

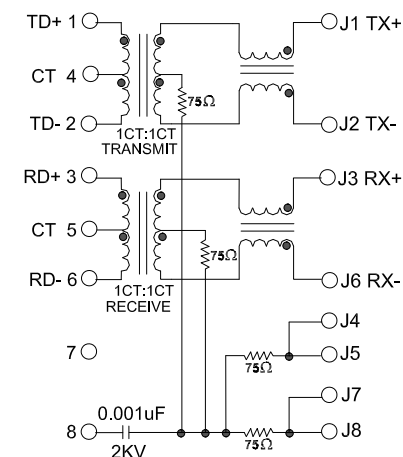
RoHS Compliant

| REV. | DESCRIPTION | SIGN        | DATE       |
|------|-------------|-------------|------------|
| A    | NEW         | RuoBiaoLing | 2021/03/23 |
|      |             |             |            |

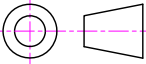
ELECTRICAL SPECIFICATIONS@25°C UNLESS OTHERWISE NOTED:

- 1.Turn Ratio(+/-2%):1CT:1CT
- 2.Inductance OCL:  
350uH Min @100KHz 0.1V DC BIAS 8mA
- 3.Insertion Loss:  
-1.0dB Max @1.0-100MHz
- 4.Return Loss:  
-20dB Min @1-30MHz  
-16dB Min @30-60MHz  
-12dB Min @60-80MHz
- 5.Cross talk:  
-40dB Min @1-30MHz  
-35dB Min @30-80MHz
- 6.Common Mode Rejection:  
-35dB Min @1-100MHz  
-20dB Min @50-150MHz
- 7.HIPOT TEST:1500Vrms 1mA.Max

SCHEMATICS:



Metal Shell :Copper Alloy, Finish: 30u" Nickel  
Housing:Thermoplastic,PBT,UL 94V-0,Black  
Insert :Thermoplastic,PBT,UL 94V-0,Black  
Contact Terminal/phosphor Bronze  
6u" Gold on Contact Area, 100u" Tin on Solder,  
Both over 50u" Nickel Under-Plated  
Coil Base :Phenolic,PBT,UL 94V-0,Black  
Terminal/Copper Alloy T=0.40X0.40mm Thickness  
Meets or exceeds IEEE 802.3 standard for 10/100 Base-TX  
350uH minimum OCL with 8mA Bias current  
Available with or without LEDs  
Minimum 1500Vrms isolation per IEEE802.3 requirement  
Operating temperature 0°C to +70°C  
Storage temperature -40°C to +85°C

|                                          |       |        |                                                                                                                                |  |                    |  |                                                                     |            |                               |  |
|------------------------------------------|-------|--------|--------------------------------------------------------------------------------------------------------------------------------|--|--------------------|--|---------------------------------------------------------------------|------------|-------------------------------|--|
| GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |       |        | DRAWN BY<br>RuoBiaoLing                                                                                                        |  | DATE<br>2021/03/23 |  | TITLE: RJ45 Connector With Transformer<br>100Base Tab-down 1x1 Port |            |                               |  |
| ITEM                                     | MM    | INCH   | CHECKED BY<br>/                                                                                                                |  | DATE               |  |                                                                     |            |                               |  |
| 3 PLACE                                  | ±0.05 | ±0.005 | APPROVED BY                                                                                                                    |  | DATE               |  |                                                                     |            |                               |  |
| 2 PLACE                                  | ±0.10 | ±0.01  | ANGLE OF PROJECTION<br>                   |  |                    |  |                                                                     | SIZE<br>A4 | PART NO.<br>ERJ08F1B1N12129ST |  |
| 1 PLACE                                  | ±0.20 | ±0.015 |                                                                                                                                |  |                    |  |                                                                     | SCALE      | N/A                           |  |
| 0 PLACE                                  | ±0.30 | ±0.02  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO EDOM<br>INCORPORATED AND SHOULD NOT BE USE WITHOUT WRITTEN PERMISSION |  |                    |  |                                                                     |            |                               |  |
| ANGULAR ± 2°                             |       |        |                                                                                                                                |  |                    |  |                                                                     |            |                               |  |
| METRIC                                   |       | U.S.   |                                                                                                                                |  |                    |  |                                                                     |            |                               |  |
| MM                                       |       | INCHES | REV. A                                                                                                                         |  |                    |  |                                                                     |            |                               |  |