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Part Number:

0855425003

Status:

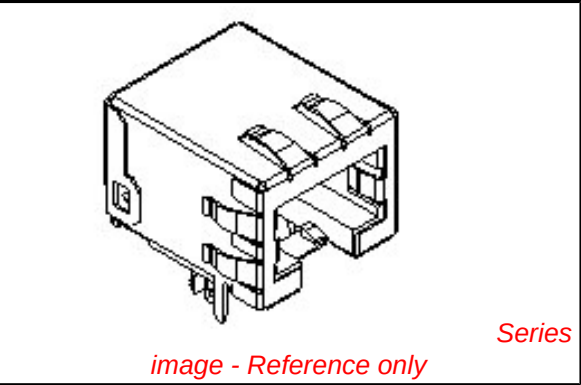
Active

Overview:

modular\_plugs\_jacks

Description:

Modular Jack, Right Angle, Low Profile, Shielded, 8/8



Documents:

3D Model

Application Specification (PDF)

Drawing (PDF)

Product Specification PS-95622-001 (PDF)

RoHS Certificate of Compliance (PDF)

| General                   |                               |
|---------------------------|-------------------------------|
| Product Family            | Modular Jacks/Plugs           |
| Series                    | 85542                         |
| Comments                  | Enhanced panel grounding tabs |
| Component Type            | PCB Jack                      |
| Magnetic                  | No                            |
| Overview                  | modular_plugs_jacks           |
| Performance Category      | 3                             |
| Power over Ethernet (PoE) | N/A                           |
| Product Name              | RJ45                          |

| Physical                       |                                |
|--------------------------------|--------------------------------|
| Boot Color                     | N/A                            |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 500                            |
| 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                 | 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)      | 50.8                           |
| Plating min: Mating (µm)       | 1.27                           |
| Plating min: Termination (µin) | 76                             |
| Plating min: Termination (µm)  | 1.9                            |
| Ports                          | 1                              |
| Positions / Loaded Contacts    | 8/8                            |
| Surface Mount Compatible (SMC) | Yes                            |
| Temperature Range - Operating  | -40°C to +80°C                 |
| Termination Interface: Style   | Surface Mount                  |
| Waterproof / Dustproof         | No                             |
| Wire/Cable Type                | N/A                            |

| Electrical                    |                              |
|-------------------------------|------------------------------|
| Current - Maximum per Contact | 1.5A                         |
| Grounding to Panel            | Additional Grounding Springs |

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Halogen-Free

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

85542Series

Mates With

FCC 68 Jacks

|                   |               |
|-------------------|---------------|
| Shielded          | Yes           |
| Voltage - Maximum | 125V AC (RMS) |

**Solder Process Data**

|                                                |                        |
|------------------------------------------------|------------------------|
| Duration at Max. Process Temperature (seconds) | 45                     |
| Lead-free Process Capability                   | Wave Capable (TH only) |
| Max. Cycles at Max. Process Temperature        | 1                      |
| Process Temperature max. C                     | 260                    |

**Material Info**

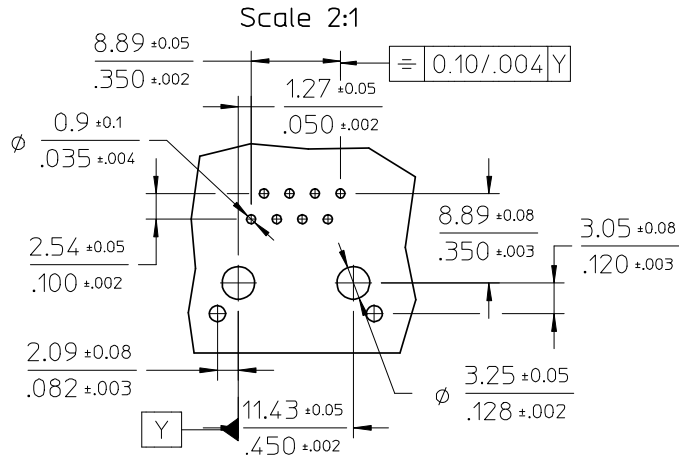
**Reference - Drawing Numbers**

|                         |              |
|-------------------------|--------------|
| Packaging Specification | PK-85542-003 |
| Product Specification   | PS-95622-001 |
| Sales Drawing           | SD-85542-503 |

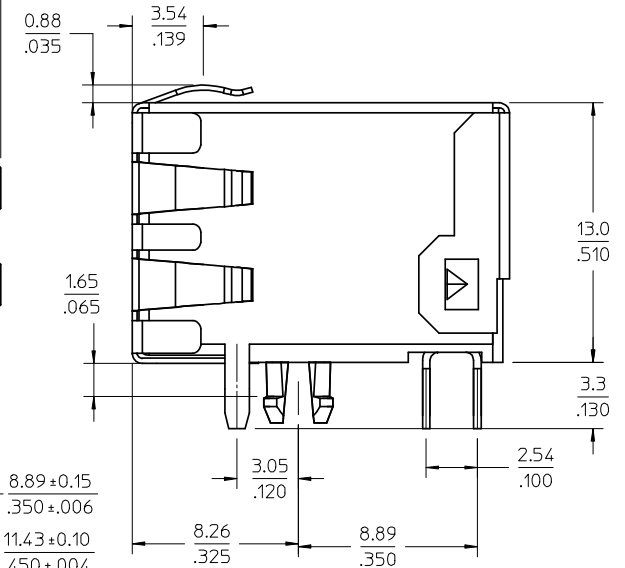
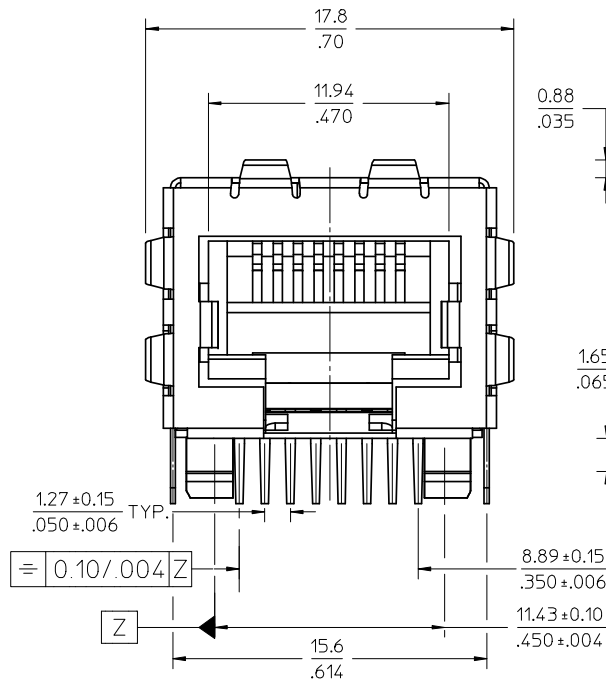
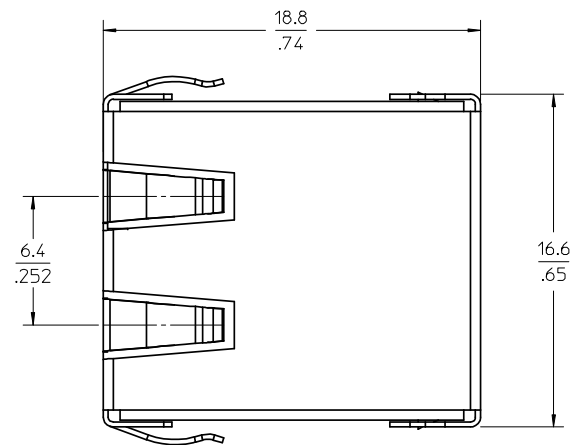
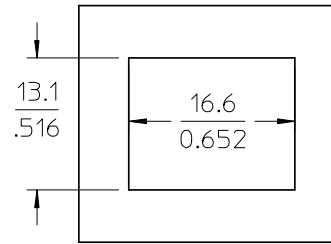
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# P.C.B. MOUNTING PATTERNS VIEW FROM COMPONENT SIDE



# SUGGESTED PANEL CUTOUT Scale 2:1



## TECHNICAL SPECIFICATIONS:

### MATERIAL:

HOUSING: LCP GLASS FILLED UL94V-0  
COLOR BLACK

TERMINAL: PHOSPHOR BRONZE PLATED WITH:  
0.00127/.000050 MIN GOLD IN CONTACT AREA  
0.00190/.000075 MIN PURE TIN IN TAIL AREA  
BOTH OVER 0.00127/.000050 MIN NICKEL OVERALL

SHIELD: BRASS PLATED WITH 0.0020/.000078 MIN PURE TIN

### NOTES:

- 1- JACK FOR MATING WITH RJ45 PLUG  
MOLEX 95043 SERIES
- 2- PRODUCT SPECIFICATION: PS-95622-001
- 3- PACKAGING SPECIFICATION PK-85542-003
- 4- PCB BOARD THICKNESS: 1.57/.062

|                                                                                                                       |             |                                                      |                                       |                                                                                                                               |                          |                        |                                                                                       |                           |                    |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------|---------------------------------------------------------------------------------------|---------------------------|--------------------|--|--|--|
| CORRECTED PRODUCT SPEC<br>EC NO: E2008-0405<br>DRWN:DBYRNES 2008/01/30<br>CHKD: 2008/01/30<br>APPR:EOMAHONY2008/01/31 | DESCRIPTION | QUALITY SYMBOLS<br><div>▽ - 0</div> <div>▽ - 0</div> | GENERAL TOLERANCES (UNLESS SPECIFIED) |                                                                                                                               | SCALE<br>4:1             | DESIGN UNITS<br>METRIC |  | THIRD ANGLE<br>PROJECTION | REVISE ON CAD ONLY |  |  |  |
|                                                                                                                       |             |                                                      |                                       |                                                                                                                               | DIMENSION STYLE<br>MM/IN |                        | TITLE<br>R/A FULLY SHIELDED<br>JACK 8/8 T/HOLE<br>W. FRONT SHIELD SPRINGS             |                           |                    |  |  |  |
|                                                                                                                       |             |                                                      |                                       |                                                                                                                               | DRAWN BY<br>DATE         |                        |                                                                                       |                           |                    |  |  |  |
|                                                                                                                       |             |                                                      | 4 PLACES ± --- ± ---                  |                                                                                                                               | 3 PLACES ± --- ± .10     |                        | DBYRNES 2006/09/05                                                                    |                           | MOLEX INCORPORATED |  |  |  |
|                                                                                                                       |             |                                                      | 2 PLACES ± 0.25 ± .14                 |                                                                                                                               | 1 PLACE ± 0.35 ± ---     |                        | CHECKED BY<br>DATE                                                                    |                           |                    |  |  |  |
| ANGULAR ± .5 °                                                                                                        |             | EOMAHONY 2006/09/06                                  |                                       | molex                                                                                                                         |                          |                        |                                                                                       |                           |                    |  |  |  |
| DRAFT WHERE APPLICABLE                                                                                                |             | APPROVED BY<br>DATE                                  |                                       | MATERIAL NO.                                                                                                                  |                          | DOCUMENT NO.           |                                                                                       | SHEET NO.                 |                    |  |  |  |
| MUST REMAIN<br>WITHIN DIMENSIONS                                                                                      |             | EOMAHONY 2006/09/06                                  |                                       | 85542-5003                                                                                                                    |                          | SD-85542-503           |                                                                                       | 1 OF 1                    |                    |  |  |  |
|                                                                                                                       |             |                                                      |                                       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                          |                        |                                                                                       | A3                        |                    |  |  |  |