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Part Number: [0015453624](#)
Status: **Active**
Overview: [cgrid_sl_products](#)
Description: 2.54mm (.100") Pitch C-Grid® PCB Connector, Surface Mount, High Profile, Dual Row, Vertical, 24 Circuits

Documents:

[3D Model](#) [Product Specification PS-71395 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR19980
 UL E29179

General

Product Family PCB Receptacles
 Series [71395](#)
 Application Board-to-Board
 Overview [cgrid_sl_products](#)
 Product Name C-Grid®

Physical

Circuits (Loaded) 24
 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 No
 Material - Metal Phosphor Bronze
 Material - Plating Mating Gold
 Material - Plating Termination Tin
 Material - Resin High Temperature Thermoplastic
 Number of Rows 2
 Orientation Vertical
 PC Tail Length (in) 0.058 In
 PC Tail Length (mm) 1.47 mm
 PCB Locator Yes
 PCB Retention Yes
 Packaging Type Tray
 Pitch - Mating Interface (in) 0.100 In
 Pitch - Mating Interface (mm) 2.54 mm
 Plating min: Mating (µin) 30
 Plating min: Mating (µm) 0.75
 Plating min: Termination (µin) 75
 Plating min: Termination (µm) 1.875
 Polarized to PCB No
 Surface Mount Compatible (SMC) N/A
 Temperature Range - Operating -40°C to +105°C
 Termination Interface: Style Surface Mount

Electrical

Current - Maximum per Contact 2.5A
 Grounding to PCB No
 Voltage - Maximum 250V



EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
 Not Reviewed
**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

[71395Series](#)

Mates With

[8624](#) C-Grid® Breakaway Header, [70246](#) Straight Header, [70247](#) Right Angle Header, [70287](#) C-Grid® Header, [70227](#) Dual Row C-Grid® Header, [70567](#) C-Grid® Header, [70280](#) C-Grid® Breakaway Header, [70524](#) C-Grid® Breakaway Header, [Z](#)

Solder Process Data

Lead-free Process Capability
Process Temperature max. C

Reflow Capable (SMT only)
260

Material Info

Old Part Number

71395-0224

Reference - Drawing Numbers

Application Specification

AS-71395-001

Packaging Specification

PK-70873-0662

Product Specification

PS-71395

Sales Drawing

SDA-71395-0***

This document was generated on 05/31/2010

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RECOMMENDED P.C. BOARD LAYOUT
SCALE: 4:1

SECTION B-B

- VERSION WITH PCB RETENTION PEGS -

- NOTES:
- HOUSING MATERIAL: GLASS FILLED LIQUID CRYSTAL POLYMER; UL 94V-0. COLOR: BLACK
 - TERMINAL MATERIAL: PHOSPHOR BRONZE
 - SEE SHEET 2 FOR CIRCUIT SIZES AND OVER-ALL DIMENSIONS.
 - SEE PRODUCT SPEC. PS-71395 FOR PERFORMANCE CRITERIA.
 - STANDARD PACKAGING PER PK-70873-0662 (TRAY PACK)

RETENTION PEG FOR PRESS FIT APPLICATIONS (SEE NOTE 4)

| | |
|-----|-----|
| 2 | J |
| 1 | K |
| SHT | REV |

| | | | | | |
|---|---|--|---|---|---|
| ADD SMT DIM & TOL EC NO: UCP2008-1594 DRAWN: DMORGAN 2008/04/04 CHKD: HS IBARRA 2008/04/22 APPR: SMILLER 2008/04/22 | QUALITY SYMBOLS ▽=0 ▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) 4 PLACES ± --- ± --- 3 PLACES ± --- ± .010 2 PLACES ± 0.25 ± .014 1 PLACE ± 0.35 ± --- ANGULAR ± 1/2° | DIMENSION STYLE MM/IN DRAWN BY DATE CHECKED BY DATE RB 12/03/1985 APPROVED BY DATE | SCALE 10:1 DESIGN UNITS INCH THIRD ANGLE PROJECTION | TITLE CONNECTOR DUAL ROW VERTICAL SURFACE MOUNT TOP ENTRY ON .100 GRID |
| | MATERIAL NO. SEE CHART | MOLEX INCORPORATED | DOCUMENT NO. SDA-71395-0*** | SHEET NO. 1 OF 2 | |
| | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | | | |
| | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | |

| NO. OF CKTS. | TIN PLATING | | | 15 GOLD PLATING | | | 30 GOLD PLATING | | | DIMENSIONS | | | | | | |
|--------------|-------------|------------|--------------|-----------------|--------------------|--------------|-----------------|--------------------|--------------|---------------|--------------------|-----------|--------|-----------|--------|-----------|
| | PER ROW | TOTAL | E.D.P. NO. | ENG. NO. | STANDARD PACKAGING | E.D.P. NO. | ENG. NO. | STANDARD PACKAGING | E.D.P. NO. | ENG. NO. | STANDARD PACKAGING | DIM. INCH | "A" MM | DIM. INCH | "B" MM | DIM. INCH |
| 4 | 8 | 15-45-3408 | A-71395-0008 | PK-70873-0662 | 15-45-3508 | A-71395-0108 | PK-70873-0662 | 15-45-3608 | A-71395-0208 | PK-70873-0662 | .300 | 7,62 | .399 | 10,13 | .200 | 5,08 |
| 5 | 10 | 15-45-3410 | A-71395-0010 | PK-70873-0662 | 15-45-3510 | A-71395-0110 | PK-70873-0662 | 15-45-3610 | A-71395-0210 | PK-70873-0662 | .400 | 10,16 | .499 | 12,67 | .300 | 7,62 |
| 6 | 12 | 15-45-3412 | A-71395-0012 | PK-70873-0662 | 15-45-3512 | A-71395-0112 | PK-70873-0662 | 15-45-3612 | A-71395-0212 | PK-70873-0662 | .500 | 12,70 | .599 | 15,21 | .400 | 10,16 |
| 7 | 14 | 15-45-3414 | A-71395-0014 | PK-70873-0662 | 15-45-3514 | A-71395-0114 | PK-70873-0662 | 15-45-3614 | A-71395-0214 | PK-70873-0662 | .600 | 15,24 | .699 | 17,75 | .500 | 12,70 |
| 8 | 16 | 15-45-3416 | A-71395-0016 | PK-70873-0662 | 15-45-3516 | A-71395-0116 | PK-70873-0662 | 15-45-3616 | A-71395-0216 | PK-70873-0662 | .700 | 17,78 | .799 | 20,29 | .600 | 15,24 |
| 9 | 18 | 15-45-3418 | A-71395-0018 | PK-70873-0662 | 15-45-3518 | A-71395-0118 | PK-70873-0662 | 15-45-3618 | A-71395-0218 | PK-70873-0662 | .800 | 20,32 | .899 | 22,83 | .700 | 17,78 |
| 10 | 20 | 15-45-3420 | A-71395-0020 | PK-70873-0662 | 15-45-3520 | A-71395-0120 | PK-70873-0662 | 15-45-3620 | A-71395-0220 | PK-70873-0662 | .900 | 22,86 | .999 | 25,37 | .800 | 20,32 |
| 11 | 22 | 15-45-3422 | A-71395-0022 | PK-70873-0662 | 15-45-3522 | A-71395-0122 | PK-70873-0662 | 15-45-3622 | A-71395-0222 | PK-70873-0662 | 1.000 | 25,40 | 1.099 | 27,91 | .900 | 22,86 |
| 12 | 24 | 15-45-3424 | A-71395-0024 | PK-70873-0662 | 15-45-3524 | A-71395-0124 | PK-70873-0662 | 15-45-3624 | A-71395-0224 | PK-70873-0662 | 1.100 | 27,94 | 1.199 | 30,45 | 1.000 | 25,40 |
| 13 | 26 | 15-45-3426 | A-71395-0026 | PK-70873-0662 | 15-45-3526 | A-71395-0126 | PK-70873-0662 | 15-45-3626 | A-71395-0226 | PK-70873-0662 | 1.200 | 30,48 | 1.299 | 32,99 | 1.100 | 27,94 |
| 14 | 28 | 15-45-3428 | A-71395-0028 | PK-70873-0662 | 15-45-3528 | A-71395-0128 | PK-70873-0662 | 15-45-3628 | A-71395-0228 | PK-70873-0662 | 1.300 | 33,02 | 1.399 | 35,53 | 1.200 | 30,48 |
| 15 | 30 | 15-45-3430 | A-71395-0030 | PK-70873-0662 | 15-45-3530 | A-71395-0130 | PK-70873-0662 | 15-45-3630 | A-71395-0230 | PK-70873-0662 | 1.400 | 35,56 | 1.499 | 38,07 | 1.300 | 33,02 |
| 16 | 32 | 15-45-3432 | A-71395-0032 | PK-70873-0662 | 15-45-3532 | A-71395-0132 | PK-70873-0662 | 15-45-3632 | A-71395-0232 | PK-70873-0662 | 1.500 | 38,10 | 1.599 | 40,61 | 1.400 | 35,56 |
| 17 | 34 | 15-45-3434 | A-71395-0034 | PK-70873-0662 | 15-45-3534 | A-71395-0134 | PK-70873-0662 | 15-45-3634 | A-71395-0234 | PK-70873-0662 | 1.600 | 40,64 | 1.699 | 43,15 | 1.500 | 38,10 |
| 18 | 36 | 15-45-3436 | A-71395-0036 | PK-70873-0662 | 15-45-3536 | A-71395-0136 | PK-70873-0662 | 15-45-3636 | A-71395-0236 | PK-70873-0662 | 1.700 | 43,18 | 1.799 | 45,69 | 1.600 | 40,64 |
| 19 | 38 | 15-45-3438 | A-71395-0038 | PK-70873-0662 | 15-45-3538 | A-71395-0138 | PK-70873-0662 | 15-45-3638 | A-71395-0238 | PK-70873-0662 | 1.800 | 45,72 | 1.899 | 48,23 | 1.700 | 43,18 |
| 20 | 40 | 15-45-3440 | A-71395-0040 | PK-70873-0662 | 15-45-3540 | A-71395-0140 | PK-70873-0662 | 15-45-3640 | A-71395-0240 | PK-70873-0662 | 1.900 | 48,26 | 1.999 | 50,77 | 1.800 | 45,72 |
| 21 | 42 | 15-45-3442 | A-71395-0042 | PK-70873-0662 | 15-45-3542 | A-71395-0142 | PK-70873-0662 | 15-45-3642 | A-71395-0242 | PK-70873-0662 | 2.000 | 50,80 | 2.099 | 53,31 | 1.900 | 48,26 |
| 22 | 44 | 15-45-3444 | A-71395-0044 | PK-70873-0662 | 15-45-3544 | A-71395-0144 | PK-70873-0662 | 15-45-3644 | A-71395-0244 | PK-70873-0662 | 2.100 | 53,34 | 2.199 | 55,85 | 2.000 | 50,80 |
| 23 | 46 | 15-45-3446 | A-71395-0046 | PK-70873-0662 | 15-45-3546 | A-71395-0146 | PK-70873-0662 | 15-45-3646 | A-71395-0246 | PK-70873-0662 | 2.200 | 55,88 | 2.299 | 58,39 | 2.100 | 53,34 |
| 24 | 48 | 15-45-3448 | A-71395-0048 | PK-70873-0662 | 15-45-3548 | A-71395-0148 | PK-70873-0662 | 15-45-3648 | A-71395-0248 | PK-70873-0662 | 2.300 | 58,42 | 2.399 | 60,93 | 2.200 | 55,88 |
| 25 | 50 | 15-45-3450 | A-71395-0050 | PK-70873-0662 | 15-45-3550 | A-71395-0150 | PK-70873-0662 | 15-45-3650 | A-71395-0250 | PK-70873-0662 | 2.400 | 60,96 | 2.499 | 63,47 | 2.300 | 58,42 |
| 26 | 52 | 15-45-3452 | A-71395-0052 | PK-70873-0662 | 15-45-3552 | A-71395-0152 | PK-70873-0662 | 15-45-3652 | A-71395-0252 | PK-70873-0662 | 2.500 | 63,50 | 2.599 | 66,01 | 2.400 | 60,96 |
| 27 | 54 | 15-45-3454 | A-71395-0054 | PK-70873-0662 | 15-45-3554 | A-71395-0154 | PK-70873-0662 | 15-45-3654 | A-71395-0254 | PK-70873-0662 | 2.600 | 66,04 | 2.699 | 68,55 | 2.500 | 63,50 |
| 28 | 56 | 15-45-3456 | A-71395-0056 | PK-70873-0662 | 15-45-3556 | A-71395-0156 | PK-70873-0662 | 15-45-3656 | A-71395-0256 | PK-70873-0662 | 2.700 | 68,58 | 2.799 | 71,09 | 2.600 | 66,04 |
| 29 | 58 | 15-45-3458 | A-71395-0058 | PK-70873-0662 | 15-45-3558 | A-71395-0158 | PK-70873-0662 | 15-45-3658 | A-71395-0258 | PK-70873-0662 | 2.800 | 71,12 | 2.899 | 73,63 | 2.700 | 68,58 |
| 30 | 60 | 15-45-3460 | A-71395-0060 | PK-70873-0662 | 15-45-3560 | A-71395-0160 | PK-70873-0662 | 15-45-3660 | A-71395-0260 | PK-70873-0662 | 2.900 | 73,66 | 2.999 | 76,17 | 2.800 | 71,12 |
| 31 | 62 | 15-45-3462 | A-71395-0062 | PK-70873-0662 | 15-45-3562 | A-71395-0162 | PK-70873-0662 | 15-45-3662 | A-71395-0262 | PK-70873-0662 | 3.000 | 76,20 | 3.099 | 78,71 | 2.900 | 73,66 |
| 32 | 64 | 15-45-3464 | A-71395-0064 | PK-70873-0662 | 15-45-3564 | A-71395-0164 | PK-70873-0662 | 15-45-3664 | A-71395-0264 | PK-70873-0662 | 3.100 | 78,74 | 3.199 | 81,25 | 3.000 | 76,20 |
| 33 | 66 | 15-45-3466 | A-71395-0066 | PK-70873-0662 | 15-45-3566 | A-71395-0166 | PK-70873-0662 | 15-45-3666 | A-71395-0266 | PK-70873-0662 | 3.200 | 81,28 | 3.299 | 83,79 | 3.100 | 78,74 |
| 34 | 68 | 15-45-3468 | A-71395-0068 | PK-70873-0662 | 15-45-3568 | A-71395-0168 | PK-70873-0662 | 15-45-3668 | A-71395-0268 | PK-70873-0662 | 3.300 | 83,82 | 3.399 | 86,33 | 3.200 | 81,28 |
| 35 | 70 | 15-45-3470 | A-71395-0070 | PK-70873-0662 | 15-45-3570 | A-71395-0170 | PK-70873-0662 | 15-45-3670 | A-71395-0270 | PK-70873-0662 | 3.400 | 86,36 | 3.499 | 88,87 | 3.300 | 83,82 |
| 36 | 72 | 15-45-3472 | A-71395-0072 | PK-70873-0662 | 15-45-3572 | A-71395-0172 | PK-70873-0662 | 15-45-3672 | A-71395-0272 | PK-70873-0662 | 3.500 | 88,90 | 3.599 | 91,41 | 3.400 | 86,36 |
| 37 | 74 | 15-45-3474 | A-71395-0074 | PK-70873-0662 | 15-45-3574 | A-71395-0174 | PK-70873-0662 | 15-45-3674 | A-71395-0274 | PK-70873-0662 | 3.600 | 91,44 | 3.699 | 93,95 | 3.500 | 88,90 |
| 38 | 76 | 15-45-3476 | A-71395-0076 | PK-70873-0662 | 15-45-3576 | A-71395-0176 | PK-70873-0662 | 15-45-3676 | A-71395-0276 | PK-70873-0662 | 3.700 | 93,98 | 3.799 | 96,49 | 3.600 | 91,44 |
| 39 | 78 | 15-45-3478 | A-71395-0078 | PK-70873-0662 | 15-45-3578 | A-71395-0178 | PK-70873-0662 | 15-45-3678 | A-71395-0278 | PK-70873-0662 | 3.800 | 96,52 | 3.899 | 99,03 | 3.700 | 93,98 |
| 40 | 80 | 15-45-3480 | A-71395-0080 | PK-70873-0662 | 15-45-3580 | A-71395-0180 | PK-70873-0662 | 15-45-3680 | A-71395-0280 | PK-70873-0662 | 3.900 | 99,06 | 3.999 | 101,57 | 3.800 | 96,52 |

PLATING:
 TIN (3.75 MICROMETER)/150 MICROINCH MINIMUM TIN OVER
 (.125 MICROMETER)/50 MICROINCH MINIMUM NICKEL OVERALL.
 15 GOLD (.037 MICROMETER)/15 MICROINCH MINIMUM SELECTIVE GOLD IN THE CONTACT AREA;
 (.188 MICROMETER)/75 MICROINCH MINIMUM SELECTIVE TIN IN THE PC TAIL AREA OVER
 (.125 MICROMETER)/50 MICROINCH MINIMUM NICKEL OVERALL.
 30 GOLD (.075 MICROMETER)/30 MICROINCH MINIMUM SELECTIVE GOLD IN THE CONTACT AREA;
 (.188 MICROMETER)/75 MICROINCH MINIMUM SELECTIVE TIN IN THE PC TAIL AREA OVER
 (.125 MICROMETER)/50 MICROINCH MINIMUM NICKEL OVERALL.

*THE PRIMARY SHIPPING CARTON WILL BE LABELED *COMPLIANT TO
 RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC.
 CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH LEAD.

- VERSION WITH PCB RETENTION PEGS -

| | | | | | | | | | | | | | | | | |
|---------|-------------|---|---|--|-----|-----|-----|---------|---|-----|-----|---------|-----|-----|-----|---|
| J | SEE SHEET I | DIMENSIONS SHOWN (METRIC) INCH UNLESS OTHERWISE SPECIFIED TOLERANCES ANGULAR ± 1/2° | <table border="1"> <tr><td>3 PLACE</td><td>±</td><td>---</td><td>---</td></tr> <tr><td>2 PLACE</td><td>±</td><td>---</td><td>---</td></tr> <tr><td>1 PLACE</td><td>---</td><td>---</td><td>---</td></tr> </table> | 3 PLACE | ± | --- | --- | 2 PLACE | ± | --- | --- | 1 PLACE | --- | --- | --- | ▽ = 0 ▽ = 0 REVISE ONLY ON CAD SYSTEM TITLE: CONNECTOR DUAL ROW VERTICAL SURFACE MOUNT TOP ENTRY ON .100 GRID MOLEX INCORPORATED LITTLE, ILL. 60532 U.S.A. SHEET NO. 2 DATE 12 / 18 / 85 PART NO. SEE CHART DRWG. NO. SDA-71395-0*** |
| 3 PLACE | ± | | | --- | --- | | | | | | | | | | | |
| 2 PLACE | ± | --- | --- | | | | | | | | | | | | | |
| 1 PLACE | --- | --- | --- | | | | | | | | | | | | | |
| I | SEE SHEET I | | | | | | | | | | | | | | | |
| H | SEE SHEET I | DRWG. BY J L CHK'D. BY R B | SCALE : | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. | | | | | | | | | | | | |
| G | SEE SHEET I | LTR. REVISIONS | LTR. REVISIONS | FILE NAME: SC71395X0 DIV. TC | | | | | | | | | | | | |
| E | SEE SHEET I | | | | | | | | | | | | | | | |
| B | SEE SHEET I | | | | | | | | | | | | | | | |
| A | SEE SHEET I | | | | | | | | | | | | | | | |