

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0741640010](#)
Status: **Active**
Overview: [cgrid_sl_products](#)
Description: 2.54mm (.100") Pitch C-Grid® Receptacle, Right Angle, Through Hole, Dual Row, Shrouded with Pegs, Version A, High-Temperature, 10 Circuits, 0.4µm (15µ") Gold (Au)

Documents:
[3D Model](#) [Product Specification PS-74164-001 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

UL E29179

General

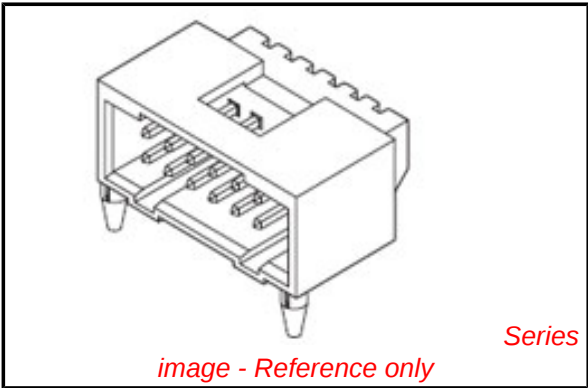
Product Family PCB Receptacles
Series [74164](#)
Application Board-to-Board
Overview [cgrid_sl_products](#)
Product Name C-Grid®

Physical

Circuits (Loaded) 10
Circuits (maximum) 10
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 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
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



EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free
Status
Not Reviewed



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](#)

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

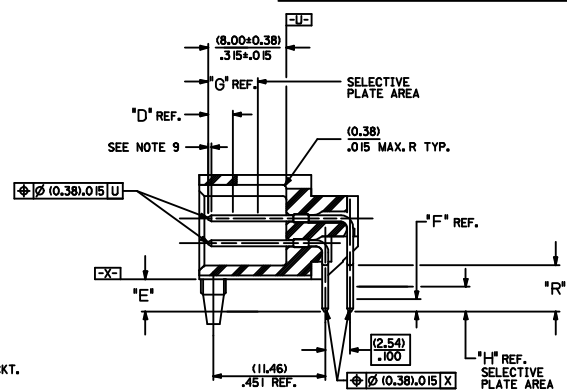
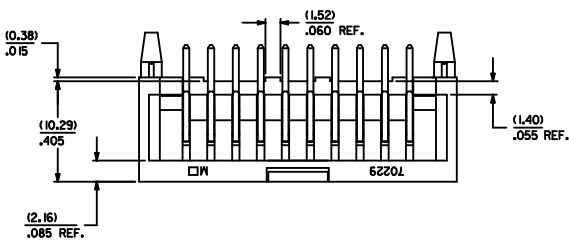
Material Info

Reference - Drawing Numbers

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

This document was generated on 05/21/2010

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SECTION Z-Z

- | INITIAL RELEASE
EC NO: UCT2009-776
DRAWN BY: BARBARA
CHKD BY: BARBARA
APPR. MILLER 2009/04/21 | QUALITY SYMBOLS

 | GENERAL TOLERANCES (UNLESS SPECIFIED)
<table border="1"> <thead> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> </thead> <tbody> <tr> <td>4 PLACES ±</td> <td>±.005</td> <td>±.0002</td> </tr> <tr> <td>3 PLACES ±</td> <td>±.010</td> <td>±.0004</td> </tr> <tr> <td>2 PLACES ±</td> <td>±.025</td> <td>±.0010</td> </tr> <tr> <td>1 PLACE ±</td> <td>±.036</td> <td>±.0014</td> </tr> </tbody> </table> | | mm | INCH | 4 PLACES ± | ±.005 | ±.0002 | 3 PLACES ± | ±.010 | ±.0004 | 2 PLACES ± | ±.025 | ±.0010 | 1 PLACE ± | ±.036 | ±.0014 | DIMENSION STYLE
MM/IN | | SCALE
INCH | DESIGN UNITS
INCH | THIRD ANGLE
 PROJECTION |
|--|---|--|---|---------------------|------|------------|-------|--------|------------|-------|--------|------------|-------|--------|-----------|-------|--------|--------------------------|--|---------------|----------------------|---|
| | | mm | INCH | | | | | | | | | | | | | | | | | | | |
| | 4 PLACES ± | ±.005 | ±.0002 | | | | | | | | | | | | | | | | | | | |
| | 3 PLACES ± | ±.010 | ±.0004 | | | | | | | | | | | | | | | | | | | |
| 2 PLACES ± | ±.025 | ±.0010 | | | | | | | | | | | | | | | | | | | | |
| 1 PLACE ± | ±.036 | ±.0014 | | | | | | | | | | | | | | | | | | | | |
| DESCRIPTION | DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS | DRAWN BY DATE
MILLER 2009/03/30
CHECKED BY DATE
BARBARA 2009/03/30
APPROVED BY DATE
MILLER 2009/03/30 | TITLE
SALES ASSEMBLY
RIGHT ANGLE SHROUDED
W/PC BOARD STAB PEGS | | | | | | | | | | | | | | | | | | | |
| REV | | ANGULAR ± 1/2°
MATERIAL NO.
SEE TABLE | MOLEX
MOLEX INCORPORATED
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 | | | | | | | | | | | | | | | | | | | |

KIT.	DIM. 'A'	DIM. 'B'	DIM. 'K'	DIM. 'L'	DIM. 'M'	DIM. 'N'	DIM. 'P'
06	(12.70) .500	(5.08) .200	(2.48) .180	(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) 1.000	(20.32) .800	(27.43) 1.080	(4.42) .174	—	—	(25.70) 1.012
20	(30.48) 1.200	(22.86) 1.000	(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) 2.000	(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) .759	(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) .759	(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) .759	(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) .759	(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) .759	(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

20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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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	<u>3.30</u> <u>.130</u>	<u>4.75</u> <u>.187</u>	15 GOLD	GOLD	<u>5.08</u> <u>.200</u>	<u>2.54</u> <u>.100</u>		TIN	<u>3.81</u> <u>.150</u>	<u>2.54</u> <u>.100</u>	0019	
-0106-0172	<u>3.30</u> <u>.130</u>	<u>4.75</u> <u>.187</u>	TIN	TIN	—	<u>2.54</u> <u>.100</u>		TIN	—	<u>2.54</u> <u>.100</u>	0019	
-0206-0272	<u>3.30</u> <u>.130</u>	<u>4.75</u> <u>.187</u>	50 GOLD	GOLD	<u>5.08</u> <u>.200</u>	<u>2.54</u> <u>.100</u>		TIN	<u>3.81</u> <u>.150</u>	<u>2.54</u> <u>.100</u>	0019	
-0306-0372	<u>3.30</u> <u>.130</u>	<u>4.75</u> <u>.187</u>	30 GOLD	GOLD	<u>5.08</u> <u>.200</u>	<u>2.54</u> <u>.100</u>		TIN	<u>3.81</u> <u>.150</u>	<u>2.54</u> <u>.100</u>	0019	
-3001	<u>3.30</u> <u>.130</u>	<u>4.75</u> <u>.187</u>	15 GOLD	GOLD	<u>5.08</u> <u>.200</u>	<u>2.54</u> <u>.100</u>		TIN	<u>3.81</u> <u>.150</u>	<u>2.54</u> <u>.100</u>	0019	A14, A15, A16, A18, A19, A22, A23 B14, B15, B16, B18, B19, B22, B23
	—	—			—	—			—	—		
	—	—			—	—			—	—		

NO. OF CKTS	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER
6	74164-0006	74164-0106	74164-0206	74164-0306			
8	74164-0008	74164-0108	74164-0208	74164-0308			
10	74164-0010	74164-0110	74164-0210	74164-0310			
12	74164-0012	74164-0112	74164-0212	74164-0312			
14	74164-0014	74164-0114	74164-0214	74164-0314			
16	74164-0016	74164-0116	74164-0216	74164-0316			
18	74164-0018	74164-0118	74164-0218	74164-0318			
20	74164-0020	74164-0120	74164-0220	74164-0320			
22	74164-0022	74164-0122	74164-0222	74164-0322			
24	74164-0024	74164-0124	74164-0224	74164-0324			
26	74164-0026	74164-0126	74164-0226	74164-0326			
28	74164-0028	74164-0128	74164-0228	74164-0328			
30	74164-0030	74164-0130	74164-0230	74164-0330			
32	74164-0032	74164-0132	74164-0232	74164-0332			
34	74164-0034	74164-0134	74164-0234	74164-0334			
36	74164-0036	74164-0136	74164-0236	74164-0336			
38	74164-0038	74164-0138	74164-0238	74164-0338			
40	74164-0040	74164-0140	74164-0240	74164-0340			
42	74164-0042	74164-0142	74164-0242	74164-0342			
44	74164-0044	74164-0144	74164-0244	74164-0344			
46	74164-0046	74164-0146	74164-0246	74164-0346			
48	74164-0048	74164-0148	74164-0248	74164-0348			
50	74164-0050	74164-0150	74164-0250	74164-0350		74164-3001	
52	74164-0052	74164-0152	74164-0252	74164-0352			
54	74164-0054	74164-0154	74164-0254	74164-0354			
56	74164-0056	74164-0156	74164-0256	74164-0356			
58	74164-0058	74164-0158	74164-0258	74164-0358			
60	74164-0060	74164-0160	74164-0260	74164-0360			
62	74164-0062	74164-0162	74164-0262	74164-0362			
64	74164-0064	74164-0164	74164-0264	74164-0364			
66	74164-0066	74164-0166	74164-0266	74164-0366			
68	74164-0068	74164-0168	74164-0268	74164-0368			
70	74164-0070	74164-0170	74164-0270	74164-0370			
72	74164-0072	74164-0172	74164-0272	74164-0372			

INITIAL REV EC. NO. 1 DATE 1/2/2009 BY DEWANN BARBA CHK BY BARKER APPR. SMILLER 2009/01/20 2009/01/20 2009/01/27		QUALITY SYMBOLS ▼=0 ▽=0		GENERAL TOLERANCES (UNLESS SPECIFIED) <table border="1"> <thead> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> </thead> <tbody> <tr> <td>4 PLACES</td> <td>±.00</td> <td>±.00</td> </tr> <tr> <td>3 PLACES</td> <td>±.01</td> <td>±.010</td> </tr> <tr> <td>2 PLACES</td> <td>±0.25</td> <td>±.014</td> </tr> <tr> <td>1 PLACE</td> <td>±0.36</td> <td>±.014</td> </tr> </tbody> </table> ANGULAR ±1/2°			mm	INCH	4 PLACES	±.00	±.00	3 PLACES	±.01	±.010	2 PLACES	±0.25	±.014	1 PLACE	±0.36	±.014	DIMENSION STYLE MM/IN DRAWN BY M1BARRA DATE 2009/03/30 CHECKED BY BBARKER DATE 2009/03/30 APPROVED BY SMILLER DATE 2009/03/30		SCALE DESIGN UNITS INCH THIRD ANGLE PROJECTION		TITLE SALES ASSEMBLY RIGHT ANGLE SHROUDED W/PC BOARD STAB PEGS MOLEX INCORPORATED	
	mm	INCH																								
4 PLACES	±.00	±.00																								
3 PLACES	±.01	±.010																								
2 PLACES	±0.25	±.014																								
1 PLACE	±0.36	±.014																								
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-74164-001		SHEET NO. 2 OF 2																		
SIZE D				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																						