

# 10/100Base-TX Interface Module for NIC/HUB Applications

## EPF8119SE

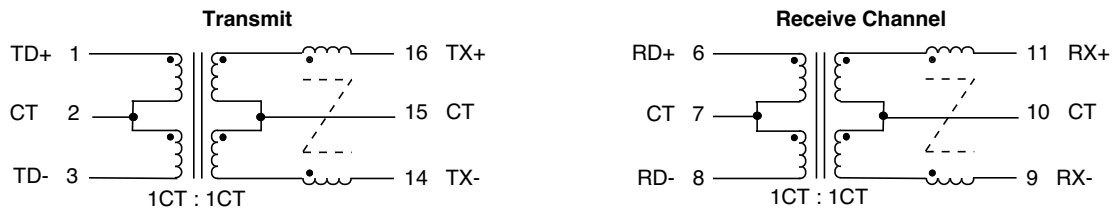
- Robust construction allows for toughest soldering processes
- Guaranteed to operate with 8 mA DC bias at 70°C on Cable Side
- Complies with or exceeds IEEE 802.3, 10/100Base-TX Standards
- Operating Temperature : -40°C to +85°C
- 1500 Vrms Isolation

### Electrical Parameters @ 25° C

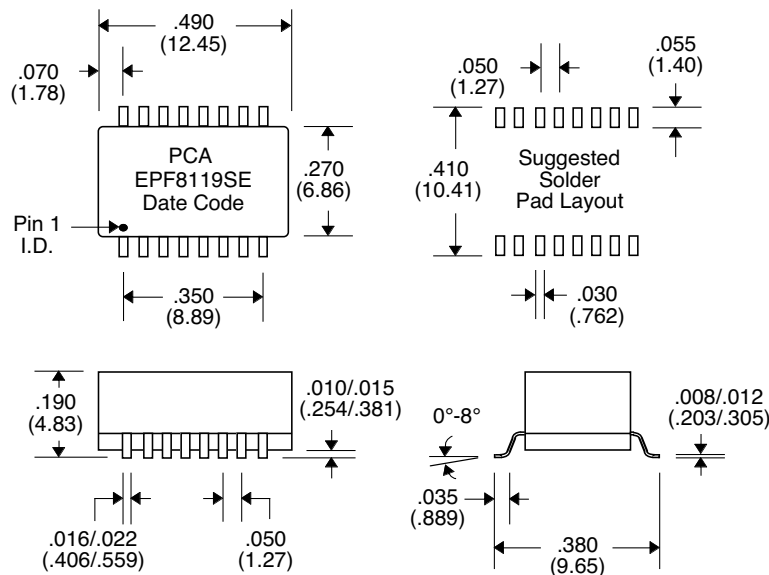
| OCL<br>@ 70°C                     | Insertion Loss<br>(dB Max.) |              | Return Loss<br>(dB Min.) |              |               | Common Mode Rejection<br>(dB Min.) |               |                | Crosstalk<br>(dB Min.)<br>Between Channels |               |
|-----------------------------------|-----------------------------|--------------|--------------------------|--------------|---------------|------------------------------------|---------------|----------------|--------------------------------------------|---------------|
|                                   | 1-80<br>MHz                 | @ 100<br>MHz | 1-30<br>MHz              | 30-60<br>MHz | 60-100<br>MHz | 1-30<br>MHz                        | 30-100<br>MHz | 100-500<br>MHz | 1-10<br>MHz                                | 10-100<br>MHz |
| 100 KHz, 0.1 Vrms<br>8 mA DC Bias |                             |              |                          |              |               |                                    |               |                |                                            |               |
| <b>Cable Side</b>                 | Xmit/Rcv                    | Xmit/Rcv     | Xmit/Rcv                 | Xmit/Rcv     | Xmit/Rcv      | Xmit/Rcv                           | Xmit/Rcv      | Xmit/Rcv       |                                            |               |
| 350 $\mu$ H                       | -1/-1                       | -1.5/-1.5    | -18/-18                  | -12/-12      | -10/-10       | -40/-40                            | -30/-30       | -10/-10        | -40                                        | -35           |

• Impedance : 100  $\Omega$  Xmit / 100  $\Omega$  Rcv • Rise Time : 3.0 nS Max. •

### Schematic



### Package



Unless Otherwise Specified Dimensions are in Inches /mm  $\pm .010 / .25$