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**Part Number:** [0440500006](#)  
**Status:** **Active**  
**Overview:** [modular\\_plugs\\_jacks](#)  
**Description:** Modular Jack, Right Angle, Low Profile, 8/8

**Documents:**  
[3D Model](#) [Product Specification PS-44050-003 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

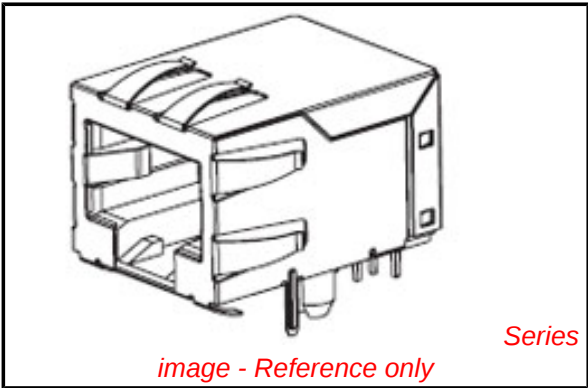
CSA LR19980  
UL E107635

**General**

Product Family Modular Jacks/Plugs  
Series [44050](#)  
Component Type PCB Jack  
Magnetic No  
Overview [modular\\_plugs\\_jacks](#)  
Performance Category 5  
Power over Ethernet (PoE) N/A  
Product Name RJ45

**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 Brass, Phosphor Bronze  
Material - Plating Mating Gold  
Material - Plating Termination Tin  
Material - Resin High Temperature Thermoplastic  
Orientation Right Angle (Side Entry)  
PCB Locator Yes  
PCB Retention Yes  
PCB Thickness Recommended (in) 0.062 In  
PCB Thickness Recommended (mm) 1.57 mm  
Packaging Type Tray  
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 1  
Positions / Loaded Contacts 8/8  
Surface Mount Compatible (SMC) Yes  
Temperature Range - Operating -40°C to +85°C  
Termination Interface: Style Through Hole  
Waterproof / Dustproof No  
Wire/Cable Type N/A



**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**  
[44050Series](#)

**Mates With**  
FCC 68 Plugs

**Electrical**

|                               |                                          |
|-------------------------------|------------------------------------------|
| Current - Maximum per Contact | 1.5A                                     |
| Grounding to Panel            | Location E, With All Panel Grounding Tab |
| Shielded                      | Yes                                      |
| Voltage - Maximum             | 150V AC (RMS)                            |

**Solder Process Data**

|                                                |                        |
|------------------------------------------------|------------------------|
| 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                    |

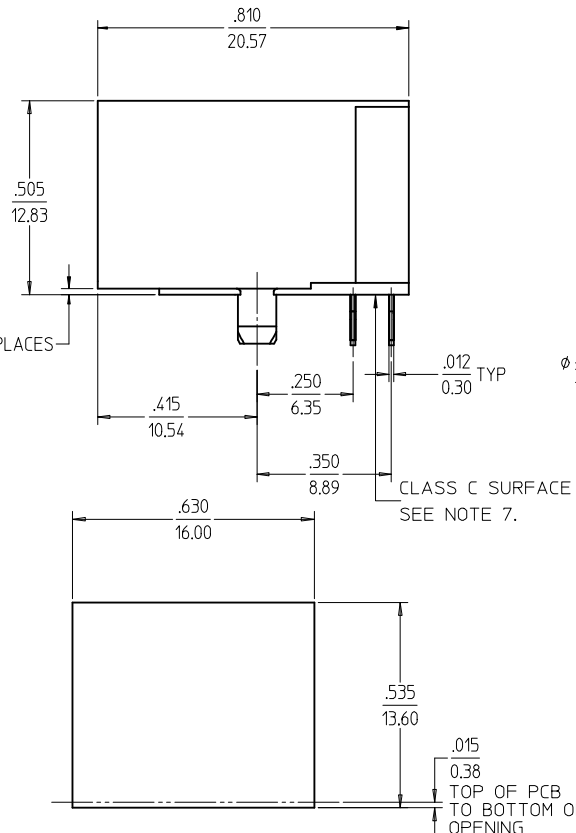
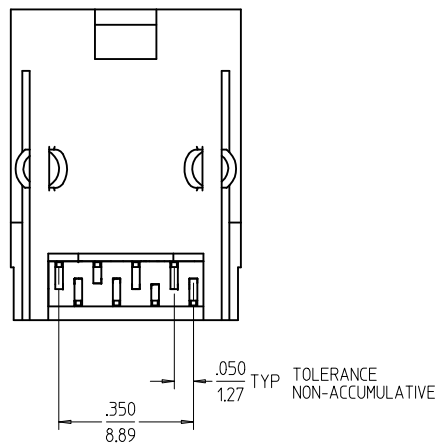
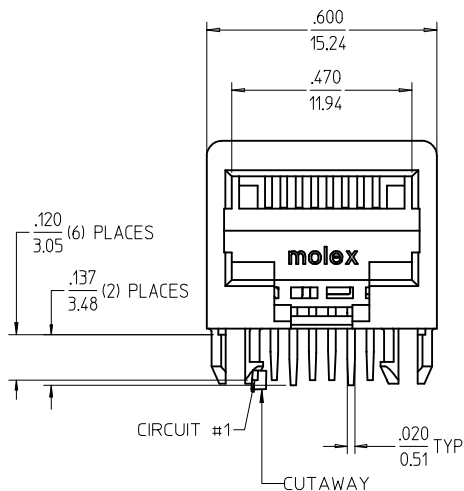
**Material Info**

**Reference - Drawing Numbers**

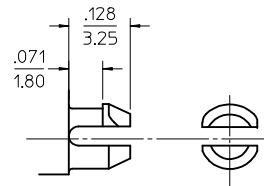
|                         |              |
|-------------------------|--------------|
| Packaging Specification | PK-44050-004 |
| Product Specification   | PS-44050-003 |
| Sales Drawing           | SD-44050-002 |
| Test Summary            | TS-44050-001 |

This document was generated on 06/07/2010

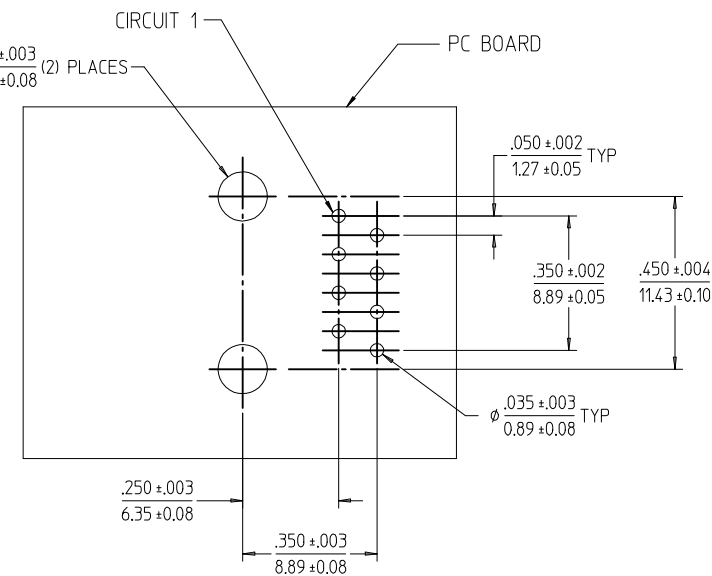
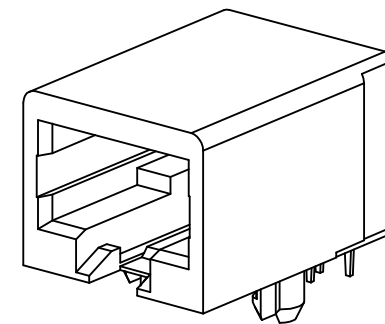
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RECOMMENDED PANEL  
OPENING



SNAP-FIT PEG  
SCALE: NTS



PCB LAYOUT: COMPONENT SIDE  
RECOMMENDED PCB THICKNESS: .062/1.57

#### NOTES:

- 1) MATERIAL:  
HOUSING: NYLON(PA), GLASS FILLED, UL94V-0, COLOR: BLACK  
TERMINALS: PHOSPHOR BRONZE
- 2) FINISH:  
TERMINALS:  
SELECT GOLD IN CONTACT AREA: 50 MICROINCHES / 1.27 MICROMETERS MIN.  
SELECT MATTE TIN IN PC TAIL AREA: 100 MICROINCHES / 2.54 MICROMETERS MIN.  
WITH OVERALL NICKEL UNDERPLATE: 50 MICROINCHES / 1.27 MICROMETERS MIN.
- 3) PRODUCT SPECIFICATION AND PROCESSING PARAMETERS: PS-44050-003.
- 4) PACKAGING SPECIFICATION:  
CONNECTOR ASSEMBLIES IN THERMOFORMED TRAYS PER MOLEX PACKAGING SPECIFICATION PK-44050-004.
- 5) MATES WITH: MODULAR PLUGS THAT CONFORM TO FCC REGULATION PART 68.5.
- 6) TERMINAL LENGTHS MAY BE DIFFERENT FROM TERMINAL TO TERMINAL.
- 7) THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002 WITH THE EXCEPTION OF THE SURFACE INDICATED, WHICH IS A CLASS C SURFACE.

MODIFY NOTE 2  
EC NO: UCP2009-3112  
DRWN: JAGULAR 2009/07/06  
CHKD: JELL 2009/07/06  
APPR: FSMITH 2009/07/07

QUALITY  
SYMBOLS  
▽=0  
▽=0

GENERAL TOLERANCES  
(UNLESS SPECIFIED)

|                | mm     | INCH    |
|----------------|--------|---------|
| 4 PLACES       | ± .005 | ± .0005 |
| 3 PLACES       | ± .005 | ± .0010 |
| 2 PLACES       | ± .025 | ± .001  |
| 1 PLACE        | ± .005 | ± .0005 |
| ANGULAR ± 1/2° |        |         |

DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

DIMENSION STYLE  
IN/MM

| DRAWN BY    | DATE     |
|-------------|----------|
| MARANTO     | 98/04/06 |
| CHECKED BY  | DATE     |
| ROBERTS     | 98/04/06 |
| APPROVED BY | DATE     |
| ROBERTS     | 98/04/06 |

MATERIAL NO.  
440500001

SCALE  
4:1

DESIGN UNITS  
INCH

THIRD ANGLE  
PROJECTION

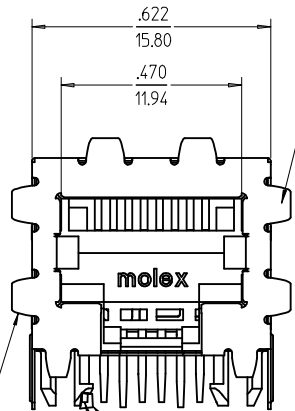
TITLE  
CATEGORY 5E MODULAR JACK  
ASSEMBLIES, SINGLE PORT

MOLEX INCORPORATED

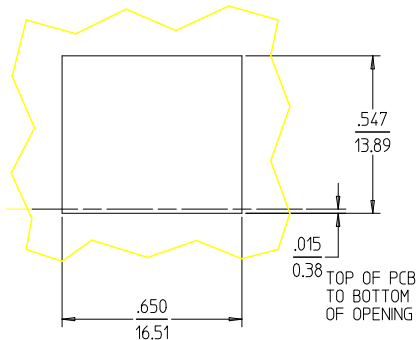
DOCUMENT NO.  
SD-44050-002

SHEET NO.  
1 OF 2

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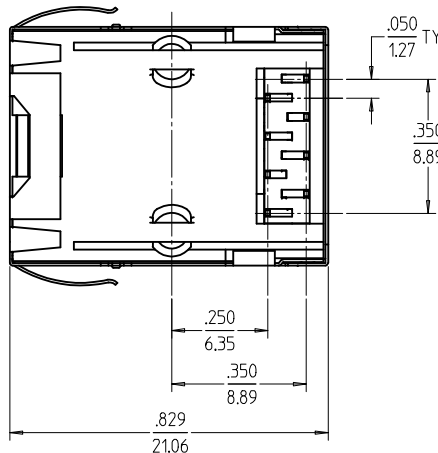


CIRCUIT #1  
OPTIONAL PANEL GROUND TABS  
SEE NOTE #6



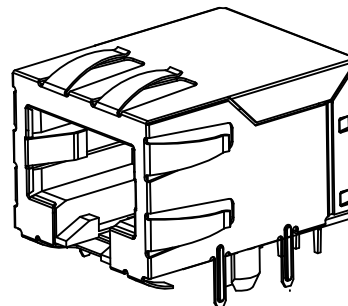
RECOMMENDED PANEL  
OPENING  
(SHIELDED VERSIONS)

FRONT PCB  
GROUND TAB  
OPTION

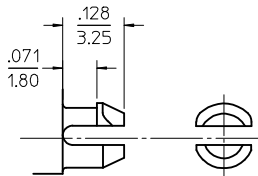


.080  
2.04  
RECOMMENDED POINT OF  
CONTACT WITH REAR  
OF CUSTOMER PANEL

PANEL GROUND TABS

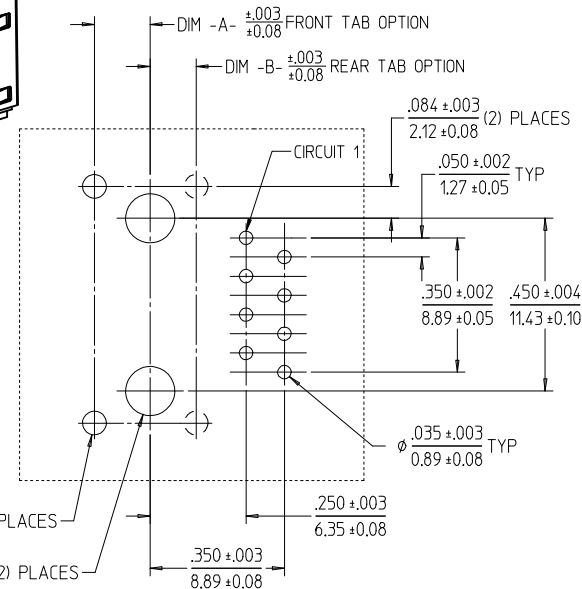


ISOMETRIC VIEW  
(NOT TO SCALE)



SNAP-FIT PEG  
SCALE: NTS

$\phi .062 \pm .003$   
1.57  $\pm 0.08$  (2) PLACES  
 $\phi .128 \pm .003$   
3.25  $\pm 0.08$  (2) PLACES



PCB LAYOUT: COMPONENT SIDE  
RECOMMENDED PCB THICKNESS: .062/1.57

#### NOTES:

- 1) MATERIAL:  
HOUSING: NYLON(PA), GLASS FILLED, UL94V-0, COLOR: BLACK  
TERMINALS: PHOSPHOR BRONZE  
SHIELD: BRASS
- 2) FINISH:  
TERMINALS:  
SELECT GOLD IN CONTACT AREA: 50 MICROINCHES / 1.27 MICROMETERS MIN.,  
\*SELECT TIN IN PC TAIL AREA: 100 MICROINCHES / 2.54 MICROMETERS MIN.,  
WITH OVERALL NICKEL UNDERPLATE: 50 MICROINCHES / 1.27 MICROMETERS MIN.  
SHIELD:  
\*100 MICROINCHES / 2.54 MICROMETERS NICKEL OVER 50 MICROINCHES /  
1.27 MICROMETERS COPPER UNDERPLATE, PCB GROUND TABS DIPPED IN TIN  
\*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 SHIELD.
- 3) PRODUCT SPECIFICATION AND PROCESSING PARAMETERS: PS-44050-003.
- 4) PACKAGING SPECIFICATION:  
CONNECTOR ASSEMBLIES IN THERMOFORMED TRAYS PER MOLEX PACKAGING  
SPECIFICATION PK-44050-004.
- 5) MATES WITH: MODULAR PLUGS THAT CONFORM TO FCC REGULATION PART 68.5.
- 6) AVAILABLE WITH THE (2) SPECIFIED PANEL GROUND TABS OMITTED FOR SIDE  
TO SIDE STACKABILITY, PER THE ASSEMBLY MATERIAL NUMBER TABLE.
- 7) TERMINAL LENGTHS MAY BE DIFFERENT FROM TERMINAL TO TERMINAL.
- 8) THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION  
PS-45499-002 WITH THE EXCEPTION OF THE SURFACE INDICATED, WHICH IS A  
CLASS C SURFACE.

| ASSEMBLY<br>MATERIAL NUM | DIM -A-   | DIM -B-   | PANEL GROUND<br>TAB OPTION |
|--------------------------|-----------|-----------|----------------------------|
| 440500007                | .120/3.05 | N/A       | ALL                        |
| 440500002                | .145/3.68 | N/A       | ALL                        |
| 440500006                | .180/4.57 | N/A       | ALL                        |
| 440500003                | N/A       | .120/3.05 | ALL                        |
| 440500009                | .120/3.05 | N/A       | SEE NOTE #6                |
| 440500004                | .145/3.68 | N/A       | SEE NOTE #6                |
| 440500008                | .180/4.57 | N/A       | SEE NOTE #6                |
| 440500005                | N/A       | .120/3.05 | SEE NOTE #6                |

SEE SHEET 1  
EC NO: UCP2009-3112  
DRWN:RAGULAR 2009/07/06  
CHKD:BELL 2009/07/06  
APPR:FSMTH 2009/07/07  
REV  
E2

QUALITY  
SYMBOLS  
▽=0  
▽=0

GENERAL TOLERANCES  
(UNLESS SPECIFIED)

|          | mm     | INCH   |
|----------|--------|--------|
| 4 PLACES | ± .005 | ± .001 |
| 3 PLACES | ± .005 | ± .001 |
| 2 PLACES | ± .005 | ± .001 |
| 1 PLACE  | ± .005 | ± .001 |

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

DIMENSION STYLE  
IN/MM

DRAWN BY  
MARANTO

DATE  
98/04/06

CHECKED BY  
ROBERTS

DATE  
98/04/06

APPROVED BY  
ROBERTS

DATE  
98/04/06

MATERIAL NO.  
SEE CHART

SIZE  
C

SCALE  
4:1

DESIGN UNITS  
INCH

THIRD ANGLE  
PROJECTION

CATEGORY 5E MODULAR JACK  
ASSEMBLIES, SINGLE PORT

MOLEX INCORPORATED

DOCUMENT NO.  
SD-44050-002

SHEET NO.  
2 OF 2

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- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
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- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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