14	74162-2014	74162-2114	74162-2214	74162-2314	74162-2414	74162-2514	
16	74162-2016	74162-2116	74162-2216	74162-2316	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	
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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	
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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	
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62	74162-2062	74162-2162	74162-2262	74162-2362	74162-2462	74162-2562	
64	74162-2064	74162-2164	74162-2264	74162-2364	74162-2464	74162-2564	
66	74162-2066	74162-2166	74162-2266	74162-2366	74162-2466	74162-2566	
68	74162-2068	74162-2168	74162-2268	74162-2368	74162-2468	74162-2568	
70	74162-2070	74162-2170	74162-2270	74162-2370	74162-2470	74162-2570	
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Rev. E 2006/04/15

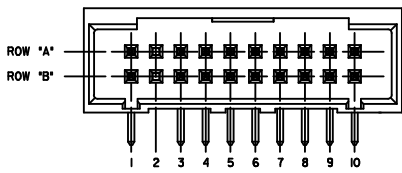
STYLE "A"



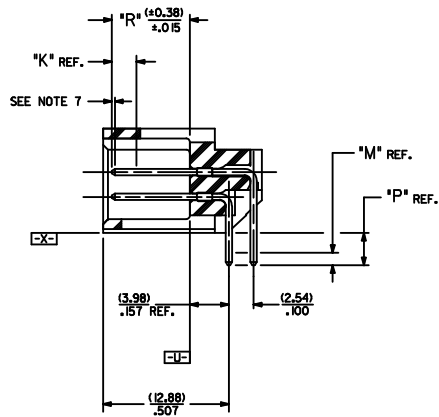
STYLE "B"



STYLE "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: PHOSPHOR BRONZE
 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.
 7. ROW TO ROW PIN HEIGHT VARIATION MUST NOT EXCEED (0.25)/0.10 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.

INITIAL RELEASE EC NO: UCP2009-1776 DRYNSI BARRA 2009/03/27 CHYKBBARKER 2009/04/20 APPR:SMILLER 2009/04/21 REV	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE	DESIGN UNITS INCH	THIRD ANGLE PROJECTION	

