

# Part Number: AE-SC24D01

## 10/100/1000 SMD LAN TRANSFORMER

- Compliant with IEEE802.3 requirement.
- RoHS compliant.
- Operating temperature range:0°C to +70°C.
- Storage temperature range:-20°C to +125°C.

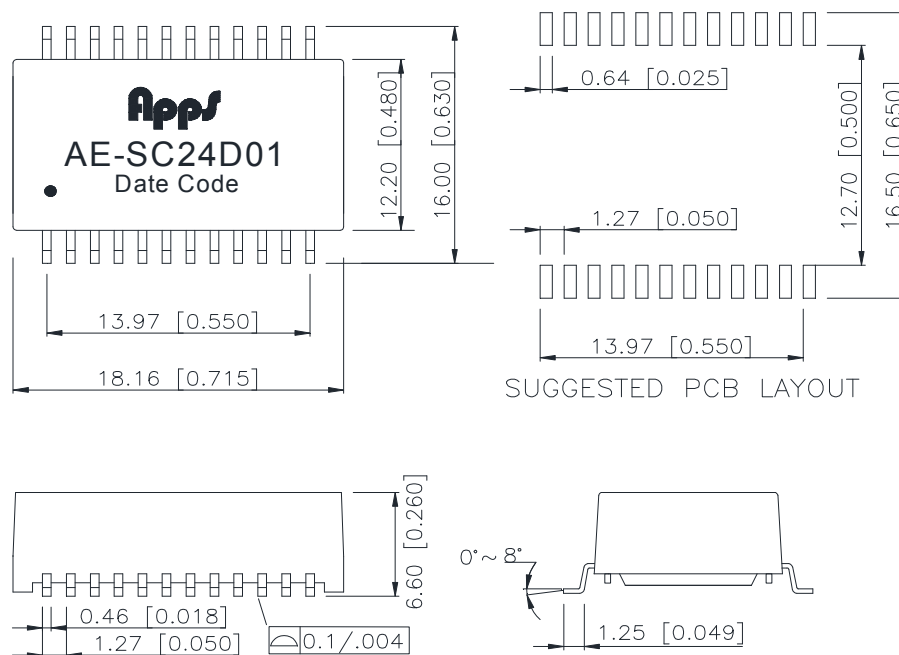
### Electrical Specifications @ 25°C

| Part Number | Turns Ratio (±5%) | OCL(μH Min) @100KHz/0.1V |                | Insertion Loss (dB Max) |                             | HI-POT (Vrms) |
|-------------|-------------------|--------------------------|----------------|-------------------------|-----------------------------|---------------|
|             | TX:RX             | with 8.0mA DC            | with 19.0mA DC | 100KHz                  | 1-125MHz                    |               |
| AE-SC24D01  | 1CT:1CT           | 350                      | 120            | -1.2                    | -0.2-0.002*f <sup>1.4</sup> | 1500          |

### Continue

| Part Number | Return Loss (dB Min) |                 | Cross Talk (dB Min) |                 | CMRR (dB Min) |                                   |
|-------------|----------------------|-----------------|---------------------|-----------------|---------------|-----------------------------------|
|             | 1-40MHz              | 40.1MHz-100MHz  | 1MHz                | 10-100MHz       | 2MHz          | 30-100MHz                         |
| AE-SC24D01  | -16                  | -10+20*lg(f/80) | -50                 | -55+22*lg(f/10) | -50           | -15+20* Log <sub>10</sub> (f/200) |

### Mechanicals:

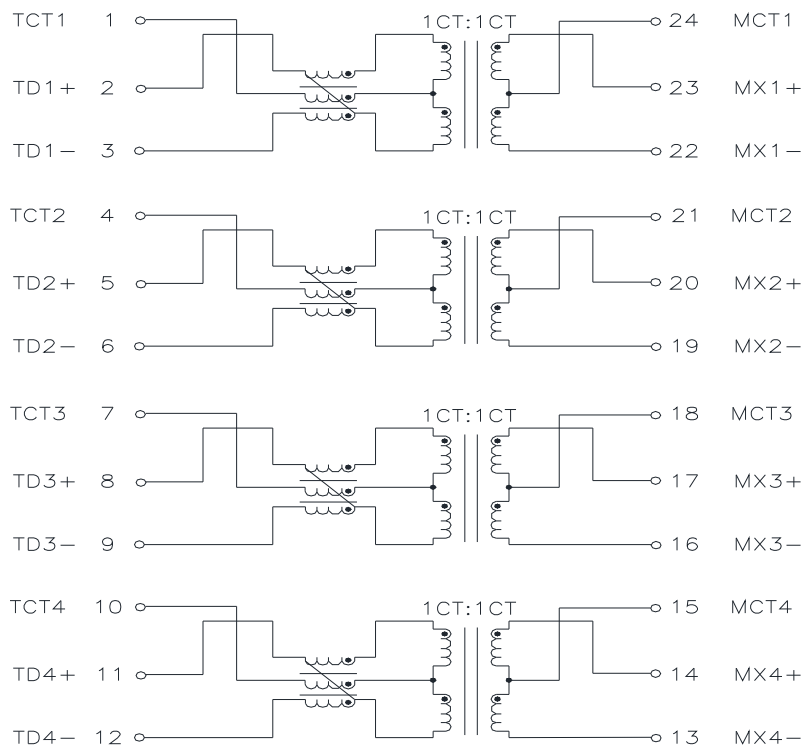


Dimension: mm [Inch] ±0.25 [0.010]

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**Schematics:**



**Package:**

