

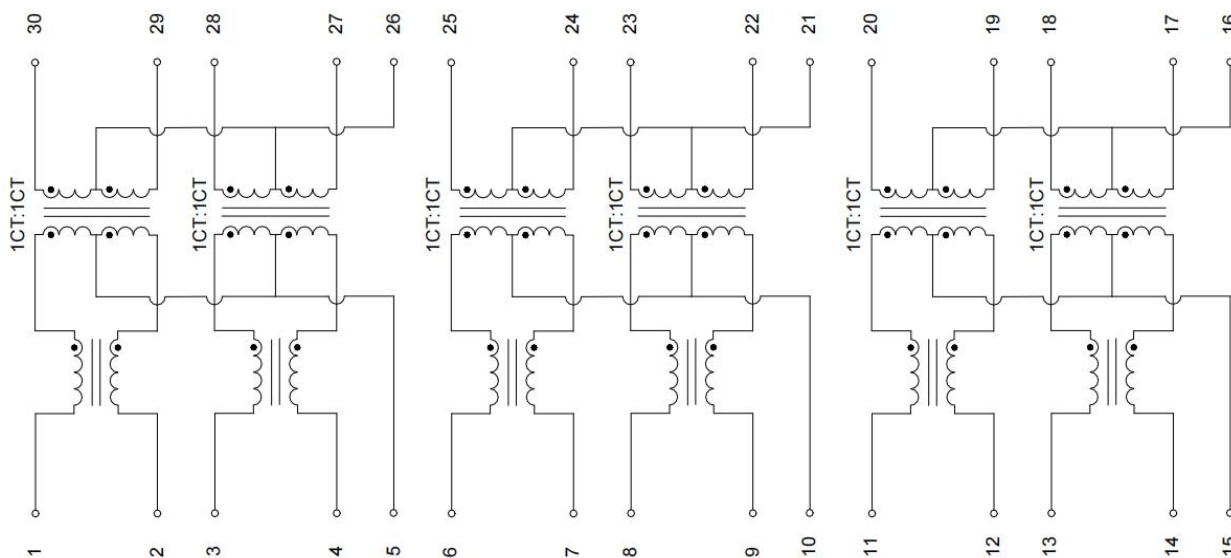
## Features:

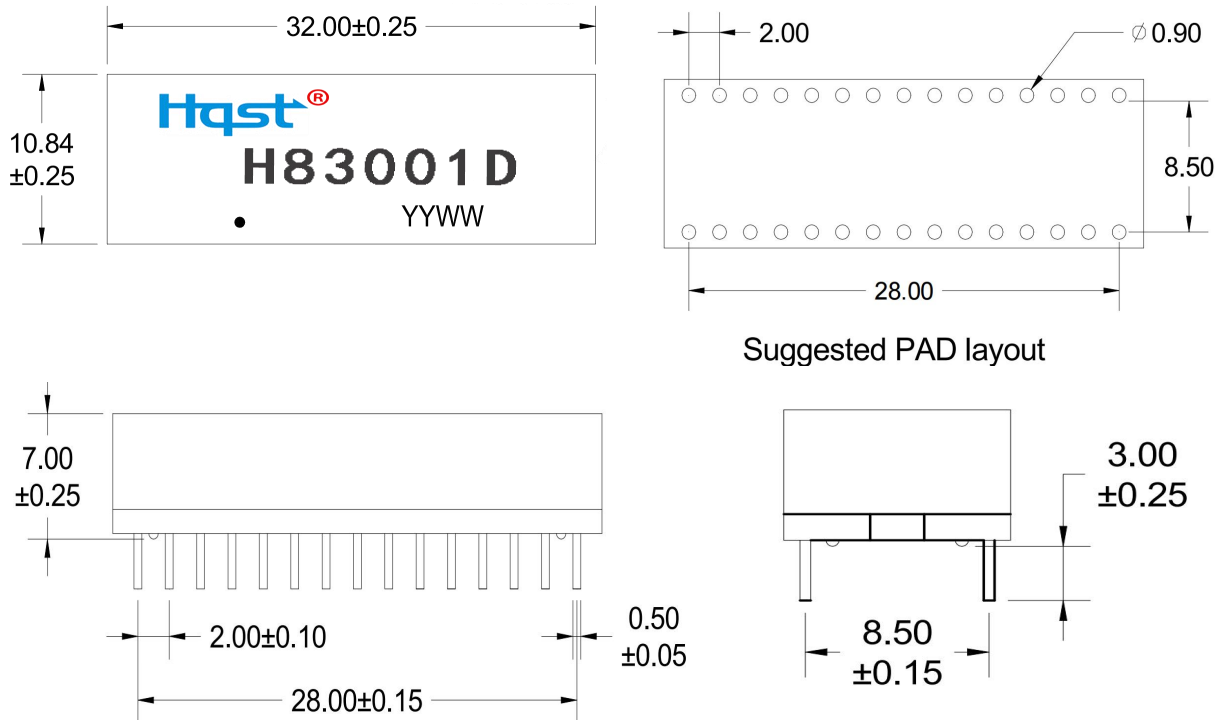
- Designed for Ethernet 100/1000 BASE-T.
- Supports 8 pairs of category 5 UTP cable.
- Cable interface for isolation and low common mode emissions.
- Compliant with IEEE 802.3 standard for 1000 BASE-T.
- Compliance with ROHS requirements
- Operating temperature range: 0°C to +70°C.
- Storage temperature range: -10°C to +85°C.

## Specifications

| Electrical Specification@25° C Operating Temperature 0 to +70° C |                                    |                        |                                      |                                     |              |                    |           |                         |                                   |
|------------------------------------------------------------------|------------------------------------|------------------------|--------------------------------------|-------------------------------------|--------------|--------------------|-----------|-------------------------|-----------------------------------|
| Part NO                                                          | Trun Ratio(±2%)                    |                        | OCL<br>primary@100KH<br>z 0.1Vms 8MA | Leakage<br>primary@10K<br>Hz 0.1Vms | Cww(Pri:Sec) | DCR( Ω )           |           |                         |                                   |
|                                                                  | TX                                 | RX                     |                                      |                                     |              | Primary            | Secondary |                         |                                   |
| H83001D                                                          | 1CT:1CT                            | 1CT:1CT                | 350uH Min                            | 0.5uH max                           | 35PF         | 0.9Max             | 1.2Max    |                         |                                   |
|                                                                  |                                    |                        |                                      |                                     |              |                    |           |                         |                                   |
| Electrical Specification@25° C Operating Temperature 0 to +70° C |                                    |                        |                                      |                                     |              |                    |           |                         |                                   |
| Part NO                                                          | Insertion loss(dB<br>max) 1-100MHz | Return Loss(db min)MHz |                                      |                                     |              | CMRR(dB<br>min)MHz |           | Crosstalk(dB<br>min)MHz | Isolation<br>Voltage(Vrms<br>min) |
|                                                                  |                                    | 1-30                   | 40                                   | 50                                  | 60-          | 1-60               | 60-100    |                         |                                   |
| H83001D                                                          | -1.2                               | -18                    | -14.4                                | -13                                 | -12          | -40                | -35       | -40                     | 1500                              |

## Schematic



**Mechanical:****REEL**