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**Part Number:** [0440500003](#)  
**Status:** **Active**  
**Overview:** [modular\\_plugs\\_jacks](#)  
**Description:** Modular Jack, Right Angle, Low Profile, 8/8

**Documents:**

|                               |                                                          |
|-------------------------------|----------------------------------------------------------|
| <a href="#">3D Model</a>      | <a href="#">Product Specification PS-44050-003 (PDF)</a> |
| <a href="#">Drawing (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a>     |

**Agency Certification**

|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E107635 |

**General**

|                           |                                     |
|---------------------------|-------------------------------------|
| Product Family            | Modular Jacks/Plugs                 |
| Series                    | <a href="#">44050</a>               |
| Component Type            | PCB Jack                            |
| Magnetic                  | No                                  |
| Overview                  | <a href="#">modular_plugs_jacks</a> |
| 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               | 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                            |

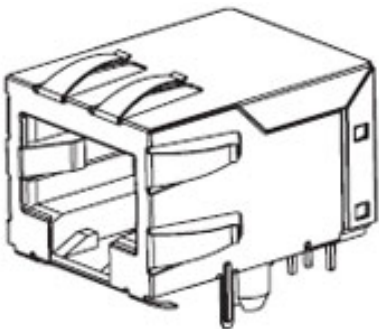


image - Reference only

Series

**EU RoHS**

**ELV and RoHS  
Compliant**  
**REACH SVHC**  
Not Reviewed  
**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 F, 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                    |

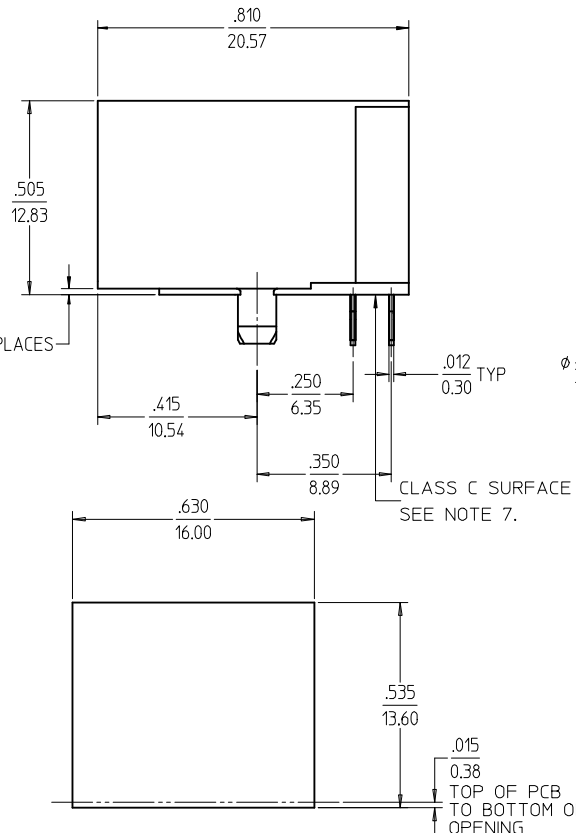
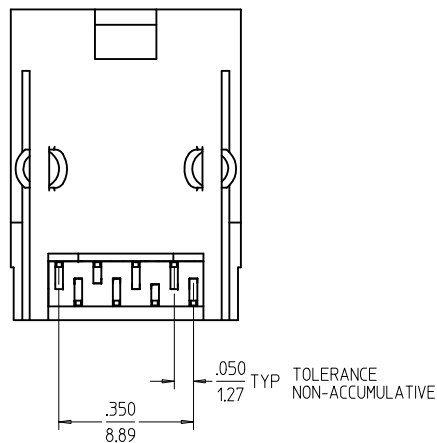
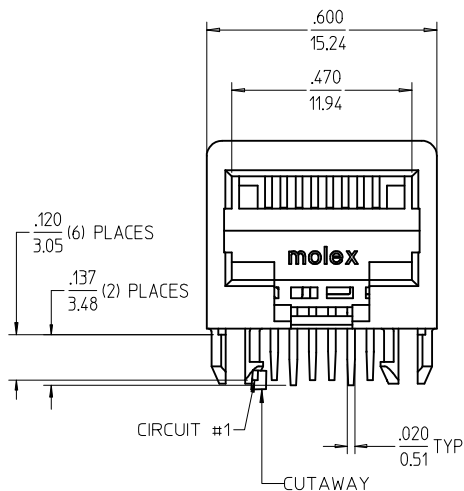
**Material Info**

**Reference - Drawing Numbers**

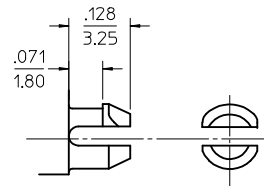
|                         |              |
|-------------------------|--------------|
| Packaging Specification | PK-44050-004 |
| Product Specification   | PS-44050-003 |
| Sales Drawing           | SD-44050-002 |
| Test Summary            | TS-44050-001 |

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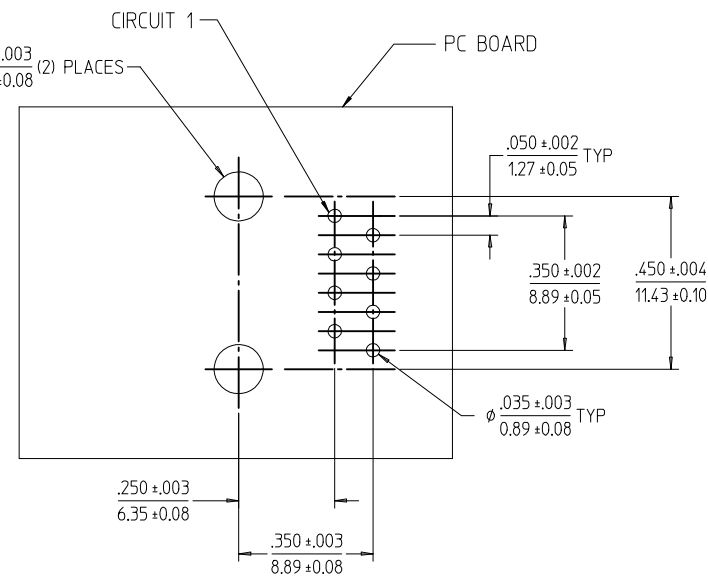
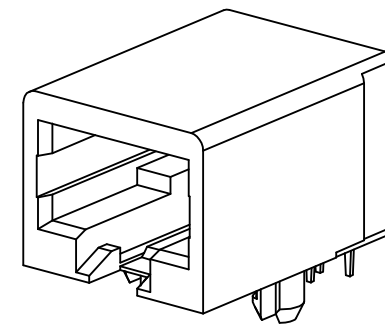
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RECOMMENDED PANEL  
OPENING



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: JBEL 2009/07/06  
APPR: FSMITH 2009/07/07  
REV E2

QUALITY SYMBOLS  
▽=0  
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

|                | mm     | INCH    |
|----------------|--------|---------|
| 4 PLACES       | ± .005 | ± .0004 |
| 3 PLACES       | ± .010 | ± .0008 |
| 2 PLACES       | ± .025 | ± .0010 |
| 1 PLACE        | ± .050 | ± .0020 |
| 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

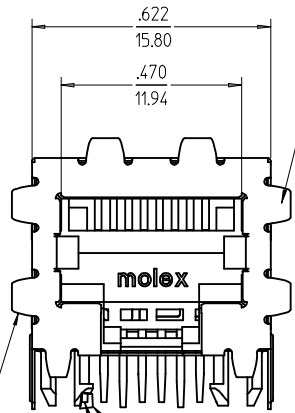
TITLE  
CATEGORY 5E MODULAR JACK  
ASSEMBLIES, SINGLE PORT

MOLEX INCORPORATED

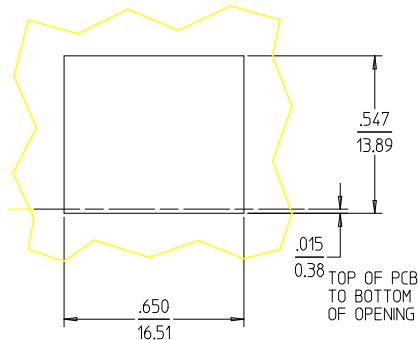
DOCUMENT NO.  
SD-44050-002

SHEET NO.  
1 OF 2

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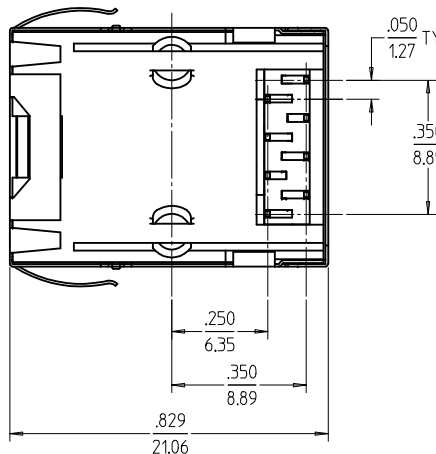


CIRCUIT #1  
OPTIONAL PANEL GROUND TABS  
SEE NOTE #6



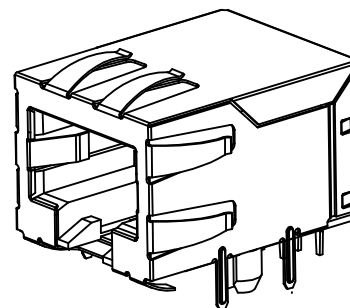
RECOMMENDED PANEL  
OPENING  
(SHIELDED VERSIONS)

FRONT PCB  
GROUND TAB  
OPTION

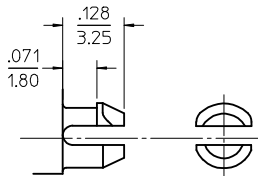


.080  
2.04  
RECOMMENDED POINT OF  
CONTACT WITH REAR  
OF CUSTOMER PANEL

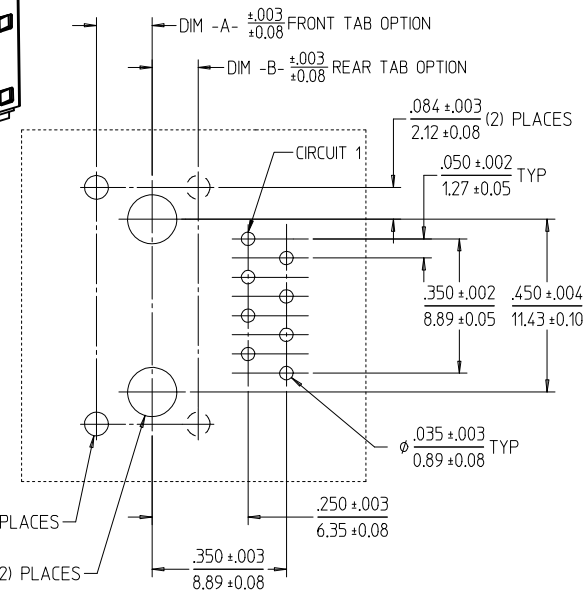
PANEL GROUND TABS



ISOMETRIC VIEW  
(NOT TO SCALE)



SNAP-FIT PEG  
SCALE: NTS



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  
E2

QUALITY  
SYMBOLS  
▽=0  
▽=0

GENERAL TOLERANCES  
(UNLESS SPECIFIED)

|          | mm    | INCH  |
|----------|-------|-------|
| 4 PLACES | ±---  | ±---  |
| 3 PLACES | ±---  | ±.010 |
| 2 PLACES | ±0.25 | ±---  |
| 1 PLACE  | ±---  | ±---  |

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.  
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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- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

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ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: [ocean@oceanchips.ru](mailto:ocean@oceanchips.ru)

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А