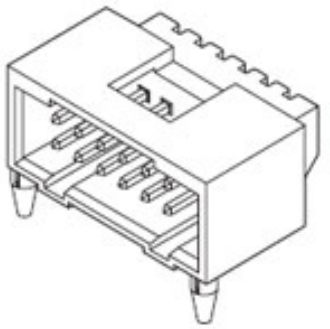
This document was generated on 05/21/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0741640120
Status: Active
Overview: cgrid__sl_products
Description: 2.54mm (.100") Pitch C-Grid® Receptacle, Right Angle, Through Hole, Dual Row, Shrouded with Pegs High-Temperature, 20 Circuits, Tin (Sn)



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Product Specification PS-74164-001 (PDF)
RoHS Certificate of Compliance (PDF)

Agency Certification

UL	E29179

General

Product Family	PCB Receptacles
Series	74164
Application	Board-to-Board
Overview	cgrid__sl_products
Product Name	C-Grid®

Physical

Circuits (Loaded)	20
Circuits (maximum)	20
Color - Resin	Black
Durability (mating cycles max)	25
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	Tin
Material - Plating Termination	Tin
Material - Resin	High Performance Thermoplastic
Number of Rows	2
Orientation	Right Angle
PCB Locator	Yes
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
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
Voltage - Maximum	250V

Solder Process Data

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
74164Series

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

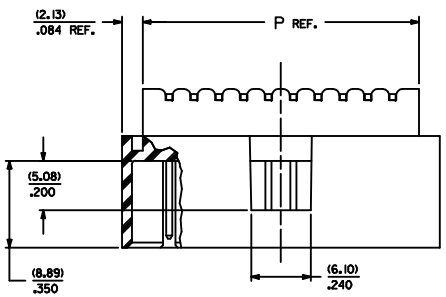
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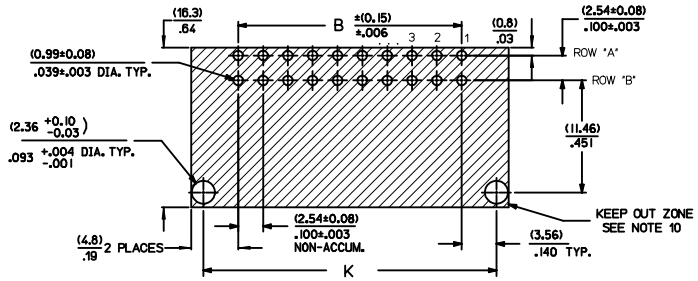
Reference - Drawing Numbers

Packaging Specification	PK-70873-0019
Product Specification	PS-74164-001
Sales Drawing	SD-74164-001

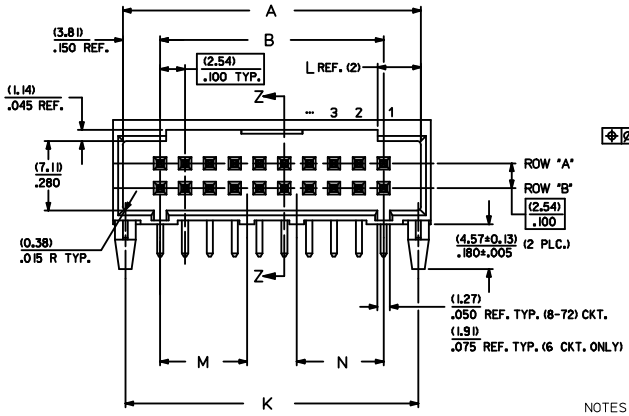
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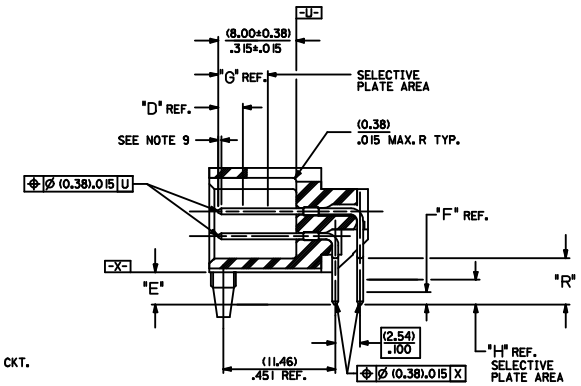
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



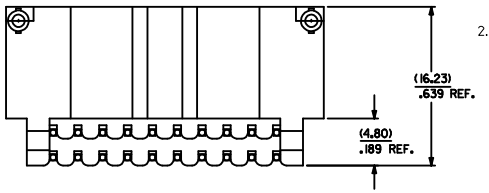


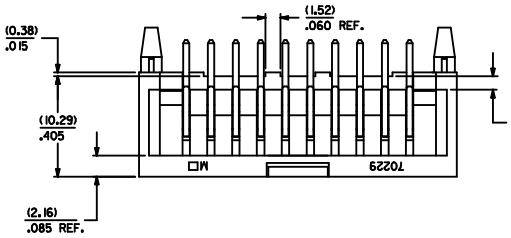
RECOMMENDED P.C. BOARD HOLE LAYOUT





SECTION Z-Z





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
   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	

INITIAL RELEASE
EC NO: UCP2009-1776 2009/03/30
DRWN:MSIBARRA 2009/04/20
CHKD:BBARKER 2009/04/21
APPR:SMILLER
DESCRIPTION
REV A

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
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

DRAWN BY: MIBARRA DATE: 2009/03/30
CHECKED BY: BBARKER DATE: 2009/03/30
APPROVED BY: SMILLER DATE: 2009/03/30

TITLE: SALES ASSEMBLY
RIGHT ANGLE SHROUDED
W/PC BOARD STAB PEGS

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-74164-001
SHEET NO.: 1 OF 2

SIZE D

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

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			
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56	74164-0056	74164-0156	74164-0256	74164-0356			
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66	74164-0066	74164-0166	74164-0266	74164-0366			
68	74164-0068	74164-0168	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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DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM/IN
SCALE:
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

DRAWN BY: MIBARRA DATE: 2009/03/30
CHECKED BY: BBARKER DATE: 2009/03/30
APPROVED BY: SMILLER DATE: 2009/03/30

TITLE: SALES ASSEMBLY RIGHT ANGLE SHROUDED W/PC BOARD STAB PEGS

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-74164-001
SHEET NO.: 2 OF 2
SIZE: D

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