

# Star Magnetics Gigabit Transformer Modules with PoE Option

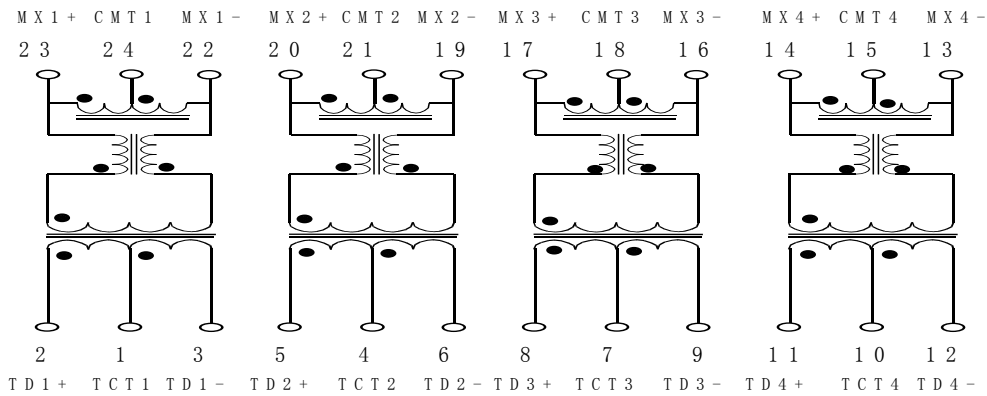
## Features:

- Designed to Support 1:1 Turns Ratio Transceivers, Full duplex applications
- Supports 4 pairs of category 5 UTP cable
- Comokuant with IEEE 802.3af
- Operating temperature 0°C to 70°C
- Minimum interwinding breakdown voltage of 1500Vrms

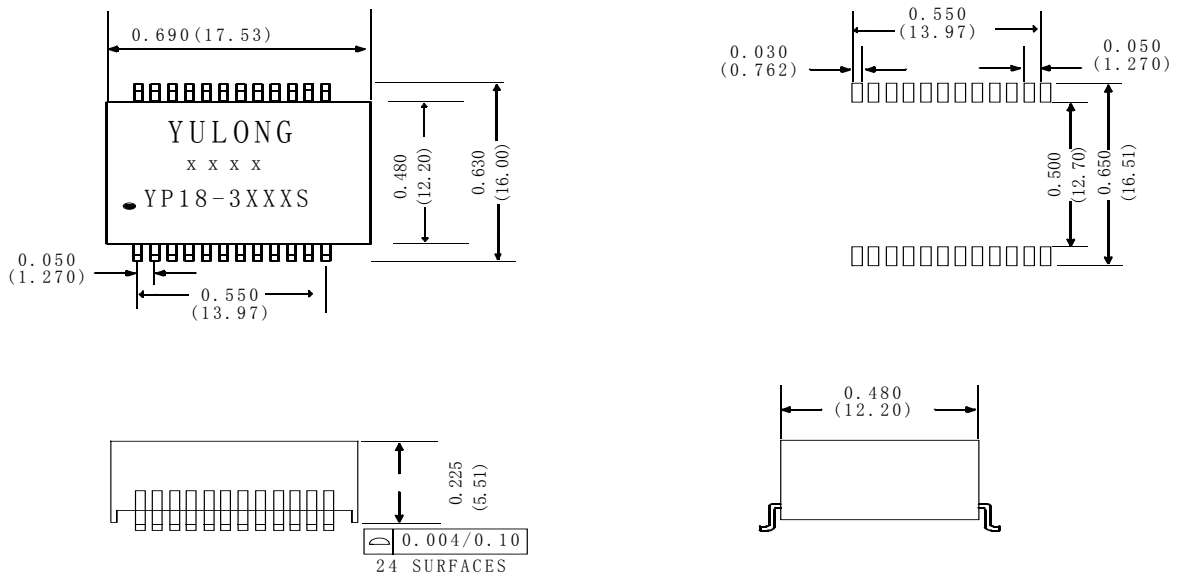
## Electrical Specifications @ 25°C

| Part Number | Insertion Loss (dB Max) | Return Loss (dB min) |                 | Common to Common Mode Rejection (dB min) | Crosstalk (dB min) |
|-------------|-------------------------|----------------------|-----------------|--|--------------------|
|             | 0.1MHz to 100MHz        | 0.5MHz to 40MHz      | 40MHz to 100MHz | 0.1MHz to 100MHz                         | 30MHz 60MHz 100MHz |
| YP18-3002S  | -1.0                    | -18                  | -12             | -30                                      | -45 -40 -35        |

## Schematics



## Mechanicals



**NOTE: Dimensions: inches/(mm) unless otherwise specified all tolerances are  $\pm 0.010(0.25)$**