

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0741621048

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, 48 Circuits, Tin (Sn)

Documents:

3D Model

Drawing (PDF)

Product Specification PS-74162-001 (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

UL

E29179

General

Product Family

Series

Application

Overview

Product Name

PCB Receptacles

74162

Board-to-Board

cgrid_sl_products

C-Grid®

Physical

Circuits (Loaded)

Circuits (maximum)

Color - Resin

Durability (mating cycles max)

Flammability

Glow-Wire Compliant

Guide to Mating Part

Keying to Mating Part

Lock to Mating Part

Material - Metal

Material - Plating Mating

Material - Plating Termination

Material - Resin

Number of Rows

Orientation

PCB Locator

PCB Retention

Packaging Type

Pitch - Mating Interface (in)

Pitch - Mating Interface (mm)

Pitch - Term. Interface (in)

Pitch - Term. Interface (mm)

Polarized to Mating Part

Polarized to PCB

Robotic Placement

Stackable

Surface Mount Compatible (SMC)

Temperature Range - Operating

Termination Interface: Style

48

48

Black

25

94V-0

No

No

None

Yes

Phosphor Bronze

Tin

Tin

High Performance Thermoplastic

2

Right Angle

No

None

Tube

0.100 In

2.54 mm

0.100 In

2.54 mm

No

No

None

No

No

-40°C to +105°C

Through Hole

Electrical

Current - Maximum per Contact

Grounding to PCB

Voltage - Maximum

2.5A

No

250V

Solder Process Data



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

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

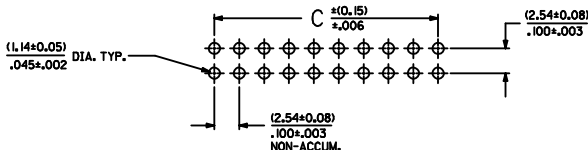
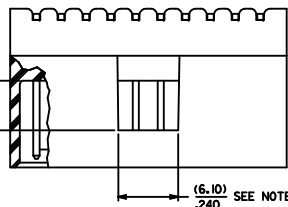
Material Info

Reference - Drawing Numbers

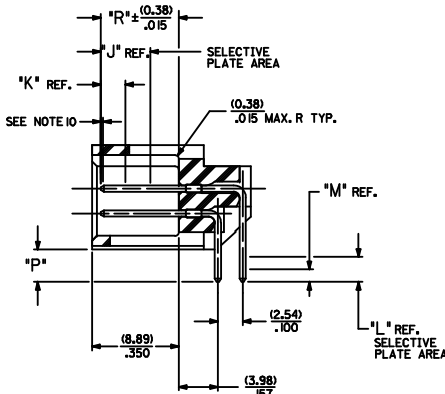
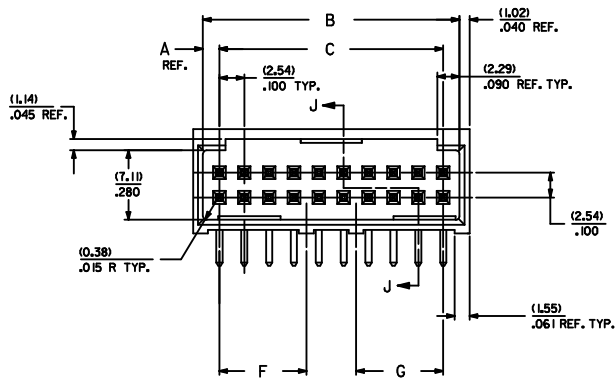
Packaging Specification	PK-70873-0019
Product Specification	PS-74162-001
Sales Drawing	SD-74162-001

This document was generated on 05/31/2010

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RECOMMENDED P.C. BOARD HOLE LAYOUT



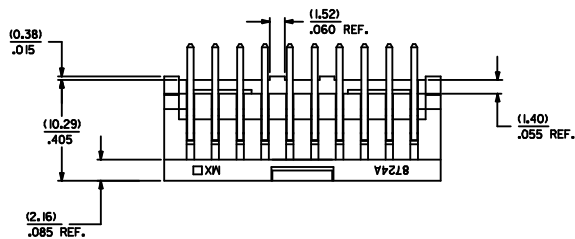
SECTION J-J

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.

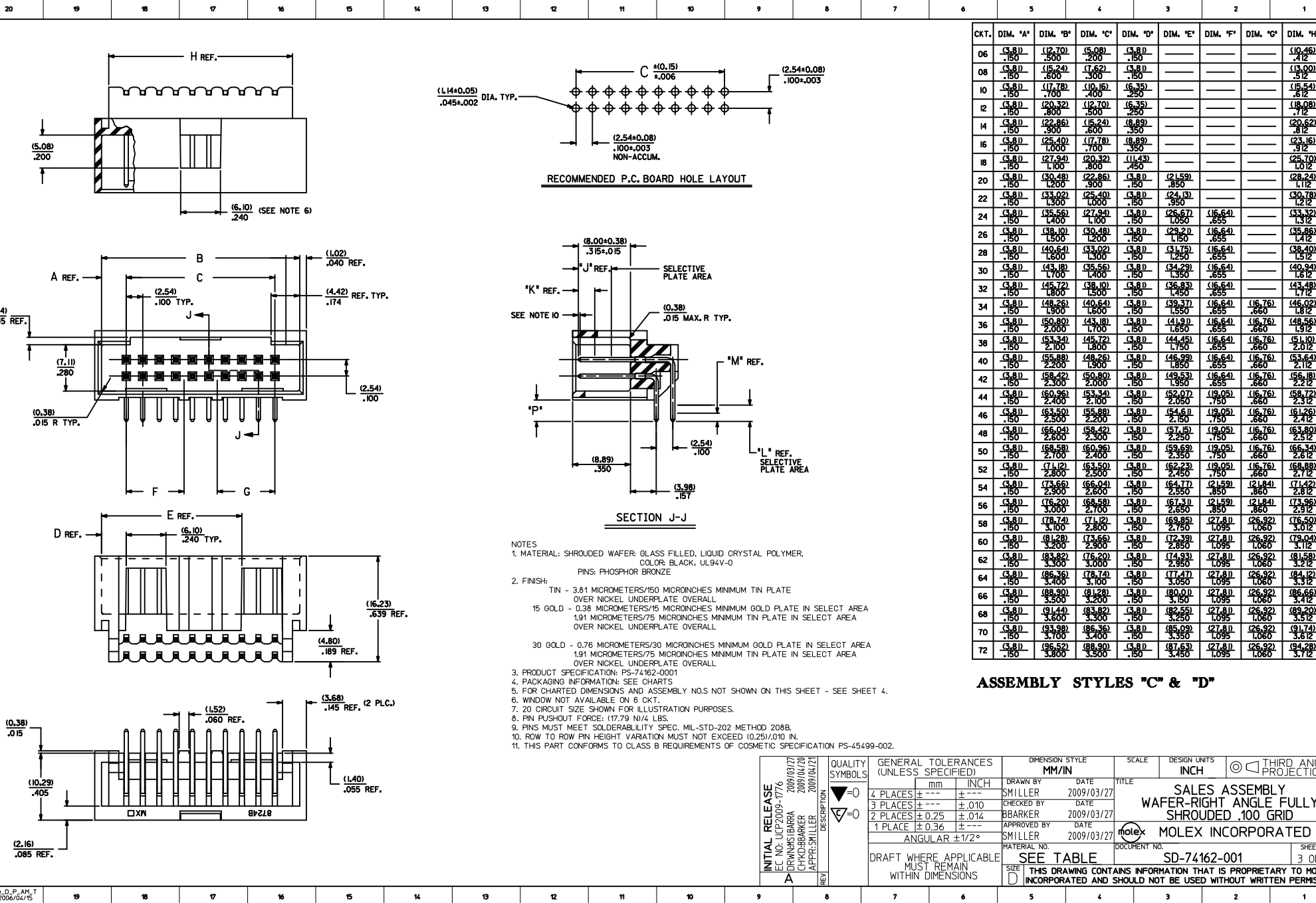
CKT.	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	DIM. "E"	DIM. "F"	DIM. "G"
06	(1.68) .066	(8.43) .332	(5.08) .200	(1.68) .066			
08	(1.68) .066	(10.97) .432	(7.62) .300	(1.68) .066			
10	(1.68) .066	(13.51) .532	(10.16) .400	(4.22) .166			
12	(1.68) .066	(16.05) .632	(12.70) .500	(4.22) .166			
14	(1.68) .066	(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"



QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
				MM/IN				INCH			
INITIAL RELEASE		DATE		DRAWN BY		DATE		TITLE			
EC NO. UCP 2009-1776		2009/03/27		SMILLER		2009/03/27		SALES ASSEMBLY			
DRAWN BY BARRA		2009/04/20		CHECKED BY		DATE		WAIVER-RIGHT ANGLE FULLY			
CHKD BY BARBER		2009/04/20		APPROVED BY		DATE		SHROUDED .100 GRID			
APPR. BY SMILLER		2009/04/21		SMILLER		2009/03/27		MOLEX INCORPORATED			
DESCRIPTION		MATERIAL NO.		DOCUMENT NO.		SHEET NO.					
		SD-74162-001		SEE TABLE		1 OF 8					
				DRAFT WHERE APPLICABLE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
				DRAFT WHERE APPLICABLE							
				MUST REMAIN WITHIN DIMENSIONS							

	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
Initial Release EC No. UCP2009-1776 DRAWN BY BARRA 2009/03/27 CHKD BY BARKER 2009/04/20 APPR: SMILLER 2009/04/21																					
QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)				DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION									
▽=0		mm INCH				MM/IN		INCH		INCH		INCH									
▽=0		4 PLACES ± --- ± ---				DRAWN BY		DATE		TITLE											
		3 PLACES ± --- ± .010				SMILLER		2009/03/27		SALES ASSEMBLY											
		2 PLACES ± 0.25 ± .014				CHECKED BY		DATE		WAFER-RIGHT ANGLE FULLY											
		1 PLACE ± 0.36 ± ---				BARKER		2009/03/27		SHROUDED .100 GRID											
		ANGULAR ±1/2°				APPROVED BY		DATE		MOLEX INCORPORATED											
						SMILLER		2009/03/27													
						MATERIAL NO.		DOCUMENT NO.		SD-74162-001											
						DRAFT WHERE APPLICABLE		SEE TABLE													
						MUST REMAIN WITHIN DIMENSIONS		SIZE		D											
								THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													



- 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. 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/A 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.

ASSEMBLY STYLES "C" & "D"

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	---	---	---	(15.54) .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

INITIAL RELEASE
EC NO. UCF2009-1776
DRAWN BY BARBARA CHYKO
CHECKED BY BARBARA CHYKO
APPROVED BY MILLER
DATE 2009/03/27
DATE 2009/04/20
DATE 2009/04/21

DESCRIPTION
REV

QUALITY SYMBOLS
▽=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)
mm INCH
4 PLACES ± --- ± ---
3 PLACES ± --- ± .010
2 PLACES ± 0.25 ± .014
1 PLACE ± 0.36 ± ---
ANGULAR ±1/2°

DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE
MM/IN

SCALE
INCH

DESIGN UNITS
INCH

THIRD ANGLE PROJECTION

DRAWN BY
MILLER
DATE
2009/03/27

CHECKED BY
BARBARA CHYKO
DATE
2009/03/27

APPROVED BY
MILLER
DATE
2009/03/27

TITLE
SALES ASSEMBLY
WAFER-RIGHT ANGLE FULLY
SHROUDED .100 GRID

MATERIAL NO.
SEE TABLE

DOCUMENT NO.
SD-74162-001

SHEET NO.
3 OF 8

20

19

18

17

16

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A

ITEM NUMBER 74162	P REF	PLATING FINISH	CONNECTOR END PLATING				PC BOARD END PLATING			INFORMATION PK-70873
			TYPE	J LENGTH	K MEAS.		TYPE	L LENGTH	M MEAS.	
-1006-1072	3.30 .130	TIN	TIN	—	2.54 .100		TIN	—	1.27 .050	0019
-1106-1172	5.08 .200	TIN	TIN	—	2.54 .100		TIN	—	1.27 .050	0019
-1206-1272	3.30 .130	15 GOLD	GOLD	5.08 .200	2.54 .100		TIN	2.54 .100	1.27 .050	0019
-1306-1372	5.08 .200	15 GOLD	GOLD	5.08 .200	2.54 .100		TIN	2.54 .100	1.27 .050	0019
-1406-1472	3.30 .130	30 GOLD	GOLD	5.08 .200	2.54 .100		TIN	2.54 .100	1.27 .050	0019
-1506-1572	5.08 .200	30 GOLD	GOLD	5.08 .200	2.54 .100		TIN	2.54 .100	1.27 .050	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	74162-1308	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	
30	74162-1030	74162-1130	74162-1230	74162-1330	74162-1430	74162-1530	
32	74162-1032	74162-1132	74162-1232	74162-1332	74162-1432	74162-1532	
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	
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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	
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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	

INITIAL RELEASE
EC NO. UCF2009-1776
DRAWN BY BARRA
CHKD BY BARKER
APPR. BY MILLER
2009/03/27
2009/04/20
2009/04/21

REV DESCRIPTION

QUALITY SYMBOLS
=0
=0

GENERAL TOLERANCES (UNLESS SPECIFIED)
mm INCH
4 PLACES ± --- ± ---
3 PLACES ± --- ± .010
2 PLACES ± 0.25 ± .014
1 PLACE ± 0.36 ± ---
ANGULAR ±1/2°
DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE
MM/IN

DRAWN BY DATE
MILLER 2009/03/27
CHECKED BY DATE
BARKER 2009/03/27
APPROVED BY DATE
MILLER 2009/03/27

SCALE
INCH

DESIGN UNITS
INCH

THIRD ANGLE PROJECTION

SALES ASSEMBLY
WAFER-RIGHT ANGLE FULLY
SHROUDED .100 GRID

MOLEX INCORPORATED

MATERIAL NO.
SEE TABLE

DOCUMENT NO.
SD-74162-001

SHEET NO.
4 OF 8

SIZE
D

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

10_frame_D_P_AM_T
Rev. E 2006/04/15

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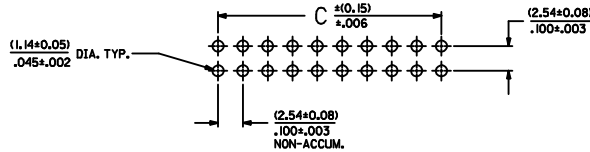
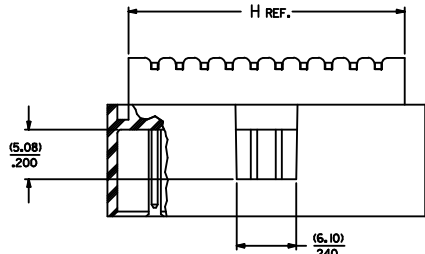
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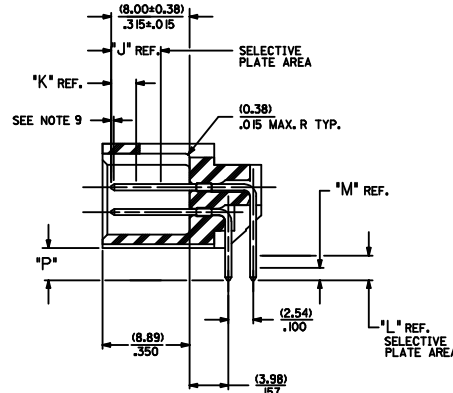
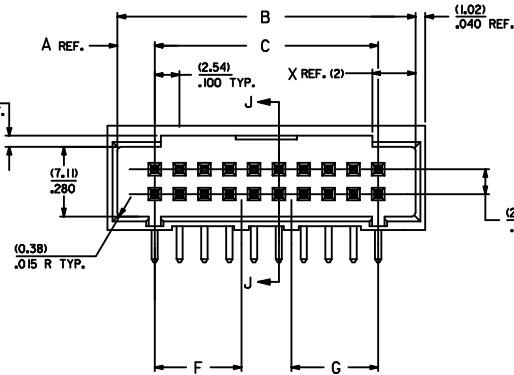
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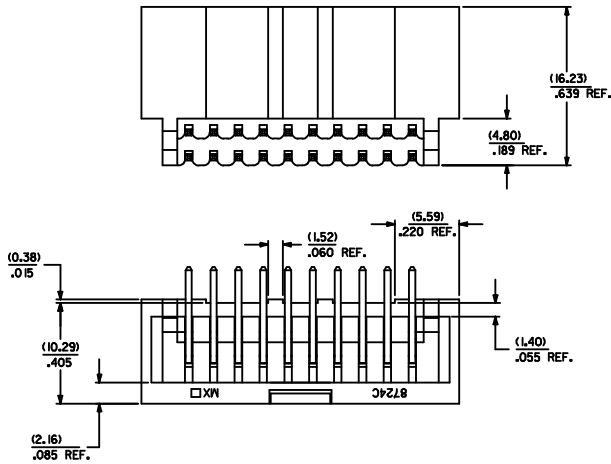


RECOMMENDED P.C. BOARD HOLE LAYOUT



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 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		
SIZE D		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SHEET NO. 5 OF 8				

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

ITEM NUMBER 74162	P REF	PLATING FINISH	CONNECTOR END PLATING				PC BOARD END PLATING			INFORMATION PK-70873
			TYPE	J LENGTH	K MEAS.		TYPE	L LENGTH	M MEAS.	
-2006-2072	3.30 .130	TIN	TIN	—	2.54 .100		TIN	—	1.27 .050	0019
-2106-2172	5.08 .200	TIN	TIN	—	2.54 .100		TIN	—	1.27 .050	0019
-2206-2272	3.30 .130	15 GOLD	GOLD	5.08 .200	2.54 .100		TIN	2.54 .100	1.27 .050	0019
-2306-2372	5.08 .200	15 GOLD	GOLD	5.08 .200	2.54 .100		TIN	2.54 .100	1.27 .050	0019
-2406-2472	3.30 .130	30 GOLD	GOLD	5.08 .200	2.54 .100		TIN	2.54 .100	1.27 .050	0019
-2506-2572	5.08 .200	30 GOLD	GOLD	5.08 .200	2.54 .100		TIN	2.54 .100	1.27 .050	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	
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72	74162-2072	74162-2172	74162-2272	74162-2372	74162-2472	74162-2572	

INITIAL RELEASE
EC NO. UCP2009-1776
DRAWN BY BARBA
CHKD BY BARKER
APPR. BY MILLER

2009/03/27
2009/04/20
2009/04/21

REV DESCRIPTION

QUALITY SYMBOLS
=0
=0

GENERAL TOLERANCES (UNLESS SPECIFIED)
mm INCH
4 PLACES ± --- ± ---
3 PLACES ± --- ± .010
2 PLACES ± 0.25 ± .014
1 PLACE ± 0.36 ± ---
ANGULAR ±1/2°
DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE
MM/IN

DRAWN BY DATE
SMILLER 2009/03/27

CHECKED BY DATE
BBARKER 2009/03/27

APPROVED BY DATE
SMILLER 2009/03/27

MATERIAL NO.
SEE TABLE

SIZE
D

SCALE
INCH

DESIGN UNITS
INCH

THIRD ANGLE PROJECTION

TITLE
SALES ASSEMBLY
WAFER-RIGHT ANGLE FULLY
SHROUDED .100 GRID
MOLEX INCORPORATED

DOCUMENT NO.
SD-74162-001

SHEET NO.
6 OF 8

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

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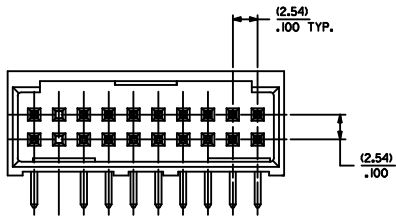
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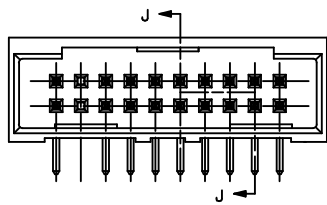
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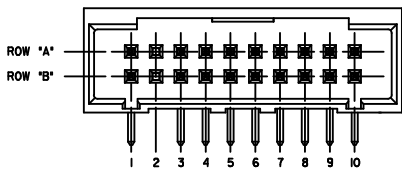
STYLE "A"



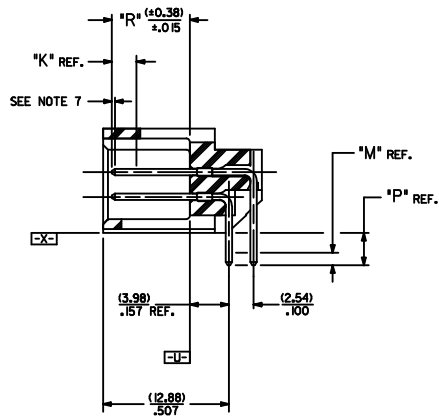
STYLE "B"



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)/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.

INITIAL RELEASE EC NO: UCP2009-1776 DRYNSI BARRA 2009/03/27 CHYKOBARKER 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	
			mm INCH		DRAWN BY SMILLER	DATE 2009/03/27	TITLE			
			4 PLACES ±.005	±.010	CHECKED BY BBARKER	DATE 2009/03/27	SALES ASSEMBLY WAFER-RIGHT ANGLE FULLY SHROUDED .100 GRID			
			2 PLACES ±0.25	±.014	APPROVED BY SMILLER	DATE 2009/03/27	MOLEX INCORPORATED			
			1 PLACE ±0.36							
			ANGULAR ±1/2°		MATERIAL NO.	DOCUMENT NO.		SHEET NO.		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE D		SEE TABLE THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			SD-74162-001 7 OF 8

