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Part Number: [0741640138](#)
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, 38 Circuits, Tin (Sn)

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®

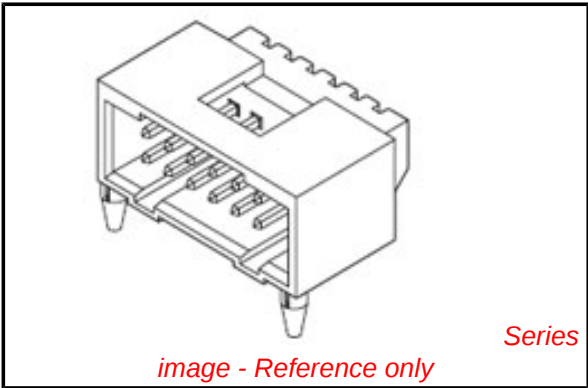
Physical

Circuits (Loaded) 38
Circuits (maximum) 38
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

Material Info

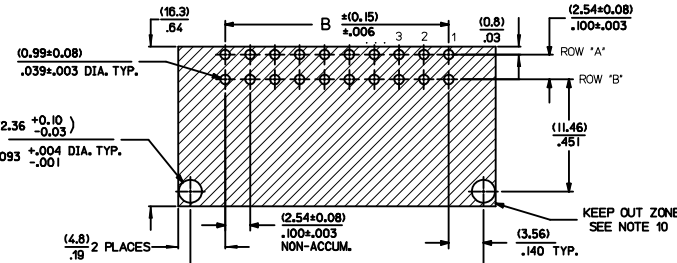
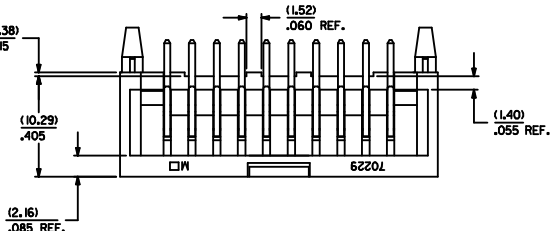
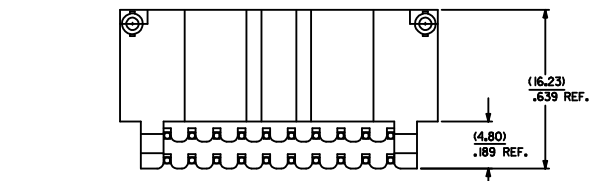
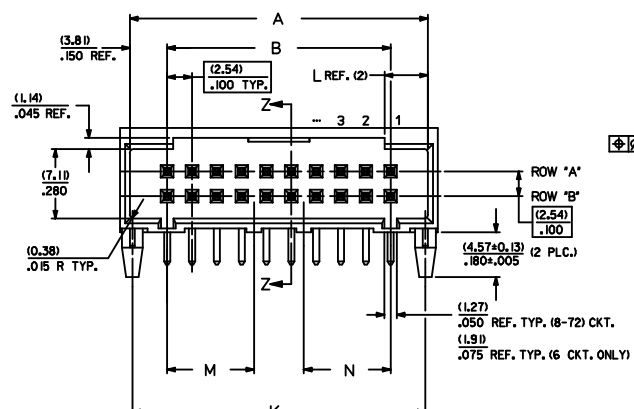
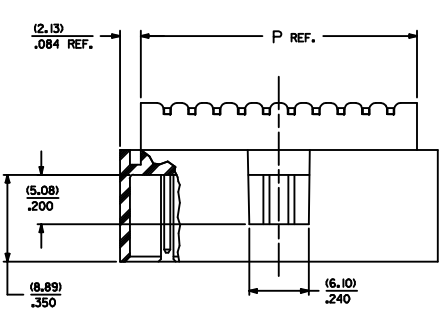
Old Part Number	71464-0138
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Reference - Drawing Numbers

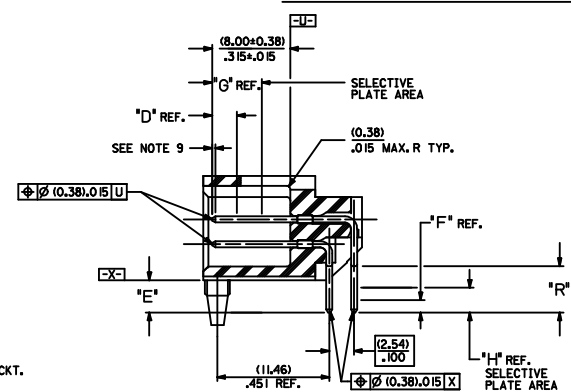
Packaging Specification	PK-70873-0019
Product Specification	PS-74164-001
Sales Drawing	SD-74164-001

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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 OVER NICKEL UNDERPLATE OVERALL
 - 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 OVER NICKEL UNDERPLATE OVERALL
 - 191 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 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 SOLDERABILITY 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	(13.30) .512			(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	(16.64) .655	(16.76) .660	(58.72) 2.312
46	(63.50) 2.500	(55.88) 2.200	(62.99) 2.480	(4.42) .174	(16.64) .655	(16.76) .660	(61.26) 2.412
48	(66.04) 2.600	(58.42) 2.300	(65.53) 2.580	(4.42) .174	(16.64) .655	(16.76) .660	(63.80) 2.512
50	(68.58) 2.700	(60.96) 2.400	(68.07) 2.680	(4.42) .174	(16.64) .655	(16.76) .660	(66.34) 2.612
52	(71.12) 2.800	(63.50) 2.500	(70.61) 2.780	(4.42) .174	(16.64) .655	(16.76) .660	(68.88) 2.712
54	(73.66) 2.900	(66.04) 2.600	(73.15) 2.880	(4.42) .174	(16.64) .655	(16.76) .660	(71.42) 2.812
56	(76.20) 3.000	(68.58) 2.700	(75.69) 2.980	(4.42) .174	(16.64) .655	(16.76) .660	(73.96) 2.912
58	(78.74) 3.100	(71.12) 2.800	(78.23) 3.080	(4.42) .174	(16.64) .655	(16.76) .660	(76.50) 3.012
60	(81.28) 3.200	(73.66) 2.900	(80.77) 3.180	(4.42) .174	(16.64) .655	(16.76) .660	(79.04) 3.112
62	(83.82) 3.300	(76.20) 3.000	(83.31) 3.280	(4.42) .174	(16.64) .655	(16.76) .660	(81.58) 3.212
64	(86.36) 3.400	(78.74) 3.100	(85.85) 3.380	(4.42) .174	(16.64) .655	(16.76) .660	(84.12) 3.312
66	(88.90) 3.500	(81.28) 3.200	(88.39) 3.480	(4.42) .174	(16.64) .655	(16.76) .660	(86.66) 3.412
68	(91.44) 3.600	(83.82) 3.300	(90.93) 3.580	(4.42) .174	(16.64) .655	(16.76) .660	(89.20) 3.512
70	(93.98) 3.700	(86.36) 3.400	(93.47) 3.680	(4.42) .174	(16.64) .655	(16.76) .660	(91.74) 3.612
72	(96.52) 3.800	(88.90) 3.500	(96.01) 3.780	(4.42) .174	(16.64) .655	(16.76) .660	(94.28) 3.712

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APPR: SMILLER
DATE: 2009/03/30
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DATE: 2009/04/21

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

SALES ASSEMBLY
RIGHT ANGLE SHROUDED
W/PC BOARD STAB PEGS

MOLEX INCORPORATED

SD-74164-001

SHEET NO.
1 OF 2

tb_frame_D_P_AH_T
Rev. E 2006/04/15

