

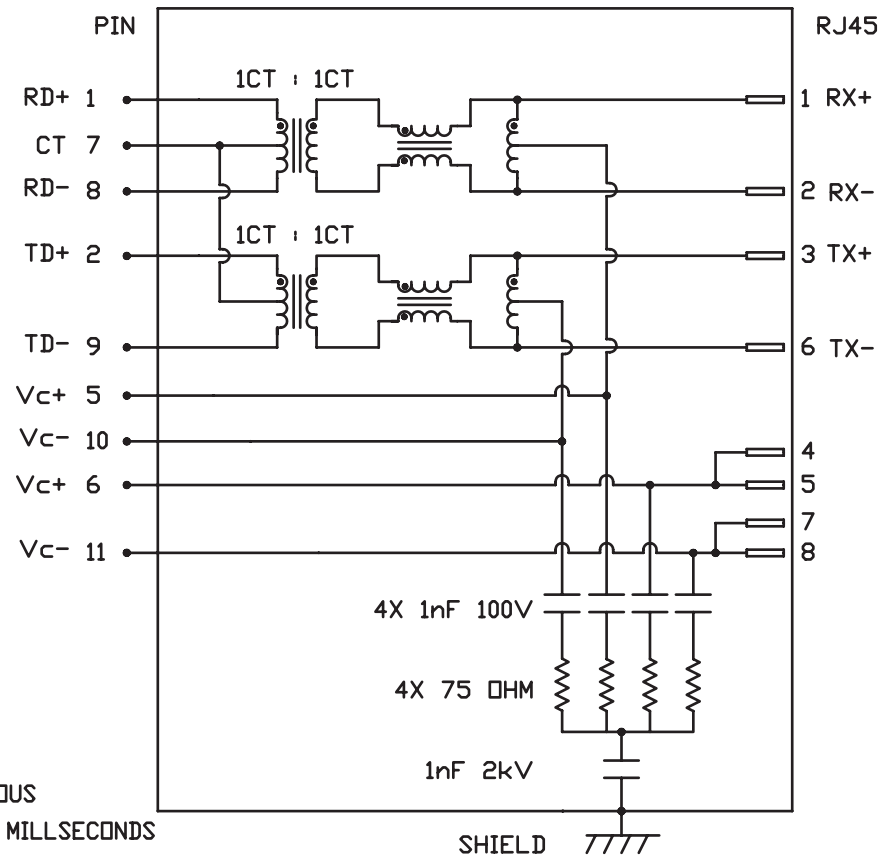
# INTEGRATED CONNECTOR MODULES

0813-1X4T-57-F Power over Ethernet MagJack® 1 x 4



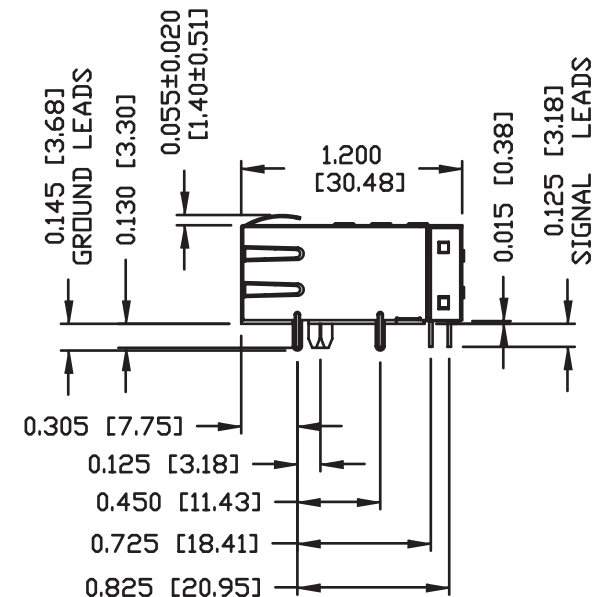
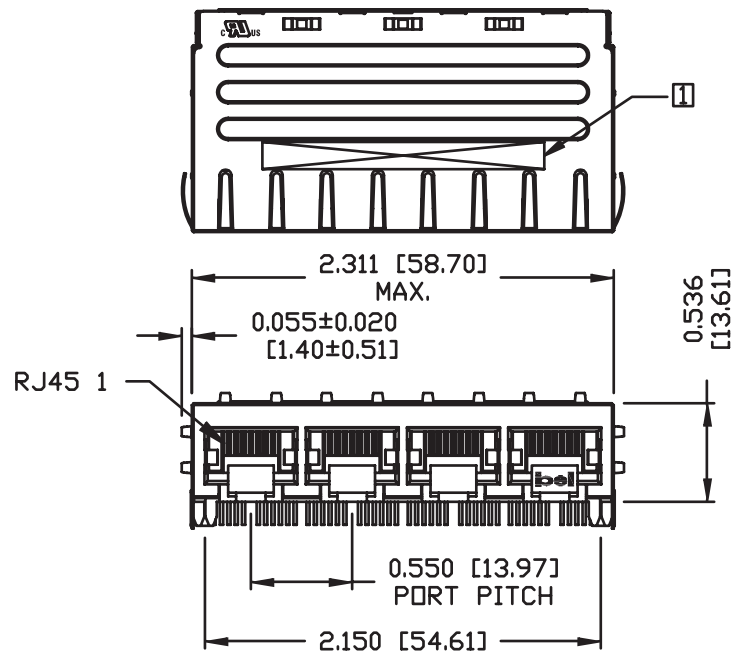
## ELECTRICAL CHARACTERISTICS @ 25°C

|                                                        |                                                                           |
|--------------------------------------------------------|---------------------------------------------------------------------------|
| URNS RATIO                                             | 1CT : 1CT ±2%                                                             |
| OCL @ 100kHz/100mVRMS<br>8mA DC BIAS                   | 350μH MIN.                                                                |
| INSERTION LOSS<br>100KHz TO 100MHz                     | -1.5 dB MAX.                                                              |
| RETURN LOSS (MIN.)<br>2MHz-30MHz<br>60MHz-80MHz        | 16 dB MIN.<br>10 dB MIN.                                                  |
| LEAKAGE INDUCTANCE<br>PRIMARY W/ SECONDARY SHORTED     | 0.25μH MAX. @ 1MHz                                                        |
| D.C. RESISTANCE<br>(1-8)=(2-9)<br>(RJ1-RJ2)=(RJ3-RJ6)  | 1.40 OHM MAX.<br>1.0 OHM MAX.                                             |
| INTERWINDING CAPACITANCE<br>PER CHANNEL (PRI. to SEC.) | 40 pF MAX.                                                                |
| CROSS TALK<br>100KHz - 100MHz                          | -30 dB MIN.                                                               |
| BALANCED DC LINE CURRENT                               | 350mA MAX. @ 57 VDC CONTINUOUS<br>500mA MAX. @ 57 VDC FOR 200 MILLSECONDS |
| HIPOT (ISOLATION VOLTAGE)                              | 2250 VDC                                                                  |



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## NOTES:

PLASTIC HOUSING: THERMOPLASTIC PBT  
FLAMMABILITY RATING UL 94V-0

CONTACTS PLATING: 50 MICRO-INCH HARD GOLD PLATING

PINS: TIN-COATED COPPER WIRE, DIA 0.018 INCH.

METAL SHIELD: NICKEL PLATED COPPER ALLOY.  
(ALL GROUND LEADS ARE SOLDER DIPPED)

1 MARK PART WITH MFG. LOGO, MFG. NAME, PART NUMBER, DATE CODE.

cULus UL RECOGNIZED - FILE #E196366 AND E169987.

RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC.

## INTEGRATED CONNECTOR MODULES

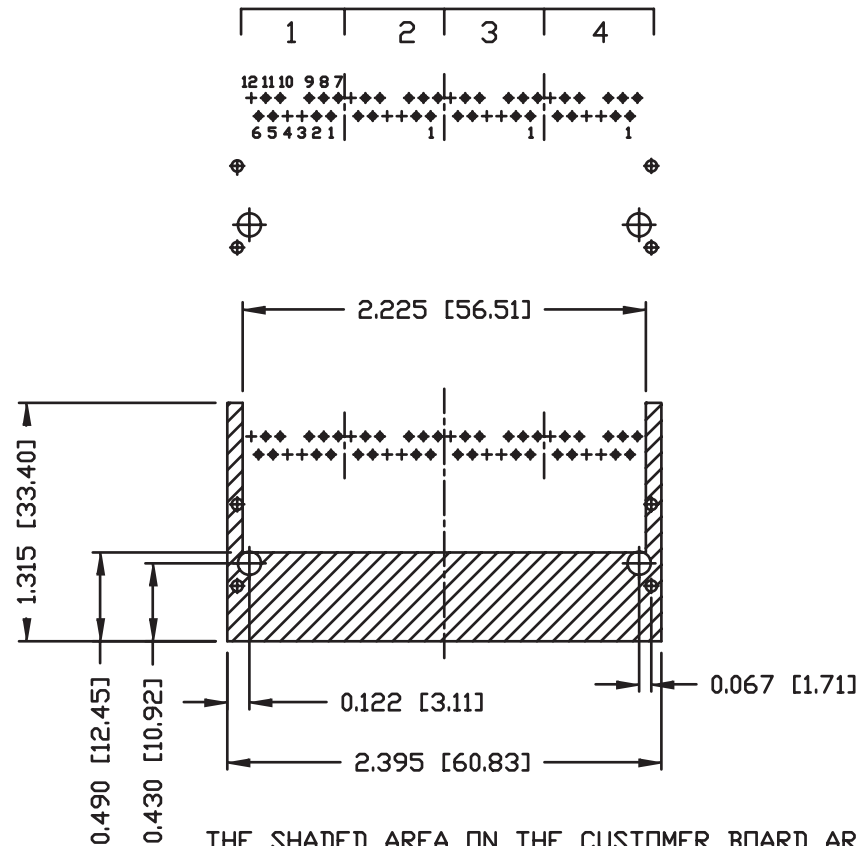
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PIN-OUT INFORMATION  
(COMPONENT SIDE VIEW)

|    |        |
|----|--------|
| 12 | NO PIN |
| 11 | VC-    |
| 10 | VC-    |
| 9  | TD-    |
| 8  | RD-    |
| 7  | CT     |
| 6  | VC+    |
| 5  | VC+    |
| 4  | NO PIN |
| 3  | NO PIN |
| 2  | TD+    |
| 1  | RD+    |

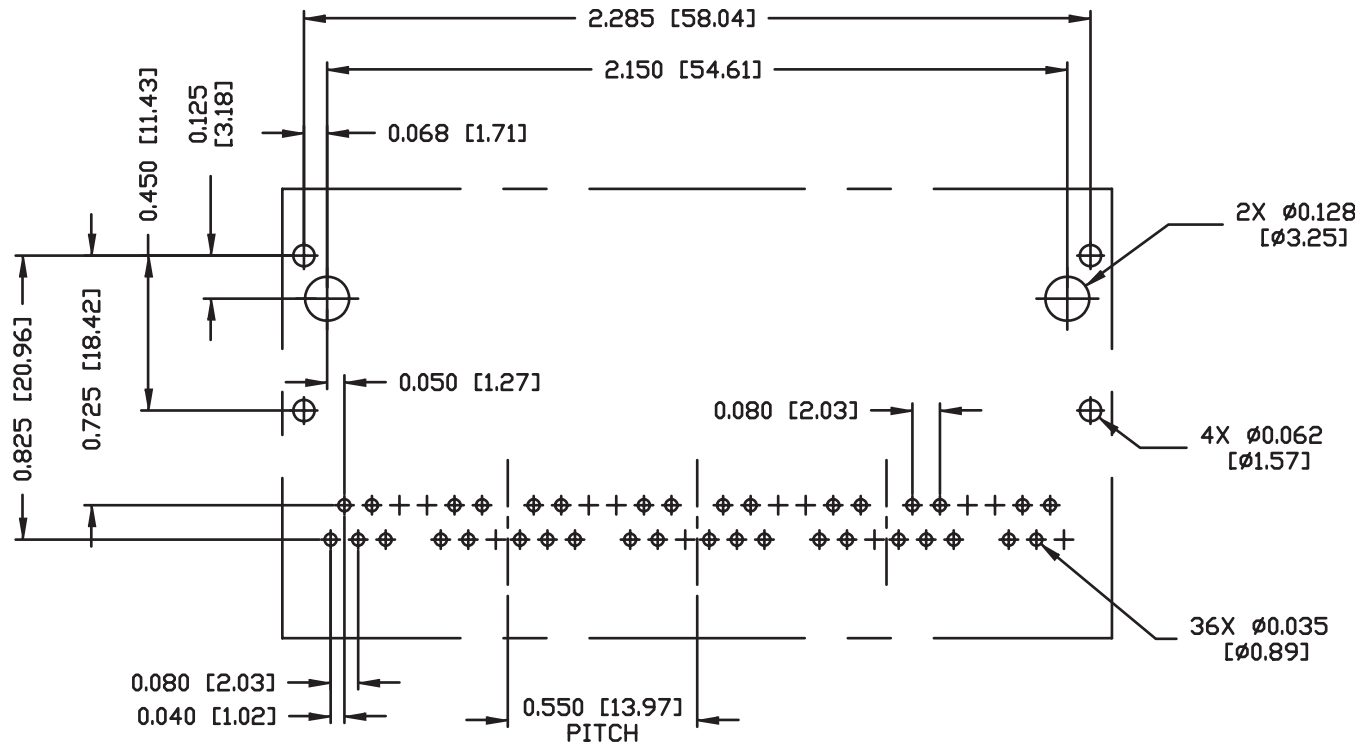
PIN AND PORT ASSIGNMENT  
(COMPONENT SIDE VIEW)



THE SHADED AREA ON THE CUSTOMER BOARD ARE RECOMMENDED  
TO BE CLEAR OFF ANY VIA HOLE OR COMPONENT PAD.

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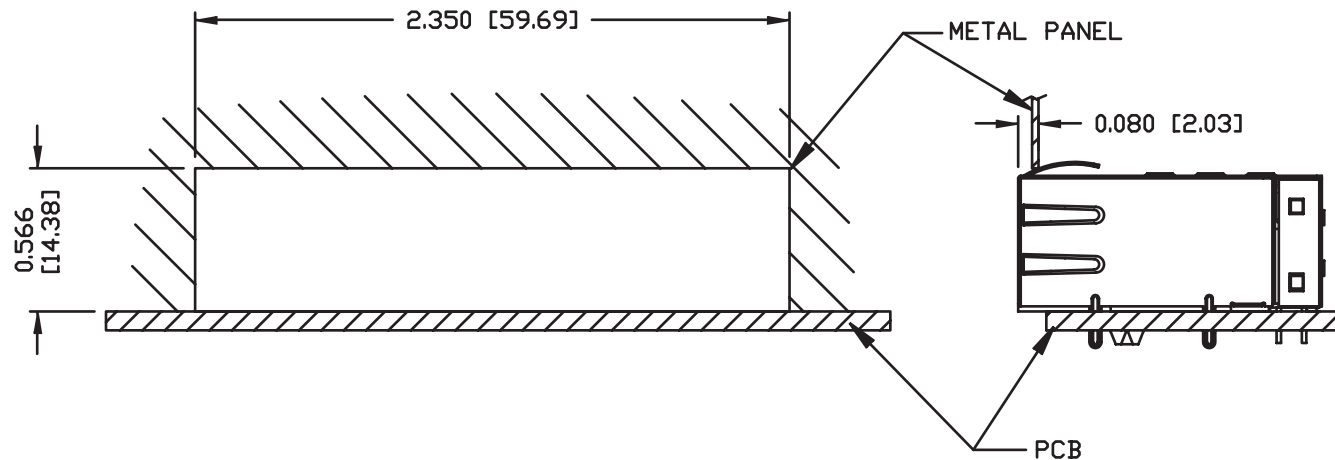
RECOMMENDED PCB FOOTPRINT  
(COMPONENT SIDE VIEW)

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### SUGGESTED PANEL OPENING



#### NOTES:

THE DISTANCE OF PANEL INSIDE SURFACE RELATIVE TO FRONT SURFACE OF PART IS ONLY A SUGGESTION. IN CASE THIS DISTANCE IS DIFFERENT, THE REQUIRED PANEL OPENING DIMENSIONS CHANGE ACCORDINGLY.

#### PACKING INFORMATION

PACKING TRAY: 0200-0148-37 (TOP)

0200-0148-38 (BOTTOM)

PACKING QUANTITY: 20 PCS FINISHED GOODS PER TRAY

8 TRAYS (160 PCS FINISHED GOODS) PER CARTON BOX

NOTE: CARDBOARDS ARE PLACED BETWEEN LAYERS OF PACKING TRAY INSIDE CARTON BOX  
(INCLUDE THE UPPERMOST AND LOWERMOST TRAY)

# Mouser Electronics

Authorized Distributor

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[0813-1X4T-57-F](#)