

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0015453112](#)  
**Status:** **Active**  
**Overview:** [cgrid\\_sl\\_products](#)  
**Description:** 2.54mm (.100") Pitch C-Grid® PCB Connector, Surface Mount, High Profile, Dual Row, Vertical, 12 Circuits

**Documents:**

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

**Agency Certification**

CSA E29179  
 UL E29179

**General**

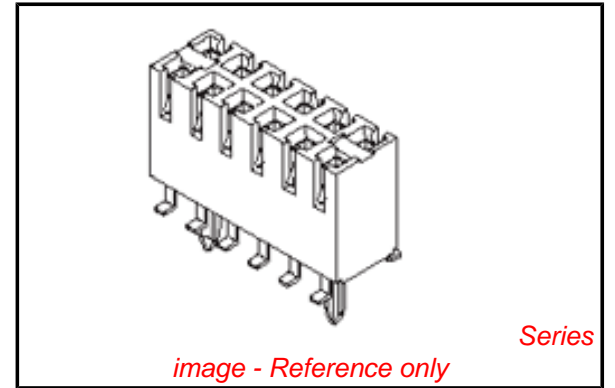
Product Family PCB Receptacles  
 Series [71395](#)  
 Application Board-to-Board  
 Overview [cgrid\\_sl\\_products](#)  
 Product Name C-Grid®

**Physical**

Circuits (Loaded) 12  
 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 None  
 Packaging Type Tray  
 Pitch - Mating Interface (in) 0.100 In  
 Pitch - Mating Interface (mm) 2.54 mm  
 Plating min: Mating (µin) 15  
 Plating min: Mating (µm) 0.375  
 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](mailto: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

71395-1112

**Reference - Drawing Numbers**

Application Specification

AS-71395-001

Packaging Specification

PK-70873-0304

Product Specification

PS-71395

Sales Drawing

SDA-71395-1\*\*\*

This document was generated on 05/31/2010

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SECTION B-B

- VERSION WITHOUT PCB RETENTION PEGS -

NOTES:

- 1 - HOUSING MATERIAL: GLASS FILLED LCP (LIQUID CRYSTAL POLYMER), UL 94V-0, COLOR: BLACK.
- 2 - TERMINAL MATERIAL: (0.20)/.008 PHOSPHOR BRONZE
- 3 - SEE SHEET 2 FOR CIRCUIT SIZES AND OVER-ALL DIMENSIONS
- 4 - PART CONFORMS TO PS-71395
- 5 - PACKAGING:  
FOR TRAY PACK SEE PK-70873-0304.  
FOR TAPE AND REEL PACK SEE PK-71395-001.
- 6 - PRODUCT COMPLIES WITH CLASS B OF COSMETIC SPECIFICATION PS-45499-002.

|  |   |  |  |                      |            |   |              |                                      |           |
|--|---|--|--|----------------------|------------|---|--------------|--------------------------------------|-----------|
| ADD 71395-5040<br>EC NO: UCP2010-1001<br>DRW:MSI BARRA 2009/10/14<br>CHKD:DMORGAN 2009/12/01<br>APPR:SMILLER 2009/12/01<br>REV N | DESCRIPTION<br>QUALITY SYMBOLS<br>▽=0<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                |  | DIMENSION STYLE      |            | SCALE   | DESIGN UNITS | THIRD ANGLE PROJECTION               |           |
|  |   |  |  | MM/IN                |            |   | METRIC       |                                      |           |
|  |   |  |  | mm                   | INCH       | DRAWN BY  | DATE         | TITLE                                |           |
|  |   |  |  | 4 PLACES ± --- ± --- |            | CHECKED BY  | DATE         | MOLEX INCORPORATED<br>SDA-71395-1*** | SHEET NO. |
|  |   | 3 PLACES ± --- ± .010                                |  | RB                   | 1985/12/03 | 1 OF 3  |              |                                      |           |
|  |   | 2 PLACES ± 0.25 ± .014                               |  | APPROVED BY          | DATE       |   |              |                                      |           |
|  |   | 1 PLACE ± 0.35 ± ---                                 |  |                      |            |   |              |                                      |           |
|  |   | ANGULAR ±1/2°  |  | MATERIAL NO.         |            | DOCUMENT NO.  |              |                                      |           |
|  |   | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |  | SEE CHART            |            |   |              |                                      |           |
|  |   |  |  | SIZE C               |            | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |              |                                      |           |

- VERSION WITHOUT PCB RETENTION PEGS -

| NO. OF CKTS. | TIN PLATING |            |               | 15 GOLD PLATING |                |               | 30 GOLD PLATING |                |               | DIM. "A"      |                | DIM. "B" |       |        |
|--------------|-------------|------------|---------------|-----------------|----------------|---------------|-----------------|----------------|---------------|---------------|----------------|----------|-------|--------|
|              | PER ROW     | TOTAL      | E.D.P. NO.    | ENG. NO.        | TRAY PACKAGING | E.D.P. NO.    | ENG. NO.        | TRAY PACKAGING | E.D.P. NO.    | ENG. NO.      | TRAY PACKAGING | INCH     | MM    | INCH   |
| 2            | 4           | NA         | AX-71395-1004 | PK-70873-0304   | NA             | AX-71395-1104 | PK-70873-0304   | NA             | AX-71395-1204 | PK-70873-0304 | .100           | 2,54     | .199  | 5,05   |
| 3            | 6           | 71395-1006 | A-71395-1006  | PK-70873-0304   | NA             | AX-71395-1106 | PK-70873-0304   | NA             | AX-71395-1206 | PK-70873-0304 | .200           | 5,08     | .299  | 7,59   |
| 4            | 8           | 15-45-3208 | A-71395-1008  | PK-70873-0304   | 15-45-3108     | A-71395-1108  | PK-70873-0304   | 15-45-3308     | A-71395-1208  | PK-70873-0304 | .300           | 7,62     | .399  | 10,13  |
| 5            | 10          | 15-45-3210 | A-71395-1010  | PK-70873-0304   | 15-45-3110     | A-71395-1110  | PK-70873-0304   | 15-45-3310     | A-71395-1210  | PK-70873-0304 | .400           | 10,16    | .499  | 12,67  |
| 6            | 12          | 15-45-3212 | A-71395-1012  | PK-70873-0304   | 15-45-3112     | A-71395-1112  | PK-70873-0304   | 15-45-3312     | A-71395-1212  | PK-70873-0304 | .500           | 12,70    | .599  | 15,21  |
| 7            | 14          | 15-45-3214 | A-71395-1014  | PK-70873-0304   | 15-45-3114     | A-71395-1114  | PK-70873-0304   | 15-45-3314     | A-71395-1214  | PK-70873-0304 | .600           | 15,24    | .699  | 17,75  |
| 8            | 16          | 15-45-3216 | A-71395-1016  | PK-70873-0304   | 15-45-3116     | A-71395-1116  | PK-70873-0304   | 15-45-3316     | A-71395-1216  | PK-70873-0304 | .700           | 17,78    | .799  | 20,29  |
| 9            | 18          | 15-45-3218 | A-71395-1018  | PK-70873-0304   | 15-45-3118     | A-71395-1118  | PK-70873-0304   | 15-45-3318     | A-71395-1218  | PK-70873-0304 | .800           | 20,32    | .899  | 22,83  |
| 10           | 20          | 15-45-3220 | A-71395-1020  | PK-70873-0304   | 15-45-3120     | A-71395-1120  | PK-70873-0304   | 15-45-3320     | A-71395-1220  | PK-70873-0304 | .900           | 22,86    | .999  | 25,37  |
| 11           | 22          | 15-45-3222 | A-71395-1022  | PK-70873-0304   | 15-45-3122     | A-71395-1122  | PK-70873-0304   | 15-45-3322     | A-71395-1222  | PK-70873-0304 | 1.000          | 25,40    | 1.099 | 27,91  |
| 12           | 24          | 15-45-3224 | A-71395-1024  | PK-70873-0304   | 15-45-3124     | A-71395-1124  | PK-70873-0304   | 15-45-3324     | A-71395-1224  | PK-70873-0304 | 1.100          | 27,94    | 1.199 | 30,45  |
| 13           | 26          | 15-45-3226 | A-71395-1026  | PK-70873-0304   | 15-45-3126     | A-71395-1126  | PK-70873-0304   | 15-45-3326     | A-71395-1226  | PK-70873-0304 | 1.200          | 30,48    | 1.299 | 32,99  |
| 14           | 28          | 15-45-3228 | A-71395-1028  | PK-70873-0304   | 15-45-3128     | A-71395-1128  | PK-70873-0304   | 15-45-3328     | A-71395-1228  | PK-70873-0304 | 1.300          | 33,02    | 1.399 | 35,53  |
| 15           | 30          | 15-45-3230 | A-71395-1030  | PK-70873-0304   | 15-45-3130     | A-71395-1130  | PK-70873-0304   | 15-45-3330     | A-71395-1230  | PK-70873-0304 | 1.400          | 35,56    | 1.499 | 38,07  |
| 16           | 32          | 15-45-3232 | A-71395-1032  | PK-70873-0304   | 15-45-3132     | A-71395-1132  | PK-70873-0304   | 15-45-3332     | A-71395-1232  | PK-70873-0304 | 1.500          | 38,10    | 1.599 | 40,61  |
| 17           | 34          | 15-45-3234 | A-71395-1034  | PK-70873-0304   | 15-45-3134     | A-71395-1134  | PK-70873-0304   | 15-45-3334     | A-71395-1234  | PK-70873-0304 | 1.600          | 40,64    | 1.699 | 43,15  |
| 18           | 36          | 15-45-3236 | A-71395-1036  | PK-70873-0304   | 15-45-3136     | A-71395-1136  | PK-70873-0304   | 15-45-3336     | A-71395-1236  | PK-70873-0304 | 1.700          | 43,18    | 1.799 | 45,69  |
| 19           | 38          | 15-45-3238 | A-71395-1038  | PK-70873-0304   | 15-45-3138     | A-71395-1138  | PK-70873-0304   | 15-45-3338     | A-71395-1238  | PK-70873-0304 | 1.800          | 45,72    | 1.899 | 48,23  |
| 20           | 40          | 15-45-3240 | A-71395-1040  | PK-70873-0304   | 15-45-3140     | A-71395-1140  | PK-70873-0304   | 15-45-3340     | A-71395-1240  | PK-70873-0304 | 1.900          | 48,26    | 1.999 | 50,77  |
| 21           | 42          | 15-45-3242 | A-71395-1042  | PK-70873-0304   | 15-45-3142     | A-71395-1142  | PK-70873-0304   | 15-45-3342     | A-71395-1242  | PK-70873-0304 | 2.000          | 50,80    | 2.099 | 53,31  |
| 22           | 44          | 15-45-3244 | A-71395-1044  | PK-70873-0304   | 15-45-3144     | A-71395-1144  | PK-70873-0304   | 15-45-3344     | A-71395-1244  | PK-70873-0304 | 2.100          | 53,34    | 2.199 | 55,85  |
| 23           | 46          | 15-45-3246 | A-71395-1046  | PK-70873-0304   | 15-45-3146     | A-71395-1146  | PK-70873-0304   | 15-45-3346     | A-71395-1246  | PK-70873-0304 | 2.200          | 55,88    | 2.299 | 58,39  |
| 24           | 48          | 15-45-3248 | A-71395-1048  | PK-70873-0304   | 15-45-3148     | A-71395-1148  | PK-70873-0304   | 15-45-3348     | A-71395-1248  | PK-70873-0304 | 2.300          | 58,42    | 2.399 | 60,93  |
| 25           | 50          | 15-45-3250 | A-71395-1050  | PK-70873-0304   | 15-45-3150     | A-71395-1150  | PK-70873-0304   | 15-45-3350     | A-71395-1250  | PK-70873-0304 | 2.400          | 60,96    | 2.499 | 63,47  |
| 26           | 52          | 15-45-3252 | A-71395-1052  | PK-70873-0304   | 15-45-3152     | A-71395-1152  | PK-70873-0304   | 15-45-3352     | A-71395-1252  | PK-70873-0304 | 2.500          | 63,50    | 2.599 | 66,01  |
| 27           | 54          | 15-45-3254 | A-71395-1054  | PK-70873-0304   | 15-45-3154     | A-71395-1154  | PK-70873-0304   | 15-45-3354     | A-71395-1254  | PK-70873-0304 | 2.600          | 66,04    | 2.699 | 68,55  |
| 28           | 56          | 15-45-3256 | A-71395-1056  | PK-70873-0304   | 15-45-3156     | A-71395-1156  | PK-70873-0304   | 15-45-3356     | A-71395-1256  | PK-70873-0304 | 2.700          | 68,58    | 2.799 | 71,09  |
| 29           | 58          | 15-45-3258 | A-71395-1058  | PK-70873-0304   | 15-45-3158     | A-71395-1158  | PK-70873-0304   | 15-45-3358     | A-71395-1258  | PK-70873-0304 | 2.800          | 71,12    | 2.899 | 73,63  |
| 30           | 60          | 15-45-3260 | A-71395-1060  | PK-70873-0304   | 15-45-3160     | A-71395-1160  | PK-70873-0304   | 15-45-3360     | A-71395-1260  | PK-70873-0304 | 2.900          | 73,66    | 2.999 | 76,17  |
| 31           | 62          | 15-45-3262 | A-71395-1062  | PK-70873-0304   | 15-45-3162     | A-71395-1162  | PK-70873-0304   | 15-45-3362     | A-71395-1262  | PK-70873-0304 | 3.000          | 76,20    | 3.099 | 78,71  |
| 32           | 64          | 15-45-3264 | A-71395-1064  | PK-70873-0304   | 15-45-3164     | A-71395-1164  | PK-70873-0304   | 15-45-3364     | A-71395-1264  | PK-70873-0304 | 3.100          | 78,74    | 3.199 | 81,25  |
| 33           | 66          | 15-45-3266 | A-71395-1066  | PK-70873-0304   | 15-45-3166     | A-71395-1166  | PK-70873-0304   | 15-45-3366     | A-71395-1266  | PK-70873-0304 | 3.200          | 81,28    | 3.299 | 83,79  |
| 34           | 68          | 15-45-3268 | A-71395-1068  | PK-70873-0304   | 15-45-3168     | A-71395-1168  | PK-70873-0304   | 15-45-3368     | A-71395-1268  | PK-70873-0304 | 3.300          | 83,82    | 3.399 | 86,33  |
| 35           | 70          | 15-45-3270 | A-71395-1070  | PK-70873-0304   | 15-45-3170     | A-71395-1170  | PK-70873-0304   | 15-45-3370     | A-71395-1270  | PK-70873-0304 | 3.400          | 86,36    | 3.499 | 88,87  |
| 36           | 72          | 15-45-3272 | A-71395-1072  | PK-70873-0304   | 15-45-3172     | A-71395-1172  | PK-70873-0304   | 15-45-3372     | A-71395-1272  | PK-70873-0304 | 3.500          | 88,90    | 3.599 | 91,41  |
| 37           | 74          | 15-45-3274 | A-71395-1074  | PK-70873-0304   | 15-45-3174     | A-71395-1174  | PK-70873-0304   | 15-45-3374     | A-71395-1274  | PK-70873-0304 | 3.600          | 91,44    | 3.699 | 93,95  |
| 38           | 76          | 15-45-3276 | A-71395-1076  | PK-70873-0304   | 15-45-3176     | A-71395-1176  | PK-70873-0304   | 15-45-3376     | A-71395-1276  | PK-70873-0304 | 3.700          | 93,98    | 3.799 | 96,49  |
| 39           | 78          | 15-45-3278 | A-71395-1078  | PK-70873-0304   | 15-45-3178     | A-71395-1178  | PK-70873-0304   | 15-45-3378     | A-71395-1278  | PK-70873-0304 | 3.800          | 96,52    | 3.899 | 99,03  |
| 40           | 80          | 15-45-3280 | A-71395-1080  | PK-70873-0304   | 15-45-3180     | A-71395-1180  | PK-70873-0304   | 15-45-3380     | A-71395-1280  | PK-70873-0304 | 3.900          | 99,06    | 3.999 | 101,57 |

|   |  |                                      |  |  |  |  |  |
|---|--|--------------------------------------|--|--|--|--|--|
| PLATING:<br>TIN (3.75 MICROMETER)/50 MICROINCH MINIMUM TIN OVER<br>(1.25 MICROMETER)/50 MICROINCH MINIMUM NICKEL OVERALL.<br><br>15 GOLD (0.37 MICROMETER)/15 MICROINCH MINIMUM SELECTIVE GOLD IN THE CONTACT AREA;<br>(1.88 MICROMETER)/75 MICROINCH MINIMUM SELECTIVE TIN IN THE PC TAIL AREA OVER<br>(1.25 MICROMETER)/50 MICROINCH MINIMUM NICKEL OVERALL.<br><br>30 GOLD (0.75 MICROMETER)/30 MICROINCH MINIMUM SELECTIVE GOLD IN THE CONTACT AREA;<br>(1.88 MICROMETER)/75 MICROINCH MINIMUM SELECTIVE TIN IN THE PC TAIL AREA OVER<br>(1.25 MICROMETER)/50 MICROINCH MINIMUM NICKEL OVERALL. | SEE SHEET 1<br>EC NO: UCP2010-1001<br>DRWINHIS BARRA 2009/10/14<br>CHKDJMORGAN 2009/12/01<br>APPR:SMILLER 2009/12/01 | QUALITY SYMBOLS<br>▽=0<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)<br>mm INCH<br>4 PLACES ±.005 ±.005<br>3 PLACES ±.005 ±.010<br>2 PLACES ±0.25 ±.014<br>1 PLACE ±0.35 ±.014<br>ANGULAR ±1/2° | DIMENSION STYLE<br>MM/IN<br>DRAWN BY DATE<br>CHECKED BY DATE<br>RB 1985/12/03<br>APPROVED BY DATE                                | SCALE<br>1:1<br>DESIGN UNITS<br>METRIC<br>THIRD ANGLE PROJECTION | CONNECTOR DUAL ROW<br>VERTICAL SURFACE MOUNT<br>TOP ENTRY ON .100 GRID<br>MOLEX MOLEX INCORPORATED | MATERIAL NO.<br>SEE CHART<br>DOCUMENT NO.<br>SDA-71395-1***<br>SHEET NO.<br>2 OF 3 |
|   |  |                                      | DRAFT WHERE APPLICABLE<br>MUST REMAIN WITHIN DIMENSIONS  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |  |  |

|   |              |       |             |          |                         |                 |              |                         |                 |              |                         |          |       |          |       |
|---|--------------|-------|-------------|----------|-------------------------|-----------------|--------------|-------------------------|-----------------|--------------|-------------------------|----------|-------|----------|-------|
|   | 13           | 12    | 11          | 10       | 9                       | 8               | 7            | 6                       | 5               | 4            | 3                       | 2        | 1     |          |       |
|   | NO. OF CKTS. |       | TIN PLATING |          |                         | 15 GOLD PLATING |              |                         | 30 GOLD PLATING |              |                         |          |       |          |       |
| J | PER ROW      | TOTAL | E.D.P. NO.  | ENG. NO. | TAPE AND REEL PACKAGING | E.D.P. NO.      | ENG. NO.     | TAPE AND REEL PACKAGING | E.D.P. NO.      | ENG. NO.     | TAPE AND REEL PACKAGING | DIM. "A" |       | DIM. "B" |       |
|   |              |       |             |          |                         |                 |              |                         |                 |              |                         | INCH     | MM    | INCH     | MM    |
|   | 7            | 14    | NA          | NA       | NA                      | NA              | NA           | NA                      | 71395-5114      | A-71395-5114 | PK-71395-001            | .600     | 15.24 | .699     | 17.75 |
|   | 8            | 16    | NA          | NA       | NA                      | 71395-5016      | A-71395-5016 | PK-71395-001            | NA              | NA           | NA                      | .700     | 17.78 | .799     | 20.29 |
|   |              |       | NA          | NA       | NA                      | NA              | NA           | NA                      | NA              | NA           | NA                      |          |       |          |       |
|   | 10           | 20    | NA          | NA       | NA                      | 71395-5020      | A-71395-5020 | PK-71395-001            | 71395-5120      | A-71395-5120 | PK-71395-001            | .900     | 22.86 | .999     | 25.37 |
| I | 20           | 40    | NA          | NA       | NA                      | 71395-5040      | A-71395-5040 | PK-71395-001            | NA              | NA           | NA                      | 1.900    | 48.26 | 1.999    | 50.77 |
|   |              |       | NA          | NA       | NA                      | NA              | NA           | NA                      | NA              | NA           | NA                      |          |       |          |       |



|  |  |  |   |                                      |  |    |      |      |          |        |        |          |        |        |          |        |        |         |        |        |  |  |  |                           |  |                                       |                            |
|--|--|--|---|--------------------------------------|--|----|------|------|----------|--------|--------|----------|--------|--------|----------|--------|--------|---------|--------|--------|--|--|--|---------------------------|--|---------------------------------------|----------------------------|
| A  | PLATING:   | TIN (3.75 MICROMETER)/150 MICROINCH MINIMUM TIN OVER<br>(1.25 MICROMETER)/50 MICROINCH MINIMUM NICKEL OVERALL.<br><br>15 GOLD (0.37 MICROMETER)/15 MICROINCH MINIMUM SELECTIVE GOLD IN THE CONTACT AREA;<br>(1.88 MICROMETER)/75 MICROINCH MINIMUM SELECTIVE TIN IN THE PC TAIL AREA OVER<br>(1.25 MICROMETER)/50 MICROINCH MINIMUM NICKEL OVERALL.<br><br>30 GOLD (0.75 MICROMETER)/30 MICROINCH MINIMUM SELECTIVE GOLD IN THE CONTACT AREA;<br>(1.88 MICROMETER)/75 MICROINCH MINIMUM SELECTIVE TIN IN THE PC TAIL AREA OVER<br>(1.25 MICROMETER)/50 MICROINCH MINIMUM NICKEL OVERALL. | ADD 71395-5040<br>EC NO: UCP2010-1001<br>DRWN:SI BARRA 2009/10/14<br>CHKD:DMORGAN 2009/12/01<br>APPR:SMILLER 2009/12/01 | QUALITY SYMBOLS<br>▽=0<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)<br><table border="1"> <tr> <td></td> <td>mm</td> <td>INCH</td> </tr> <tr> <td>4 PLACES</td> <td>± .---</td> <td>± .---</td> </tr> <tr> <td>3 PLACES</td> <td>± .---</td> <td>± .010</td> </tr> <tr> <td>2 PLACES</td> <td>± 0.25</td> <td>± .014</td> </tr> <tr> <td>1 PLACE</td> <td>± 0.35</td> <td>± .---</td> </tr> </table> |    | mm   | INCH | 4 PLACES | ± .--- | ± .--- | 3 PLACES | ± .--- | ± .010 | 2 PLACES | ± 0.25 | ± .014 | 1 PLACE | ± 0.35 | ± .--- | DIMENSION STYLE<br><b>MM/IN</b><br>DRAWN BY DATE<br>CHECKED BY DATE<br>RB 1985/12/03<br>APPROVED BY DATE | SCALE<br><b>1:1</b><br>DESIGN UNITS<br><b>METRIC</b><br>THIRD ANGLE PROJECTION | TITLE<br><b>CONNECTOR DUAL ROW<br/>         VERTICAL SURFACE MOUNT<br/>         TOP ENTRY ON .100 GRID</b> | <b>MOLEX INCORPORATED</b> | MATERIAL NO.<br><b>SEE CHART</b><br>SIZE | DOCUMENT NO.<br><b>SDA-71395-1***</b> | SHEET NO.<br><b>3 OF 3</b> |
|  |  |  |   |                                      |  | mm | INCH |      |          |        |        |          |        |        |          |        |        |         |        |        |  |  |  |                           |  |                                       |                            |
| 4 PLACES   | ± .---   | ± .---   |   |                                      |  |    |      |      |          |        |        |          |        |        |          |        |        |         |        |        |  |  |  |                           |  |                                       |                            |
| 3 PLACES   | ± .---   | ± .010   |   |                                      |  |    |      |      |          |        |        |          |        |        |          |        |        |         |        |        |  |  |  |                           |  |                                       |                            |
| 2 PLACES   | ± 0.25   | ± .014   |   |                                      |  |    |      |      |          |        |        |          |        |        |          |        |        |         |        |        |  |  |  |                           |  |                                       |                            |
| 1 PLACE  | ± 0.35   | ± .---   |   |                                      |  |    |      |      |          |        |        |          |        |        |          |        |        |         |        |        |  |  |  |                           |  |                                       |                            |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |   |                                      |  |    |      |      |          |        |        |          |        |        |          |        |        |         |        |        |  |  |  |                           |  |                                       |                            |

|  |              | 13    | 12          | 11            | 10             | 9               | 8             | 7              | 6               | 5             | 4              | 3        | 2     | 1        |        |   |
|--|--------------|-------|-------------|---------------|----------------|-----------------|---------------|----------------|-----------------|---------------|----------------|----------|-------|----------|--------|---|
| - VERSION WITHOUT PCB RETENTION PEGS - |              |       |             |               |                |                 |               |                |                 |               |                |          |       |          |        |   |
| J                                      | NO. OF CKTS. |       | TIN PLATING |               |                | 15 GOLD PLATING |               |                | 30 GOLD PLATING |               |                | DIM. "A" |       | DIM. "B" |        | J |
|  | PER ROW      | TOTAL | E.D.P. NO.  | ENG. NO.      | TRAY PACKAGING | E.D.P. NO.      | ENG. NO.      | TRAY PACKAGING | E.D.P. NO.      | ENG. NO.      | TRAY PACKAGING | INCH     | MM    | INCH     | MM     |   |
|  | 2            | 4     | NA          | AX-71395-1004 | PK-70873-0304  | NA              | AX-71395-1104 | PK-70873-0304  | NA              | AX-71395-1204 | PK-70873-0304  | .100     | 2,54  | .199     | 5,05   |   |
|  | 3            | 6     | 71395-1006  | A-71395-1006  | PK-70873-0304  | NA              | AX-71395-1106 | PK-70873-0304  | NA              | AX-71395-1206 | PK-70873-0304  | .200     | 5,08  | .299     | 7,59   |   |
| I                                      | 4            | 8     | 15-45-3208  | A-71395-1008  | PK-70873-0304  | 15-45-3108      | A-71395-1108  | PK-70873-0304  | 15-45-3308      | A-71395-1208  | PK-70873-0304  | .300     | 7,62  | .399     | 10,13  |   |
|  | 5            | 10    | 15-45-3210  | A-71395-1010  | PK-70873-0304  | 15-45-3110      | A-71395-1110  | PK-70873-0304  | 15-45-3310      | A-71395-1210  | PK-70873-0304  | .400     | 10,16 | .499     | 12,67  |   |
|  | 6            | 12    | 15-45-3212  | A-71395-1012  | PK-70873-0304  | 15-45-3112      | A-71395-1112  | PK-70873-0304  | 15-45-3312      | A-71395-1212  | PK-70873-0304  | .500     | 12,70 | .599     | 15,21  |   |
|  | 7            | 14    | 15-45-3214  | A-71395-1014  | PK-70873-0304  | 15-45-3114      | A-71395-1114  | PK-70873-0304  | 15-45-3314      | A-71395-1214  | PK-70873-0304  | .600     | 15,24 | .699     | 17,75  |   |
|  | 8            | 16    | 15-45-3216  | A-71395-1016  | PK-70873-0304  | 15-45-3116      | A-71395-1116  | PK-70873-0304  | 15-45-3316      | A-71395-1216  | PK-70873-0304  | .700     | 17,78 | .799     | 20,29  |   |
|  | 9            | 18    | 15-45-3218  | A-71395-1018  | PK-70873-0304  | 15-45-3118      | A-71395-1118  | PK-70873-0304  | 15-45-3318      | A-71395-1218  | PK-70873-0304  | .800     | 20,32 | .899     | 22,83  |   |
|  | 10           | 20    | 15-45-3220  | A-71395-1020  | PK-70873-0304  | 15-45-3120      | A-71395-1120  | PK-70873-0304  | 15-45-3320      | A-71395-1220  | PK-70873-0304  | .900     | 22,86 | .999     | 25,37  |   |
| H                                      | 11           | 22    | 15-45-3222  | A-71395-1022  | PK-70873-0304  | 15-45-3122      | A-71395-1122  | PK-70873-0304  | 15-45-3322      | A-71395-1222  | PK-70873-0304  | 1.000    | 25,40 | 1.099    | 27,91  |   |
|  | 12           | 24    | 15-45-3224  | A-71395-1024  | PK-70873-0304  | 15-45-3124      | A-71395-1124  | PK-70873-0304  | 15-45-3324      | A-71395-1224  | PK-70873-0304  | 1.100    | 27,94 | 1.199    | 30,45  |   |
|  | 13           | 26    | 15-45-3226  | A-71395-1026  | PK-70873-0304  | 15-45-3126      | A-71395-1126  | PK-70873-0304  | 15-45-3326      | A-71395-1226  | PK-70873-0304  | 1.200    | 30,48 | 1.299    | 32,99  |   |
|  | 14           | 28    | 15-45-3228  | A-71395-1028  | PK-70873-0304  | 15-45-3128      | A-71395-1128  | PK-70873-0304  | 15-45-3328      | A-71395-1228  | PK-70873-0304  | 1.300    | 33,02 | 1.399    | 35,53  |   |
|  | 15           | 30    | 15-45-3230  | A-71395-1030  | PK-70873-0304  | 15-45-3130      | A-71395-1130  | PK-70873-0304  | 15-45-3330      | A-71395-1230  | PK-70873-0304  | 1.400    | 35,56 | 1.499    | 38,07  |   |
|  | 16           | 32    | 15-45-3232  | A-71395-1032  | PK-70873-0304  | 15-45-3132      | A-71395-1132  | PK-70873-0304  | 15-45-3332      | A-71395-1232  | PK-70873-0304  | 1.500    | 38,10 | 1.599    | 40,61  |   |
|  | 17           | 34    | 15-45-3234  | A-71395-1034  | PK-70873-0304  | 15-45-3134      | A-71395-1134  | PK-70873-0304  | 15-45-3334      | A-71395-1234  | PK-70873-0304  | 1.600    | 40,64 | 1.699    | 43,15  |   |
| G                                      | 18           | 36    | 15-45-3236  | A-71395-1036  | PK-70873-0304  | 15-45-3136      | A-71395-1136  | PK-70873-0304  | 15-45-3336      | A-71395-1236  | PK-70873-0304  | 1.700    | 43,18 | 1.799    | 45,69  |   |
|  | 19           | 38    | 15-45-3238  | A-71395-1038  | PK-70873-0304  | 15-45-3138      | A-71395-1138  | PK-70873-0304  | 15-45-3338      | A-71395-1238  | PK-70873-0304  | 1.800    | 45,72 | 1.899    | 48,23  |   |
|  | 20           | 40    | 15-45-3240  | A-71395-1040  | PK-70873-0304  | 15-45-3140      | A-71395-1140  | PK-70873-0304  | 15-45-3340      | A-71395-1240  | PK-70873-0304  | 1.900    | 48,26 | 1.999    | 50,77  |   |
|  | 21           | 42    | 15-45-3242  | A-71395-1042  | PK-70873-0304  | 15-45-3142      | A-71395-1142  | PK-70873-0304  | 15-45-3342      | A-71395-1242  | PK-70873-0304  | 2.000    | 50,80 | 2.099    | 53,31  |   |
|  | 22           | 44    | 15-45-3244  | A-71395-1044  | PK-70873-0304  | 15-45-3144      | A-71395-1144  | PK-70873-0304  | 15-45-3344      | A-71395-1244  | PK-70873-0304  | 2.100    | 53,34 | 2.199    | 55,85  |   |
|  | 23           | 46    | 15-45-3246  | A-71395-1046  | PK-70873-0304  | 15-45-3146      | A-71395-1146  | PK-70873-0304  | 15-45-3346      | A-71395-1246  | PK-70873-0304  | 2.200    | 55,88 | 2.299    | 58,39  |   |
| F                                      | 24           | 48    | 15-45-3248  | A-71395-1048  | PK-70873-0304  | 15-45-3148      | A-71395-1148  | PK-70873-0304  | 15-45-3348      | A-71395-1248  | PK-70873-0304  | 2.300    | 58,42 | 2.399    | 60,93  |   |
|  | 25           | 50    | 15-45-3250  | A-71395-1050  | PK-70873-0304  | 15-45-3150      | A-71395-1150  | PK-70873-0304  | 15-45-3350      | A-71395-1250  | PK-70873-0304  | 2.400    | 60,96 | 2.499    | 63,47  |   |
|  | 26           | 52    | 15-45-3252  | A-71395-1052  | PK-70873-0304  | 15-45-3152      | A-71395-1152  | PK-70873-0304  | 15-45-3352      | A-71395-1252  | PK-70873-0304  | 2.500    | 63,50 | 2.599    | 66,01  |   |
|  | 27           | 54    | 15-45-3254  | A-71395-1054  | PK-70873-0304  | 15-45-3154      | A-71395-1154  | PK-70873-0304  | 15-45-3354      | A-71395-1254  | PK-70873-0304  | 2.600    | 66,04 | 2.699    | 68,55  |   |
|  | 28           | 56    | 15-45-3256  | A-71395-1056  | PK-70873-0304  | 15-45-3156      | A-71395-1156  | PK-70873-0304  | 15-45-3356      | A-71395-1256  | PK-70873-0304  | 2.700    | 68,58 | 2.799    | 71,09  |   |
|  | 29           | 58    | 15-45-3258  | A-71395-1058  | PK-70873-0304  | 15-45-3158      | A-71395-1158  | PK-70873-0304  | 15-45-3358      | A-71395-1258  | PK-70873-0304  | 2.800    | 71,12 | 2.899    | 73,63  |   |
| E                                      | 30           | 60    | 15-45-3260  | A-71395-1060  | PK-70873-0304  | 15-45-3160      | A-71395-1160  | PK-70873-0304  | 15-45-3360      | A-71395-1260  | PK-70873-0304  | 2.900    | 73,66 | 2.999    | 76,17  |   |
|  | 31           | 62    | 15-45-3262  | A-71395-1062  | PK-70873-0304  | 15-45-3162      | A-71395-1162  | PK-70873-0304  | 15-45-3362      | A-71395-1262  | PK-70873-0304  | 3.000    | 76,20 | 3.099    | 78,71  |   |
|  | 32           | 64    | 15-45-3264  | A-71395-1064  | PK-70873-0304  | 15-45-3164      | A-71395-1164  | PK-70873-0304  | 15-45-3364      | A-71395-1264  | PK-70873-0304  | 3.100    | 78,74 | 3.199    | 81,25  |   |
|  | 33           | 66    | 15-45-3266  | A-71395-1066  | PK-70873-0304  | 15-45-3166      | A-71395-1166  | PK-70873-0304  | 15-45-3366      | A-71395-1266  | PK-70873-0304  | 3.200    | 81,28 | 3.299    | 83,79  |   |
|  | 34           | 68    | 15-45-3268  | A-71395-1068  | PK-70873-0304  | 15-45-3168      | A-71395-1168  | PK-70873-0304  | 15-45-3368      | A-71395-1268  | PK-70873-0304  | 3.300    | 83,82 | 3.399    | 86,33  |   |
|  | 35           | 70    | 15-45-3270  | A-71395-1070  | PK-70873-0304  | 15-45-3170      | A-71395-1170  | PK-70873-0304  | 15-45-3370      | A-71395-1270  | PK-70873-0304  | 3.400    | 86,36 | 3.499    | 88,87  |   |
|  | 36           | 72    | 15-45-3272  | A-71395-1072  | PK-70873-0304  | 15-45-3172      | A-71395-1172  | PK-70873-0304  | 15-45-3372      | A-71395-1272  | PK-70873-0304  | 3.500    | 88,90 | 3.599    | 91,41  |   |
| D                                      | 37           | 74    | 15-45-3274  | A-71395-1074  | PK-70873-0304  | 15-45-3174      | A-71395-1174  | PK-70873-0304  | 15-45-3374      | A-71395-1274  | PK-70873-0304  | 3.600    | 91,44 | 3.699    | 93,95  |   |
|  | 38           | 76    | 15-45-3276  | A-71395-1076  | PK-70873-0304  | 15-45-3176      | A-71395-1176  | PK-70873-0304  | 15-45-3376      | A-71395-1276  | PK-70873-0304  | 3.700    | 93,98 | 3.799    | 96,49  |   |
|  | 39           | 78    | 15-45-3278  | A-71395-1078  | PK-70873-0304  | 15-45-3178      | A-71395-1178  | PK-70873-0304  | 15-45-3378      | A-71395-1278  | PK-70873-0304  | 3.800    | 96,52 | 3.899    | 99,03  |   |
|  | 40           | 80    | 15-45-3280  | A-71395-1080  | PK-70873-0304  | 15-45-3180      | A-71395-1180  | PK-70873-0304  | 15-45-3380      | A-71395-1280  | PK-70873-0304  | 3.900    | 99,06 | 3.999    | 101,57 |   |

| <b>PLATING:</b><br>TIN (3.75 MICROMETER)/150 MICROINCH MINIMUM TIN OVER<br>(1.25 MICROMETER)/50 MICROINCH MINIMUM NICKEL OVERALL.<br><br>15 GOLD (0.37 MICROMETER)/15 MICROINCH MINIMUM SELECTIVE GOLD IN THE CONTACT AREA;<br>(1.88 MICROMETER)/75 MICROINCH MINIMUM SELECTIVE TIN IN THE PC TAIL AREA OVER<br>(1.25 MICROMETER)/50 MICROINCH MINIMUM NICKEL OVERALL.<br><br>30 GOLD (0.75 MICROMETER)/30 MICROINCH MINIMUM SELECTIVE GOLD IN THE CONTACT AREA;<br>(1.88 MICROMETER)/75 MICROINCH MINIMUM SELECTIVE TIN IN THE PC TAIL AREA OVER<br>(1.25 MICROMETER)/50 MICROINCH MINIMUM NICKEL OVERALL. | ADD 71395-1006<br>EC NO: UCP2007-2946<br>DRW:NDORGAN 2007/06/19<br>CHKD:MS BARRA 2007/06/19<br>APPR:SMILLER 2007/06/22<br>REV: | QUALITY SYMBOLS<br>            | GENERAL TOLERANCES (UNLESS SPECIFIED)<br><table border="1"> <tr><th></th><th>mm</th><th>INCH</th></tr> <tr><td>4 PLACES</td><td>± .010</td><td>± .0004</td></tr> <tr><td>3 PLACES</td><td>± .015</td><td>± .0006</td></tr> <tr><td>2 PLACES</td><td>± 0.25</td><td>± .010</td></tr> <tr><td>1 PLACE</td><td>± 0.35</td><td>± .014</td></tr> </table> |         | mm | INCH | 4 PLACES | ± .010 | ± .0004 | 3 PLACES | ± .015 | ± .0006 | 2 PLACES | ± 0.25 | ± .010 | 1 PLACE | ± 0.35 | ± .014 | DIMENSION STYLE<br>MM/IN<br>DRAWN BY DATE<br>CHECKED BY DATE<br>APPROVED BY DATE | SCALE 10:1<br>DESIGN UNITS METRIC<br>THIRD ANGLE PROJECTION |
|---|--|--------------------------------|--|---------|----|------|----------|--------|---------|----------|--------|---------|----------|--------|--------|---------|--------|--------|--|---|
|   |  |                                | mm   | INCH    |    |      |          |        |         |          |        |         |          |        |        |         |        |        |  |   |
|   |  | 4 PLACES                       | ± .010   | ± .0004 |    |      |          |        |         |          |        |         |          |        |        |         |        |        |  |   |
| 3 PLACES  | ± .015   | ± .0006                        |  |         |    |      |          |        |         |          |        |         |          |        |        |         |        |        |  |   |
| 2 PLACES  | ± 0.25   | ± .010                         |  |         |    |      |          |        |         |          |        |         |          |        |        |         |        |        |  |   |
| 1 PLACE   | ± 0.35   | ± .014                         |  |         |    |      |          |        |         |          |        |         |          |        |        |         |        |        |  |   |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS  | MATERIAL NO.<br>SEE TABLE  | DOCUMENT NO.<br>SDA-71395-1*** | SHEET NO.<br>2   |         |    |      |          |        |         |          |        |         |          |        |        |         |        |        |  |   |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION   |  |                                |  |         |    |      |          |        |         |          |        |         |          |        |        |         |        |        |  |   |