

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

**Part Number:** [0437436101](#)  
**Status:** **Active**  
**Overview:** [modular\\_plugs\\_jacks](#)  
**Description:** Modular Jack, Right Angle, Low Profile, SMT, 6/4

**Documents:**

[3D Model](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Drawing \(PDF\)](#)

**Agency Certification**

CSA LR19980  
 UL E107635

**General**

Product Family Modular Jacks/Plugs  
 Series [43743](#)  
 Comments Outboard Solder Tabs  
 Component Type PCB Jack  
 Magnetic No  
 Overview [modular\\_plugs\\_jacks](#)  
 Performance Category 3  
 Power over Ethernet (PoE) N/A  
 Product Name RJ11

**Physical**

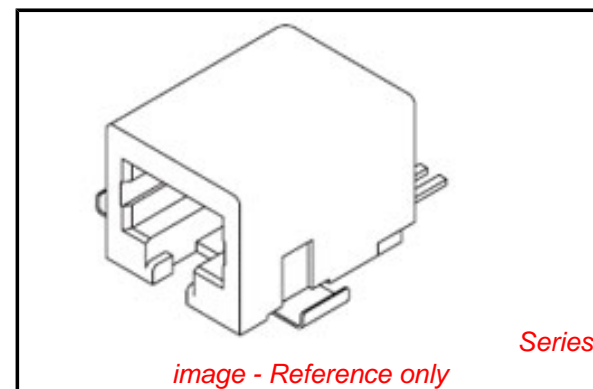
Color - Resin Black  
 Durability (mating cycles max) 500  
 Flammability 94V-0  
 Inverted / Top Latch No  
 Lightpipes/LEDs None  
 Material - Metal Phosphor Bronze  
 Material - Plating Mating Gold  
 Material - Plating Termination Tin  
 Material - Resin High Temperature Thermoplastic  
 Orientation Right Angle (Side Entry)  
 PCB Retention Yes  
 Packaging Type Embossed Tape on Reel  
 Pitch - Mating Interface (in) 0.050 In  
 Pitch - Mating Interface (mm) 1.27 mm  
 Plating min: Mating (µin) 50  
 Plating min: Mating (µm) 1.25  
 Plating min: Termination (µin) 100  
 Plating min: Termination (µm) 2.5  
 Ports 1  
 Positions / Loaded Contacts 6/4  
 Surface Mount Compatible (SMC) N/A  
 Temperature Range - Operating -40°C to +80°C  
 Termination Interface: Style Surface Mount  
 Wire/Cable Type N/A

**Electrical**

Current - Maximum per Contact 1.5A  
 Shielded No  
 Voltage - Maximum 125V

**Solder Process Data**

Lead-free Process Capability Reflow Capable (SMT only)



*image - Reference only*

**EU RoHS**

**ELV and RoHS  
 Compliant**  
**REACH SVHC  
 Contains SVHC: No**  
**Halogen-Free  
 Status**

**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**

[43743Series](#)

**Mates With**

FCC 68 Plugs

Process Temperature max. C

235

**Material Info**

**Reference - Drawing Numbers**

Packaging Specification

PK-70873-700\*

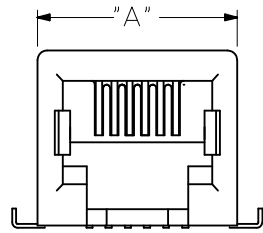
Sales Drawing

SDA-43743-\*\*\*\*

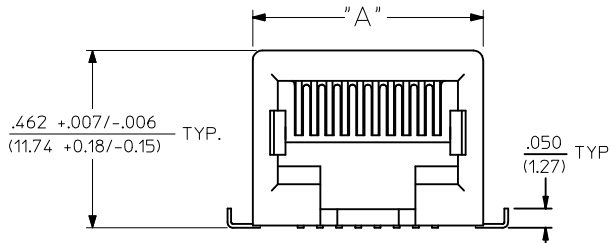
This document was generated on 06/07/2010

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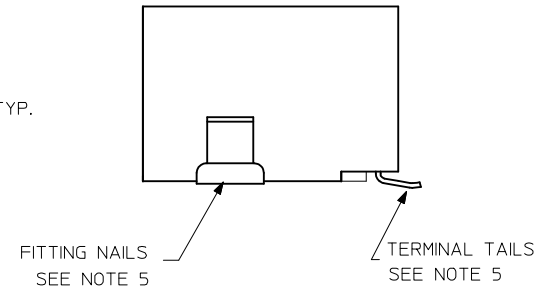
| HOUSING SIZE | CIRCUIT SIZE | DIM. A          | DIM. B         |
|--------------|--------------|-----------------|----------------|
| 6            | 6            | .520<br>(13.21) | .250<br>(6.35) |
| 6            | 4            | .520<br>(13.21) | .150<br>(3.81) |
| 6            | 2            | .520<br>(13.21) | .050<br>(1.27) |
| 8            | 8            | .600<br>(15.24) | .350<br>(8.89) |
| 8            | 6            | .600<br>(15.24) | .250<br>(6.35) |



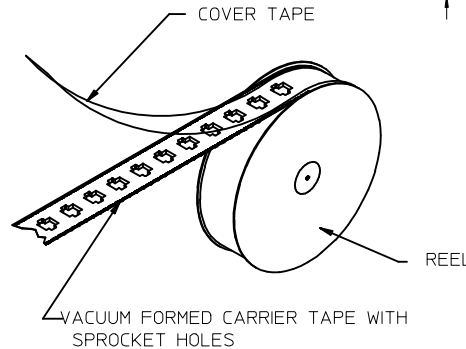
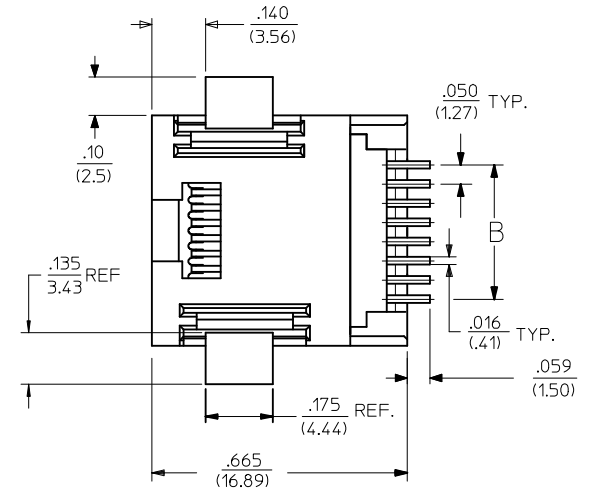
6 CIRCUIT ASSEMBLY



8 CIRCUIT ASSEMBLY



| ASSEMBLY ITEM NO. | CONNECTOR SIZE | CIRCUIT SIZE | TERMINAL PLATING | TAPE & REEL PACKAGING No. | VOIDED CIRCUITS |
|-------------------|----------------|--------------|------------------|---------------------------|-----------------|
| 43743-6001        | 6              | 6            | A                | PK-70873-7001             | NA              |
| 43743-6002        | 6              | 6            | B                |                           |                 |
| 43743-6003        | 6              | 6            | C                |                           |                 |
| 43743-6101        | 6              | 4            | A                |                           |                 |
| 43743-6102        | 6              | 4            | B                |                           |                 |
| 43743-6103        | 6              | 4            | C                | PK-70873-7001             |                 |
| 43743-8101        | 8              | 8            | A                | PK-70873-7002             |                 |
| 43743-8102        | 8              | 8            | B                |                           |                 |
| 43743-8103        | 8              | 8            | C                |                           |                 |
| 43743-8201        | 8              | 6            | A                |                           |                 |
| 43743-8202        | 8              | 6            | B                |                           |                 |
| 43743-8203        | 8              | 6            | C                |                           |                 |
| 43743-8301        | 8              | 4            | A                |                           |                 |
| 43743-8302        | 8              | 4            | B                |                           |                 |
| 43743-8303        | 8              | 4            | C                | PK-70873-7002             |                 |
| 43743-6201        | 6              | 2            | A                | PK-70873-7001             |                 |
| 43743-6202        | 6              | 2            | B                | PK-70873-7001             |                 |
| 43743-6203        | 6              | 2            | C                | PK-70873-7001             | NA              |

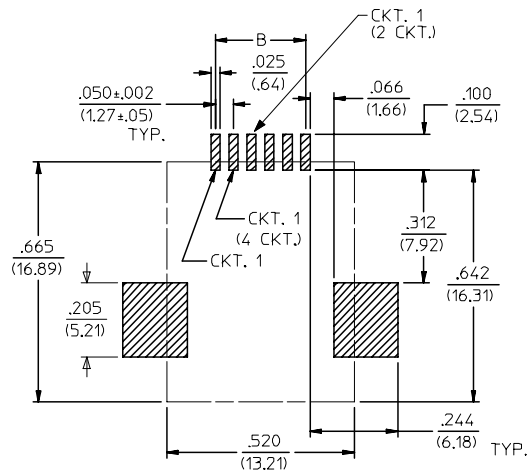


TAPE AND REEL PACKAGING

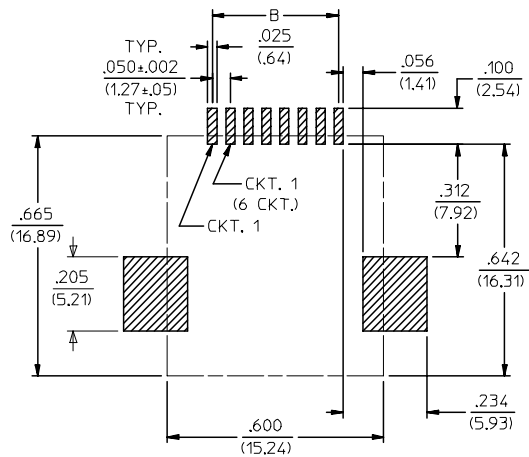
- NOTES:
- MATERIAL:  
HOUSING & INSULATOR: NYLON(PA), GLASS FILLED, UL94V-0, COLOR: BLACK  
TERMINALS: PHOSPHOR BRONZE, .012/(0.30) THICK  
FITTING NAILS: .010/(0.25) THICK
  - FINISH:  
TERMINALS:  
A = SELECT GOLD IN CONTACT AREA: .000050/(0.00127) MIN.,  
\*SELECT MATTE TIN IN PC TAIL AREA: .000100/(0.00254) MN.,  
WITH OVERALL NICKEL UNDERPLATE: .000050/(0.00127) MIN.,  
B = SELECT GOLD IN CONTACT AREA: .000030/(0.00076) MIN.,  
\*SELECT MATTE TIN IN PC TAIL AREA: .000100/(0.00254) MN.,  
WITH OVERALL NICKEL UNDERPLATE: .000050/(0.00127) MIN.,  
C = SELECT GOLD IN CONTACT AREA: .000015/(0.00038) MIN.,  
\*SELECT MATTE TIN IN PC TAIL AREA: .000100/(0.00254) MN.,  
WITH OVERALL NICKEL UNDERPLATE: .000050/(0.00127) MIN.
  - FITTING NAILS:  
\*100 MICROINCHES MATTE TIN OVER 50 MICROINCHES NICKEL UNDERPLATE  
\*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 TIN-LEAD IN THE PC TAILS AND/OR FITTING NAILS.
  - PRODUCT SPECIFICATION AND PROCESSING PARAMETERS: PS-43743-0001.
  - PACKAGING SPECIFICATION:  
CONNECTOR ASSEMBLIES TO BE PACKAGED USING TAPE & REEL SYSTEM.
  - COPLANARITY SPECIFICATION:  
WHEN AN ASSEMBLY IS PLACED UPON A LEVEL SURFACE, THE MAXIMUM GAP BETWEEN THE LEVEL SURFACE AND ALL TERMINAL TAILS AND BOTH FITTING NAILS IS .006/(0.15).
  - FOR ASSEMBLIES HAVING VOIDED CIRCUITS, THE TAIL PORTION IS CUT AND REMOVED. THE MATING PORTION OF THE TERMINAL REMAINS INTACT. VOIDED CIRCUITS MUST BE THE SAME FOR BOTH PARTS.
  - CONFORMS TO FCC REGULATION PART 68.5 FOR MODULAR JACKS.
  - THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

|     |     |
|-----|-----|
| 2   | H   |
| 1   | J3  |
| SHT | REV |

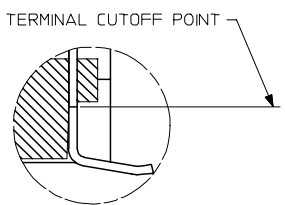
| <b>REVISED NOTES</b><br>EC NO: UCP2009-1244<br>DRAWN: JLOSTEMEIER 2008/12/10<br>CHKD: JBEL 2008/12/10<br>APPR: FSMITH 2008/12/10<br>DESCRIPTION                                       | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)<br><table border="1"> <tr><th colspan="2">mm</th><th colspan="2">INCH</th></tr> <tr><td>4 PLACES ±</td><td>---</td><td>±</td><td>---</td></tr> <tr><td>3 PLACES ±</td><td>---</td><td>±</td><td>.010</td></tr> <tr><td>2 PLACES ±</td><td>0.25</td><td>±</td><td>.014</td></tr> <tr><td>1 PLACE ±</td><td>0.36</td><td>±</td><td>---</td></tr> </table> ANGULAR ±1/2° | mm   |                            | INCH |  | 4 PLACES ± | --- | ± | --- | 3 PLACES ± | --- | ± | .010 | 2 PLACES ± | 0.25 | ± | .014 | 1 PLACE ± | 0.36 | ± | --- | DIMENSION STYLE<br><b>IN/MM</b> | SCALE<br><b>1:1</b> | DESIGN UNITS<br><b>INCH</b> | THIRD ANGLE PROJECTION |
|---|-------------------------------|---|------|----------------------------|------|--|------------|-----|---|-----|------------|-----|---|------|------------|------|---|------|-----------|------|---|-----|---------------------------------|---------------------|-----------------------------|------------------------|
|   | mm                            |   | INCH |                            |      |  |            |     |   |     |            |     |   |      |            |      |   |      |           |      |   |     |                                 |                     |                             |                        |
|   | 4 PLACES ±                    | ---   | ±    | ---                        |      |  |            |     |   |     |            |     |   |      |            |      |   |      |           |      |   |     |                                 |                     |                             |                        |
|   | 3 PLACES ±                    | ---   | ±    | .010                       |      |  |            |     |   |     |            |     |   |      |            |      |   |      |           |      |   |     |                                 |                     |                             |                        |
| 2 PLACES ±  | 0.25                          | ±   | .014 |                            |      |  |            |     |   |     |            |     |   |      |            |      |   |      |           |      |   |     |                                 |                     |                             |                        |
| 1 PLACE ±   | 0.36                          | ±   | ---  |                            |      |  |            |     |   |     |            |     |   |      |            |      |   |      |           |      |   |     |                                 |                     |                             |                        |
| DRAWN BY: PEARSON DATE: 6/18/96<br>CHECKED BY: PEARSON DATE: 6/18/96<br>APPROVED BY: EDGLEY DATE: 6/18/96   |                               | TITLE<br><b>SURFACE MOUNT MODULAR JACK</b>  |      | <b>MOLEX INCORPORATED</b>  |      |  |            |     |   |     |            |     |   |      |            |      |   |      |           |      |   |     |                                 |                     |                             |                        |
| MATERIAL NO.<br><b>SEE CHARTS</b>   |                               | DOCUMENT NO.<br><b>SDA-43743-****</b>   |      | SHEET NO.<br><b>1 OF 2</b> |      |  |            |     |   |     |            |     |   |      |            |      |   |      |           |      |   |     |                                 |                     |                             |                        |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS<br>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                               |   |      |                            |      |  |            |     |   |     |            |     |   |      |            |      |   |      |           |      |   |     |                                 |                     |                             |                        |



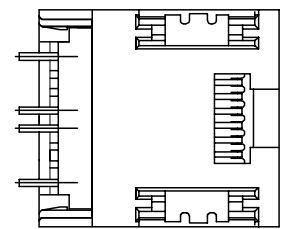
PC BOARD LAYOUT FOR 6 POSITION HOUSING (COMPONENT SIDE OF BOARD)



PC BOARD LAYOUT FOR 8 POSITION HOUSING (COMPONENT SIDE OF BOARD)



VIEW SHOWING TYPICAL TERMINAL CUTOFF OF TAIL (SEE NOTE 5) FOR VOIDED CIRCUITS.



TYPICAL VIEW SHOWING VOIDED CIRCUIT (CIRCUITS 2,3,6 & 7 SHOWN VOIDED)

|  |  |   |                                  |                                       |  |                    |
|--|--|---|----------------------------------|---------------------------------------|--|--------------------|
| SEE SHEET ONE<br>EC NO: UCP2004-0798<br>DRWN:LSCHMIDT 2004/01/05<br>CHKD:LSCHMIDT 2004/01/05<br>APPR:FSMITH 2004/01/08 | QUALITY SYMBOLS                                      | GENERAL TOLERANCES (UNLESS SPECIFIED)   | SCALE --- INCH                   | DESIGN UNITS INCH                     | THIRD ANGLE PROJECTION                           | REVISE ON CAD ONLY |
|  | ▼ = 0<br>▽ = 0                                       | 4 PLACES ± --- ± ---<br>3 PLACES ± --- ± .010<br>2 PLACES ± 0.25 ± .014<br>1 PLACE ± 0.36 ± ---<br>ANGULAR ± 1/2° | DIMENSION STYLE IN/MM            |                                       | TITLE  |                    |
|  |  |   | DRAWN BY PEARSON DATE 06/18/96   |                                       | SURFACE MOUNT MODULAR JACK<br>MOLEX INCORPORATED |                    |
|  |  |   | CHECKED BY PEARSON DATE 06/18/96 |                                       |  |                    |
| REV  | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | APPROVED BY EDGLEY DATE 06/18/96  | MATERIAL NO.                     | DOCUMENT NO. SEE TABLE SDA-43743-**** | SHEET NO. 2 OF 2                                 |                    |