

## RJ-45

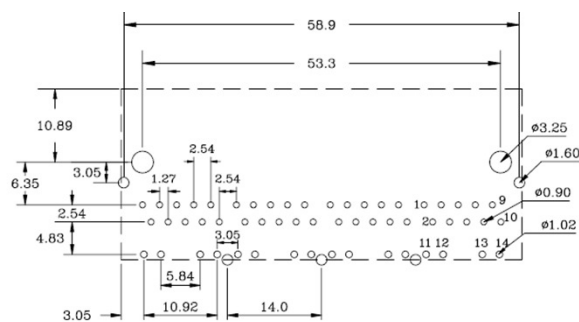
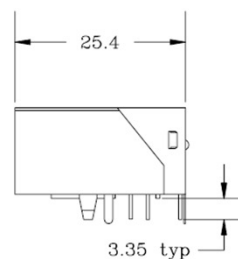
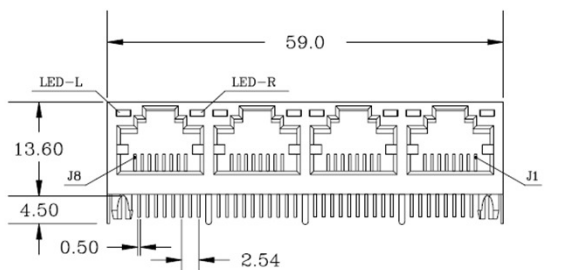
## 1000 Base-TX 4 Ports with LED

8328

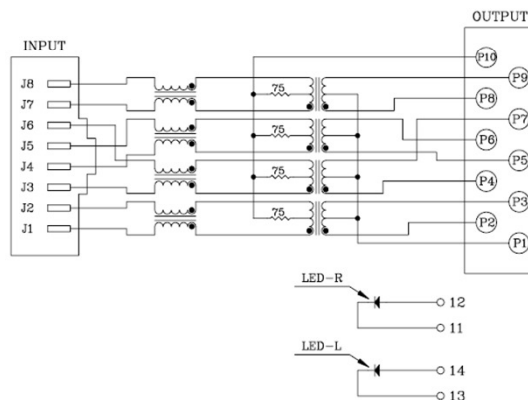
- RJ-45 connector integrated with XFMR impedance resistor/high voltage capacitor
- Meets IEEE 802.3 and ANSI X3.263 requirements including 350 $\mu$ H OCL with 8mA DC bias
- Reduced EMI radiation and improved EMI performance
- Contacting Plating: 6u-inch gold flashed



### Mechanical and Schematic (All dimensions in millimetres)



PCB LAYOUT - component side view



SCHEMATIC

### ELECTRICAL SPECIFICATION @ 25°C

| Turns Ratio<br>( $\pm 3\%$ )                                             | DCR<br>( $\Omega$ MAX)                      | Inductance <sup>1</sup><br>( $\mu$ H MIN) | $L_L$ <sup>2</sup><br>( $\mu$ H MAX)                                                         | Return Loss<br>(dB MIN) |              | Insertion Loss<br>(dB TYP) | Crosstalk<br>(dB TYP) | CCMA<br>(dB TYP) | Hipot <sup>3</sup><br>(VAC)                                                          |
|--------------------------------------------------------------------------|---------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------|--------------|----------------------------|-----------------------|------------------|--------------------------------------------------------------------------------------|
| (P3-P2):(J2-J1)<br>(P7-P4):(J6-J3)<br>(P6-P5):(J5-J4)<br>(P9-P8):(J8-J7) | (J6-J3)=<br>(J1-J2)=<br>(J4-J5)=<br>(J7-J8) | (P3-P2)=(P7-P4)<br>(P6-P5)=(P9-P8)        | (P3-P2), short J2-J1<br>(P7-P4), short J6-J3<br>(P6-P5), short J5-J4<br>(P9-P8), short J8-J7 | 1-30<br>MHz             | 30-80<br>MHz | 0.1-100 MHz                | 1-100MHz              | 1-100MHz         | (J1-J2) to (P2-P3)<br>(J5-J4) to (P6-P5)<br>(J3-J6) to (P7-P4)<br>(J8-J7) to (P9-P8) |
| 1CT:1CT                                                                  | 1.2                                         | 350                                       | 0.3                                                                                          | -18                     | -12          | -1.1                       | -30.0                 | -35.0            | 1500                                                                                 |

1. Inductance @ 0.01V, 100kHz, 8mADC Bias

2. Leakage Inductance @ 1MHz

3. Hipot @ 1.0mA, 1sec