

# 10GBASESINGLEPORTTRANSFORMERMODULES

## Part NO:G82409S



### Features:



Notice : This is a RoHS compliant component, All engineering changes must have prior approval by the design center

Designed to meet IEEE 802.3 requirements.

10G BASE-T Ethernet Magnetics

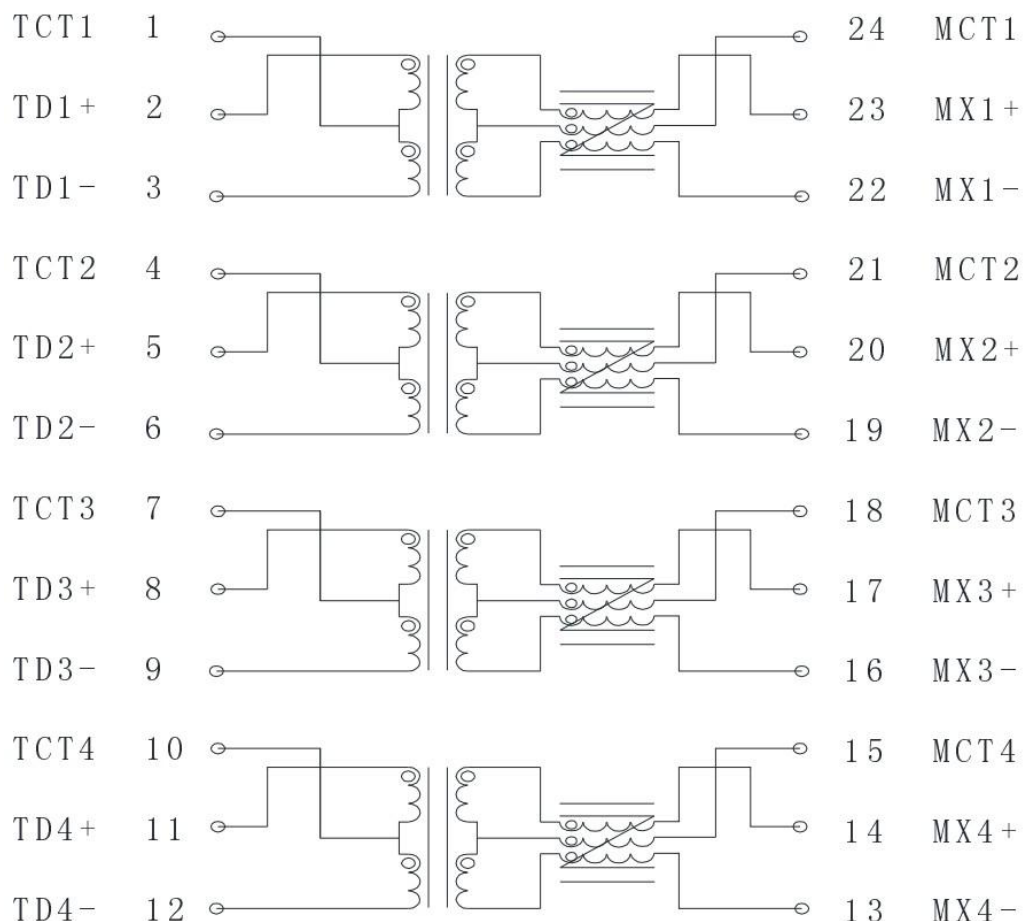
Operating temperature:0° C~+70° C

### Specifications

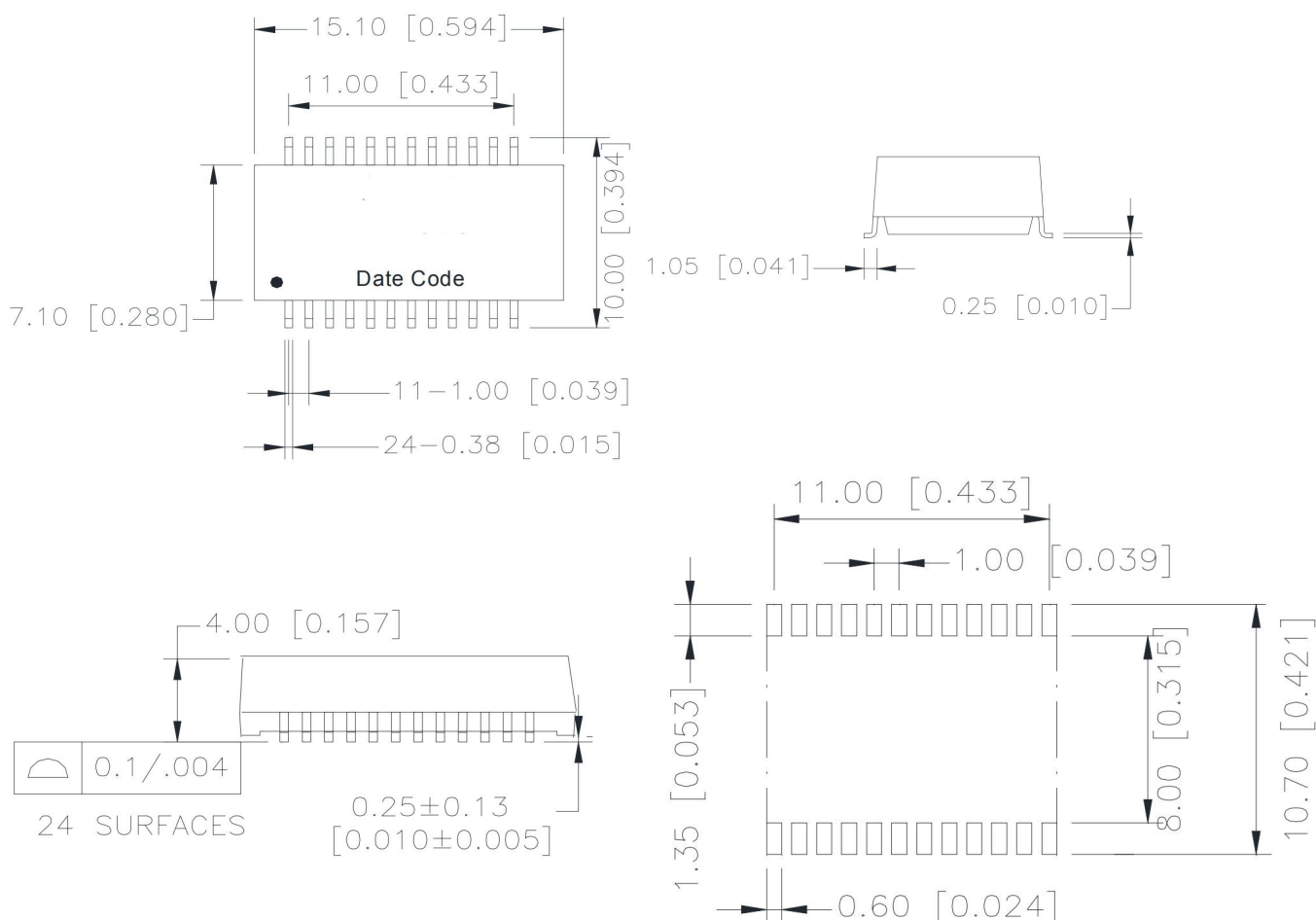
| Electrical Specification@25° C Operating Temperature 0 to +70° C |                 |         |                                  |                        |          |                |              |                |                                      |
|------------------------------------------------------------------|-----------------|---------|----------------------------------|------------------------|----------|----------------|--------------|----------------|--------------------------------------|
| Part NO                                                          | Trun Ratio(±2%) |         | OCL<br>primary@100<br>KHz 0.1Vms | Insertion loss(dB max) |          |                | DCMR(dB MIN) |                | DC<br>CURRENT/VOLTAGE<br>RATING( Ω ) |
|                                                                  | TX              | RX      |                                  | 300KHz                 | 1-400MHz | 400-<br>500MHz | 1-250KHz     | 250-<br>500KHz |                                      |
| G82409S                                                          | 1CT:1CT         | 1CT:1CT | 120uH Min                        | -3.0                   | -1.5     | -3.0           | -30          | -22            | 350 mA MAX                           |

| Electrical Specification@25° C Operating Temperature 0 to +70° C |                                      |            |            |                        |                           |                      |                |                                    |
|------------------------------------------------------------------|--------------------------------------|------------|------------|------------------------|---------------------------|----------------------|----------------|------------------------------------|
| Part NO                                                          | COMMON MODE REJECTION RATIO (dB MIN) |            |            | Return Loss(dB min)MHz |                           | Crosstalk(dB min)MHz |                | Isolation<br>Voltage(Vrms<br>min@) |
|                                                                  | 1-100MHz                             | 100-300MHz | 300-500MHz | 1-40MHz                | 40-500MHz                 | 1-100MHz             | 100-<br>500MHz |                                    |
| G82409S                                                          | -30                                  | -28        | -22        | -18                    | -17+10*LOG(f/40)dB<br>Min | -30                  | -25            | 1500                               |

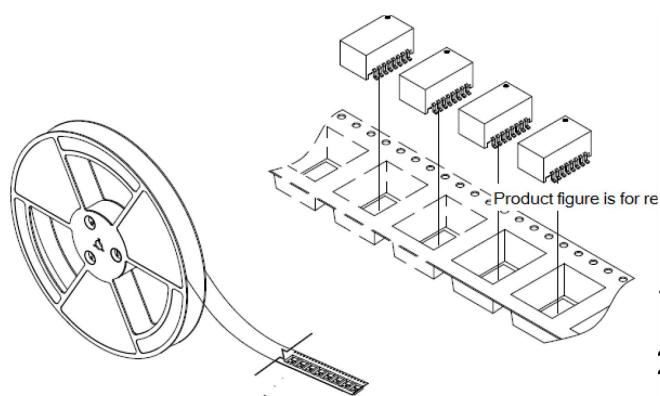
### Schematic



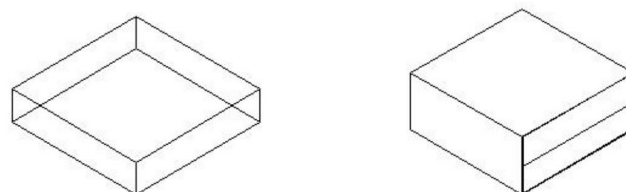
### **Mechanical:**



## Package



## SUGGESTED PCB LAYOUT



1. Quantily per reel:800PCS
2. Quantily per carton:1600PCS
3. Quantily per big carton:4800PCS