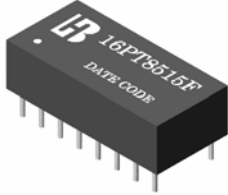


**10/100 BASE-T TRANSFORMER**

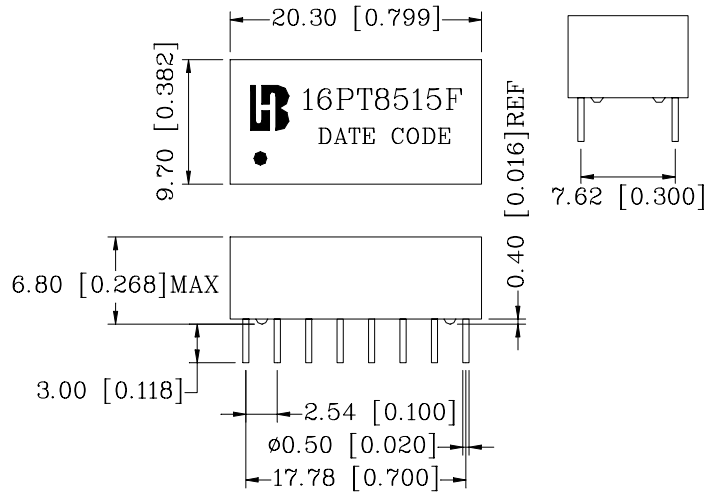
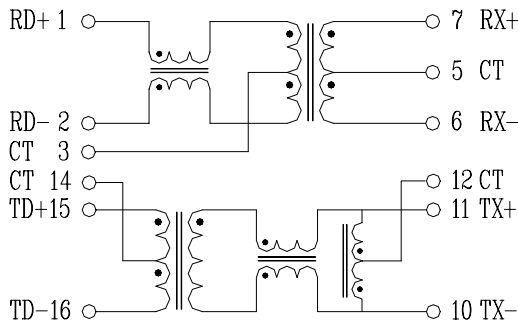
**P/N:16PT8515F DATA SHEET**

**Feature**



- Designed for 10/100 MB/s transmission over UTP-5 cable.
- Tested & qualified for use with national semiconductor's DP83840 Ethernet 10/100 PHY chip.
- Cable interface for isolation and low common mode emissions.
- 16-PIN DIP package for economic cost.
- Operating Temperature range: 0°C to +70°C.
- Storage temperature range: -25°C to +125°C.

| Electrical Specifications @ 25°C |                         |                      |                           |       |       |            |                     |           |                     |         |         |
|----------------------------------|-------------------------|----------------------|---------------------------|-------|-------|------------|---------------------|-----------|---------------------|---------|---------|
| Part Number                      | Turns Ratio (±5%)       |                      | Rise Time (10-90%) nS TYP |       |       |            | HI-POT (Vrms)       |           |                     |         |         |
|                                  | TX                      | RX                   |                           |       |       |            |                     |           |                     |         |         |
| 16PT8515F                        | 1CT:1                   | 1CT:1CT              | 2.5                       |       |       |            | 1500                |           |                     |         |         |
| Continue                         |                         |                      |                           |       |       |            |                     |           |                     |         |         |
| Part Number                      | Insertion Loss (dB Max) | Return Loss (dB Min) |                           |       |       |            | Cross talk (dB Min) |           | DCMR (dB Min) TX/RX |         |         |
|                                  | 0.3 - 100 MHz           | 30MHz                | 40MHz                     | 50MHz | 60MHz | 80MHz      | 0.3-60MHz           | 60-100MHz | 30MHz               | 60MHz   | 100MHz  |
| 16PT8515F                        | -1.15                   | -16                  | -14                       | -13.5 | -13   | -12        | -45                 | -35       | -42/-40             | -35/-30 | -28/-25 |
| Schematic                        |                         |                      |                           |       |       | Mechanical |                     |           |                     |         |         |



Units: mm [Inches]  
 Tolerances: xx.x0±0.25 [0.010]  
 0.xx±0.05 [0.002]