

Part Number: AE-SB16002H

10/100 BASE SMD LAN TRANSFORMER

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



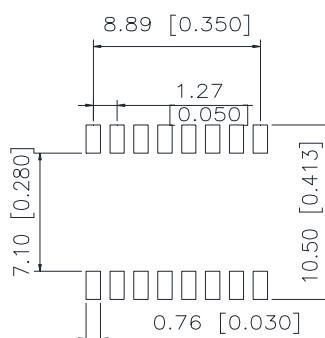
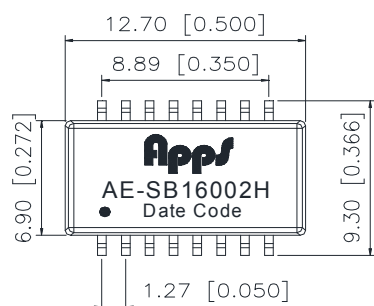
#### Electrical Specifications @ 25°C

| Part Number | Turns Ratio (±5%) |         | OCL(μH Min)<br>@100KHz/0.1V<br>with 8.0mA DC | Insertion Loss<br>(dB Max) | HI-POT<br>(Vrms) |
|-------------|-------------------|---------|----------------------------------------------|----------------------------|------------------|
|             | TX                | RX      |                                              | 1-100MHz                   |                  |
| AE-SB16002H | 1CT:1CT           | 1CT:1CT | 350                                          | -1.15                      | 1500             |

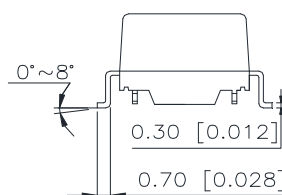
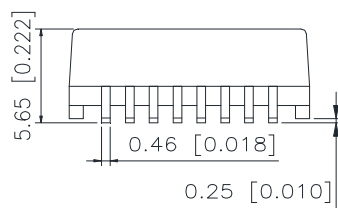
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| Part Number | Return Loss<br>(dB Min) |       |       |          | Cross Talk<br>(dB Min) |           | DCMR<br>(dB Min) |       |        |
|-------------|-------------------------|-------|-------|----------|------------------------|-----------|------------------|-------|--------|
|             | 1-30MHz                 | 40MHz | 50MHz | 60-80MHz | 1-30MHz                | 30-100MHz | 30MHz            | 60MHz | 100MHz |
| AE-SB16002H | -18                     | -14.4 | -13.1 | -12      | -40                    | -30       | -40              | -35   | -30    |

#### Mechanicals:



SUGGESTED PCB LAYOUT



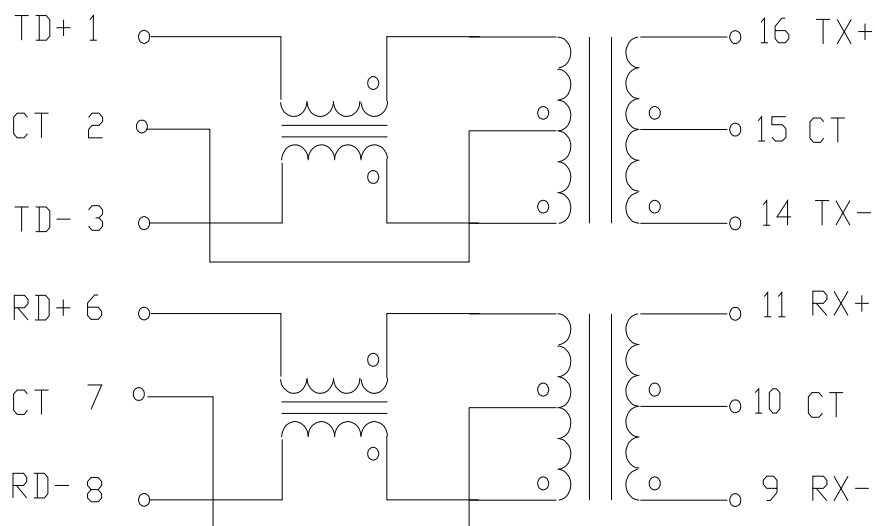
Dimension: mm[Inch]±0.25[0.010]

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### Schematics:



### Package:

