

Part Number: AE-SB16026H

10/100 BASE SINGLE PORT TRANSFORMER

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- Compliant with IEEE 802.3 standard.
- RoHS compliant.
- Operating temperature range:-40°C to +85°C.
- Storage temperature range:-50°C to +125°C.



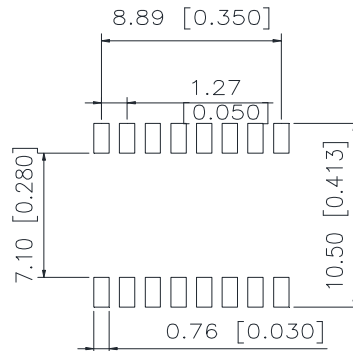
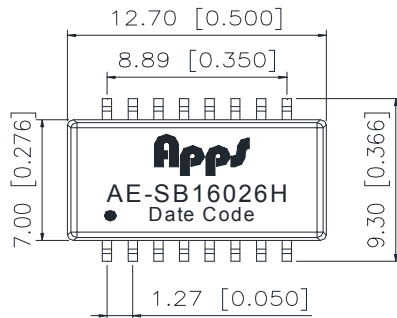
**Electrical Specifications @ 25°C**

| Part Number | Turns Ratio<br>(±2%) | OCL(μH Min)<br>@100KHz/0.1V<br>with 8.0mA DC | Insertion Loss<br>(dB Max) |                             | HI-POT<br>(Vrms) |
|-------------|----------------------|----------------------------------------------|----------------------------|-----------------------------|------------------|
|             | TX:RX                |                                              | 100KHz                     | 1-125MHz                    |                  |
| AE-SB16026H | 1CT:1CT              | 350                                          | -1.2                       | -0.2-0.002*f <sup>1.4</sup> | 1500             |

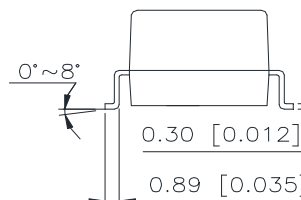
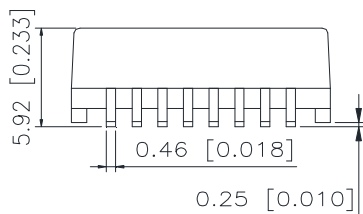
**Continue**

| Part Number | Return Loss<br>(dB Min) |                 | Cross Talk<br>(dB Min) |                 | DCMR<br>(dB Min) |
|-------------|-------------------------|-----------------|------------------------|-----------------|------------------|
|             | 5MHz                    | 30-80MHz        | 1MHz                   | 5-100MHz        | 5-100MHz         |
| AE-SB16026H | -18                     | -16+26*lg(f/30) | -62                    | -45+21*lg(f/30) | -50+17*lg(f/5)   |

**Mechanicals:**



**SUGGESTED PCB LAYOUT**



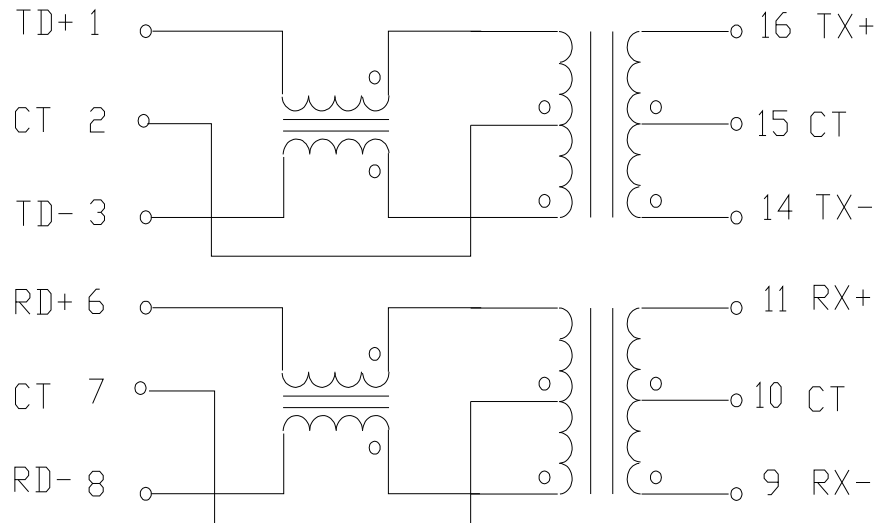
Dimension: mm[Inch]±0.25[0.010]

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**Schematics:**



**Package:**

