

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0438410005

Status:

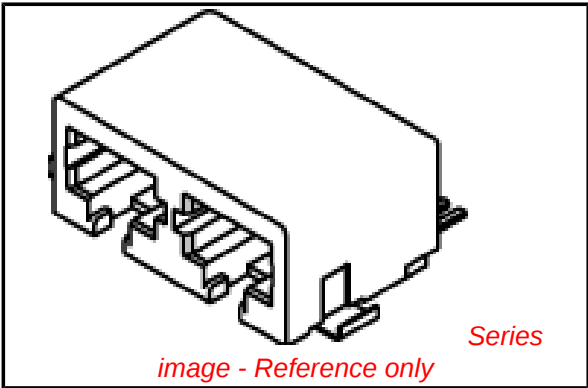
Active

Overview:

modular\_plugs\_jacks

Description:

Modular Jack, Right Angle, Low Profile, SMT, 6/6, 2 Ports



|               |                                           |
|---------------|-------------------------------------------|
| Documents:    |                                           |
| 3D Model      | Product Specification PS-43743-0001 (PDF) |
| Drawing (PDF) | RoHS Certificate of Compliance (PDF)      |

|                                |                                |
|--------------------------------|--------------------------------|
| Agency Certification           |                                |
| CSA                            | LR19980                        |
| UL                             | E107635                        |
| General                        |                                |
| Product Family                 | Modular Jacks/Plugs            |
| Series                         | 43841                          |
| Comments                       | Outboard Solder Tabs           |
| Component Type                 | PCB Jack                       |
| Magnetic                       | No                             |
| Overview                       | modular_plugs_jacks            |
| Performance Category           | 3, 4                           |
| Power over Ethernet (PoE)      | N/A                            |
| Product Name                   | RJ11                           |
| Physical                       |                                |
| Boot Color                     | N/A                            |
| 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 Locator                    | No                             |
| PCB Retention                  | Yes                            |
| Packaging Type                 | Embossed Tape on Reel          |
| Pitch - Mating Interface (in)  | 0.040 In                       |
| Pitch - Mating Interface (mm)  | 1.02 mm                        |
| Pitch - Term. Interface (in)   | 0.050 In                       |
| Pitch - Term. 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                          | 2                              |
| Positions / Loaded Contacts    | 6/6                            |
| Surface Mount Compatible (SMC) | Yes                            |
| Temperature Range - Operating  | -40°C to +70°C                 |
| Termination Interface: Style   | Surface Mount                  |
| Waterproof / Dustproof         | No                             |
| Wire/Cable Type                | N/A                            |
| Electrical                     |                                |

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](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

43841Series

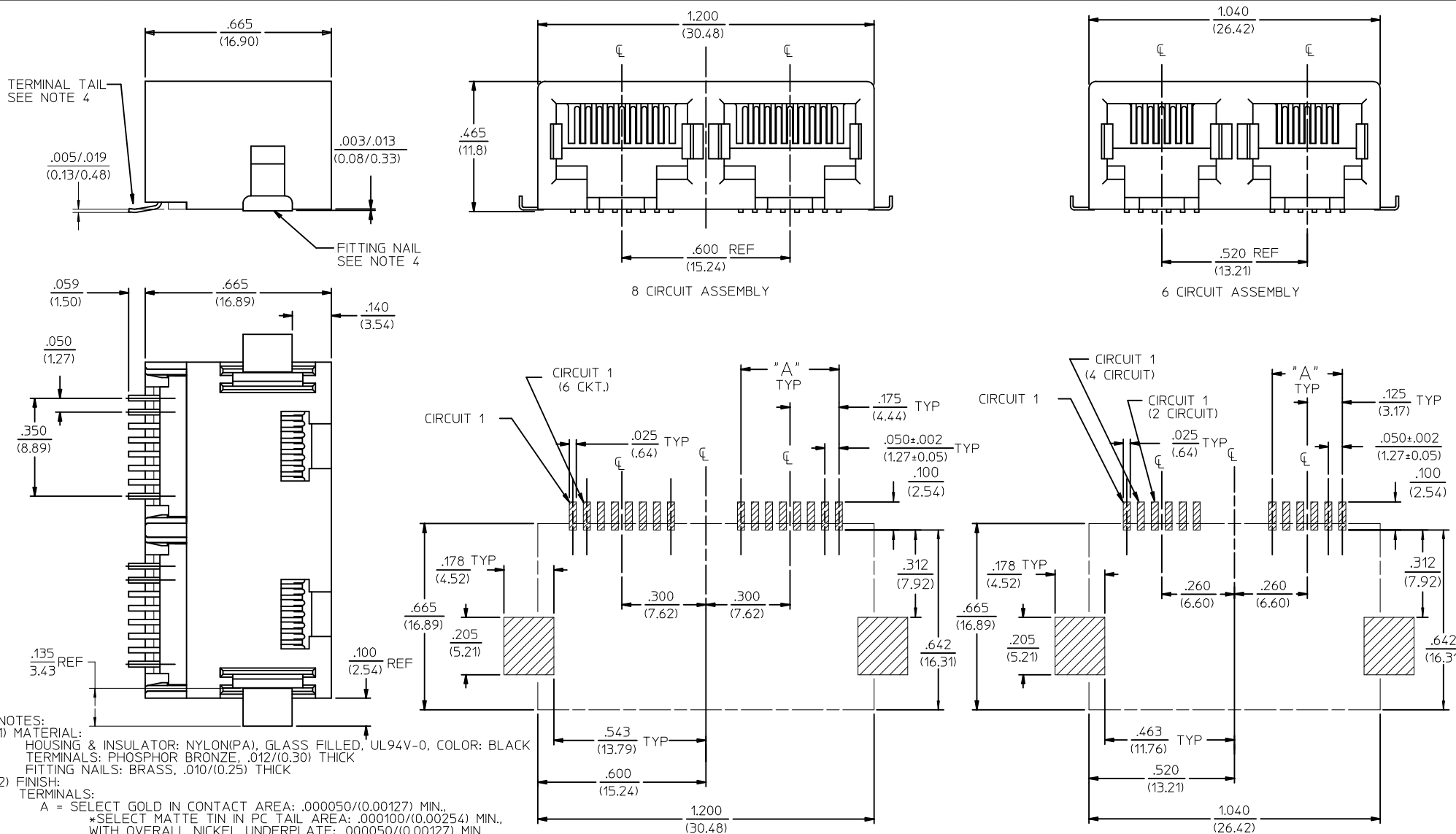
Mates With

FCC 68 Plugs

|                                    |                           |
|------------------------------------|---------------------------|
| Current - Maximum per Contact      | 1.5A                      |
| Shielded                           | No                        |
| Voltage - Maximum                  | 150V AC (RMS)             |
| <b>Solder Process Data</b>         |                           |
| Lead-free Process Capability       | Reflow Capable (SMT only) |
| Process Temperature max. C         | 235                       |
| <b>Material Info</b>               |                           |
| <b>Reference - Drawing Numbers</b> |                           |
| Packaging Specification            | PK-70873-700*             |
| Product Specification              | PS-43743-0001             |
| Sales Drawing                      | SD-43841-001              |

This document was generated on 06/07/2010

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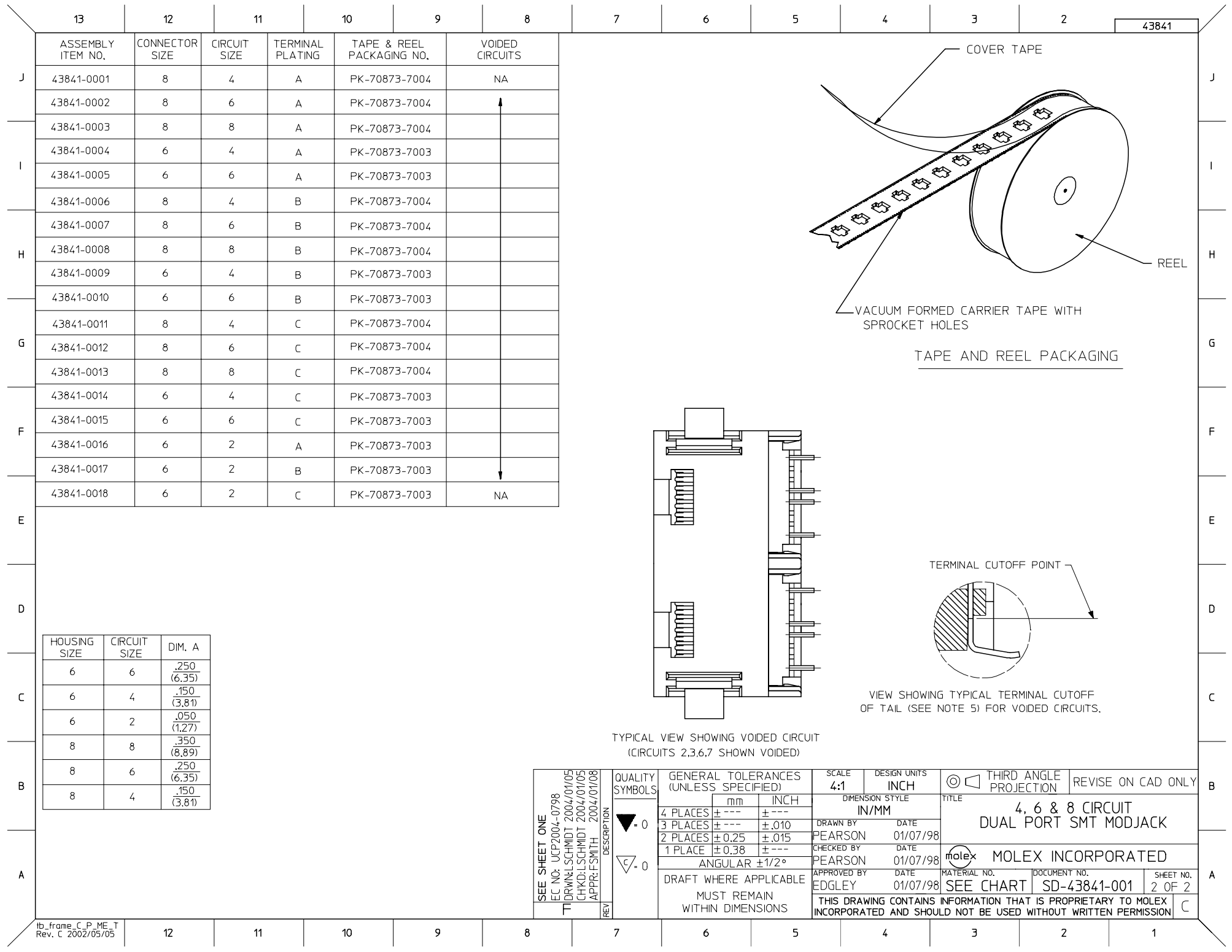


- NOTES:
- 1) MATERIAL:  
HOUSING & INSULATOR: NYLON(PA), GLASS FILLED, UL94V-0, COLOR: BLACK  
TERMINALS: PHOSPHOR BRONZE, .012/(0.30) THICK  
FITTING NAILS: BRASS, .010/(0.25) THICK
- 2) FINISH:  
TERMINALS:  
A = SELECT GOLD IN CONTACT AREA: .000050/(0.00127) MIN.  
\*SELECT MATTE TIN IN PC TAIL AREA: .000100/(0.00254) MIN.  
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) MIN.  
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) MIN.  
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.
- 3) PRODUCT SPECIFICATION AND PROCESSING PARAMETERS: PS-43743-0001.
- 4) PACKAGING SPECIFICATION:  
CONNECTOR ASSEMBLIES TO BE PACKAGED USING TAPE & REEL SYSTEM.
- 5) 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).
- 6) 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.
- 7) CONFORMS TO FCC REGULATION PART 68.5 FOR MODULAR JACKS.

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

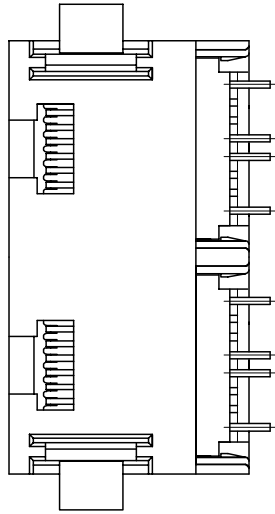
PC BOARD LAYOUT FOR  
6 POSITION HOUSING  
(COMPONENT SIDE OF BOARD)

|                                                                                                                                   |                               |             |                                                            |        |                          |                     |                  |                      |                        |                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------|------------------------------------------------------------|--------|--------------------------|---------------------|------------------|----------------------|------------------------|-------------------------------------------------------------------------------------------------------|
| REVISED NOTES<br>EC NO: WCP2009-12/44<br>DRAWN: JLOSTER/ER 2008/12/10<br>CHKD: J.BELL 2008/12/10<br>APPR: F33MTH 2008/12/10<br>G2 | QUALITY SYMBOLS<br>▽=0<br>▽=0 | DESCRIPTION | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |        | DIMENSION STYLE<br>IN/MM |                     | SCALE<br>1:1     | DESIGN UNITS<br>INCH | THIRD ANGLE PROJECTION | 4, 6 & 8 CIRCUIT<br>DUAL PORT SMT MODJACK<br><br>MOLEX INCORPORATED<br><br>SD-43841-001<br><br>1 OF 2 |
|                                                                                                                                   |                               |             |                                                            | mm     | INCH                     | DRAWN BY<br>PEARSON | DATE<br>01/07/97 | TITLE                |                        |                                                                                                       |
|                                                                                                                                   |                               |             | 4 PLACES ± ---                                             | ± ---  | CHECKED BY<br>MUELLER    | DATE<br>01/07/97    |                  |                      |                        |                                                                                                       |
|                                                                                                                                   |                               |             | 3 PLACES ± ---                                             | ± .010 | APPROVED BY<br>EDGLEY    | DATE<br>01/07/97    |                  |                      |                        |                                                                                                       |
|                                                                                                                                   |                               |             | 2 PLACES ± 0.25                                            | ± .015 | MATERIAL NO.             | DOCUMENT NO.        | SHEET NO.        |                      |                        |                                                                                                       |
|                                                                                                                                   |                               |             | 1 PLACE ± .38                                              | ± ---  | SEE SHEET 2              |                     |                  |                      |                        |                                                                                                       |
|                                                                                                                                   |                               |             | ANGULAR ±1/2°                                              |        |                          |                     |                  |                      |                        |                                                                                                       |
|                                                                                                                                   |                               |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        |                          |                     |                  |                      |                        |                                                                                                       |
|                                                                                                                                   |                               |             |                                                            |        |                          |                     |                  |                      |                        |                                                                                                       |
|                                                                                                                                   |                               |             |                                                            |        |                          |                     |                  |                      |                        |                                                                                                       |

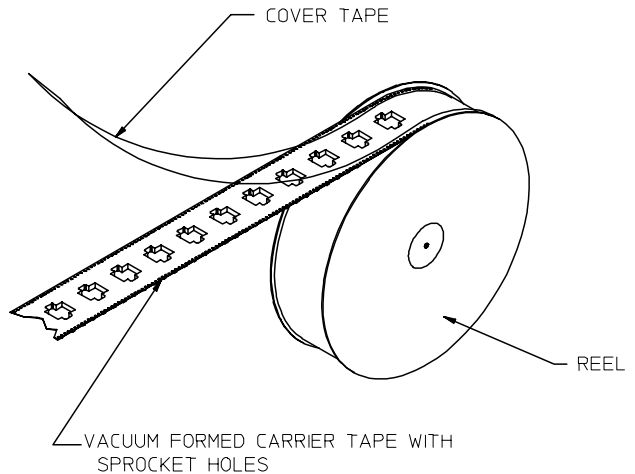


|   | 13                   | 12                | 11              | 10                  | 9                            | 8                  | 7 | 6 | 5 | 4 | 3 | 2 | 43841 |
|---|----------------------|-------------------|-----------------|---------------------|------------------------------|--------------------|---|---|---|---|---|---|-------|
|   | ASSEMBLY<br>ITEM NO. | CONNECTOR<br>SIZE | CIRCUIT<br>SIZE | TERMINAL<br>PLATING | TAPE & REEL<br>PACKAGING NO. | VOIDED<br>CIRCUITS |   |   |   |   |   |   |       |
| J | 43841-0001           | 8                 | 4               | A                   | PK-70873-7004                | NA                 |   |   |   |   |   |   |       |
|   | 43841-0002           | 8                 | 6               | A                   | PK-70873-7004                |                    |   |   |   |   |   |   |       |
|   | 43841-0003           | 8                 | 8               | A                   | PK-70873-7004                |                    |   |   |   |   |   |   |       |
| I | 43841-0004           | 6                 | 4               | A                   | PK-70873-7003                |                    |   |   |   |   |   |   |       |
|   | 43841-0005           | 6                 | 6               | A                   | PK-70873-7003                |                    |   |   |   |   |   |   |       |
|   | 43841-0006           | 8                 | 4               | B                   | PK-70873-7004                |                    |   |   |   |   |   |   |       |
| H | 43841-0007           | 8                 | 6               | B                   | PK-70873-7004                |                    |   |   |   |   |   |   |       |
|   | 43841-0008           | 8                 | 8               | B                   | PK-70873-7004                |                    |   |   |   |   |   |   |       |
|   | 43841-0009           | 6                 | 4               | B                   | PK-70873-7003                |                    |   |   |   |   |   |   |       |
|   | 43841-0010           | 6                 | 6               | B                   | PK-70873-7003                |                    |   |   |   |   |   |   |       |
| G | 43841-0011           | 8                 | 4               | C                   | PK-70873-7004                |                    |   |   |   |   |   |   |       |
|   | 43841-0012           | 8                 | 6               | C                   | PK-70873-7004                |                    |   |   |   |   |   |   |       |
|   | 43841-0013           | 8                 | 8               | C                   | PK-70873-7004                |                    |   |   |   |   |   |   |       |
|   | 43841-0014           | 6                 | 4               | C                   | PK-70873-7003                |                    |   |   |   |   |   |   |       |
| F | 43841-0015           | 6                 | 6               | C                   | PK-70873-7003                |                    |   |   |   |   |   |   |       |
|   | 43841-0016           | 6                 | 2               | A                   | PK-70873-7003                |                    |   |   |   |   |   |   |       |
|   | 43841-0017           | 6                 | 2               | B                   | PK-70873-7003                |                    |   |   |   |   |   |   |       |
|   | 43841-0018           | 6                 | 2               | C                   | PK-70873-7003                | NA                 |   |   |   |   |   |   |       |

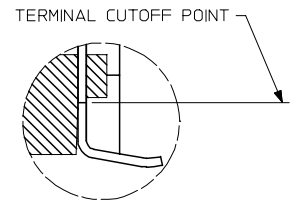
| HOUSING<br>SIZE | CIRCUIT<br>SIZE | DIM. A         |
|-----------------|-----------------|----------------|
| 6               | 6               | .250<br>(6.35) |
| 6               | 4               | .150<br>(3.81) |
| 6               | 2               | .050<br>(1.27) |
| 8               | 8    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



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



TAPE AND REEL PACKAGING



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

|                                                                                                                     |                                      |                                                                                                                                                                                                                                        |                                                                                                                                                                                                       |                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SEE SHEET ONE<br>EC NO: UCP2004-0798<br>TDRWNLSCMDT 2004/01/05<br>CHKD:LSCHMDT 2004/01/05<br>APPR:FSMITH 2004/01/08 | QUALITY<br>SYMBOLS<br>▽ = 0<br>▽ = 0 | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)<br>mm INCH<br>4 PLACES ± --- ± ---<br>3 PLACES ± --- ± .010<br>2 PLACES ± 0.25 ± .015<br>1 PLACE ± 0.38 ± ---<br>ANGULAR ± 1/2°<br>DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS | SCALE<br>4:1<br>DESIGN UNITS<br>INCH<br>DIMENSION STYLE<br>IN/MM<br>DRAWN BY<br>PEARSON<br>DATE<br>01/07/98<br>CHECKED BY<br>PEARSON<br>DATE<br>01/07/98<br>APPROVED BY<br>EDGLEY<br>DATE<br>01/07/98 | THIRD ANGLE<br>PROJECTION<br>REVISE ON CAD ONLY<br>TITLE<br>4, 6 & 8 CIRCUIT<br>DUAL PORT SMT MODJACK<br>MOLEX MOLEX INCORPORATED<br>MATERIAL NO.<br>DOCUMENT NO.<br>SD-43841-001<br>SHEET NO.<br>2 OF 2 |
|                                                                                                                     |                                      |                                                                                                                                                                                                                                        |                                                                                                                                                                                                       |                                                                                                                                                                                                          |
|                                                                                                                     |                                      |                                                                                                                                                                                                                                        |                                                                                                                                                                                                       |                                                                                                                                                                                                          |
|                                                                                                                     |                                      |                                                                                                                                                                                                                                        |                                                                                                                                                                                                       |                                                                                                                                                                                                          |

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

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