

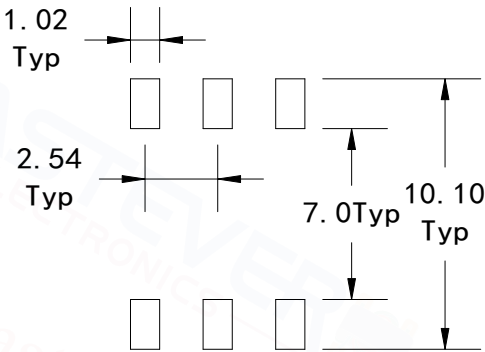
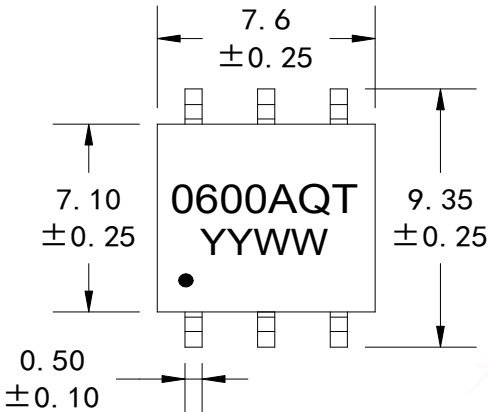
Lan Discrete Transformer

ES0600AQT

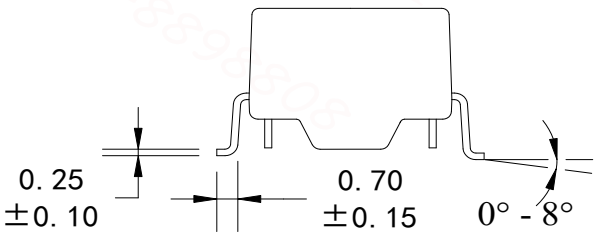
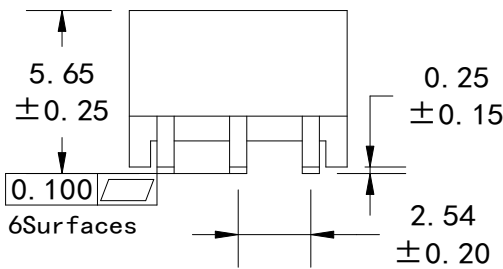
2025-6-23 Rev. 0



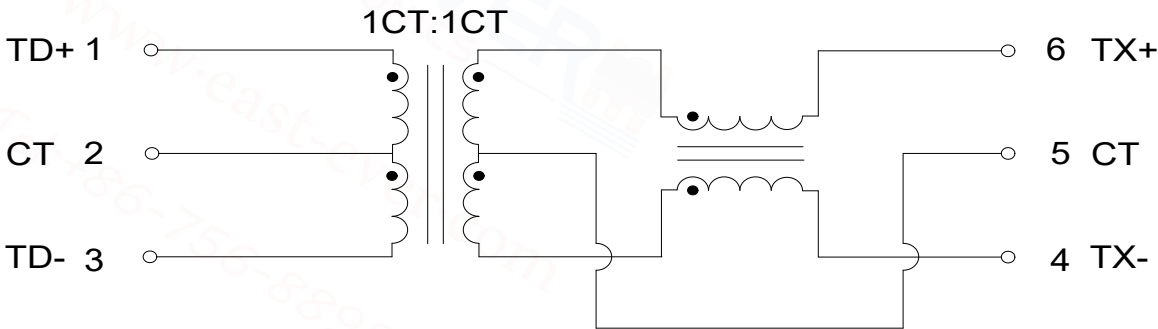
A. MECHANICAL(unit:mm)



Suggested PAD Layout



B. SCHEMATICS

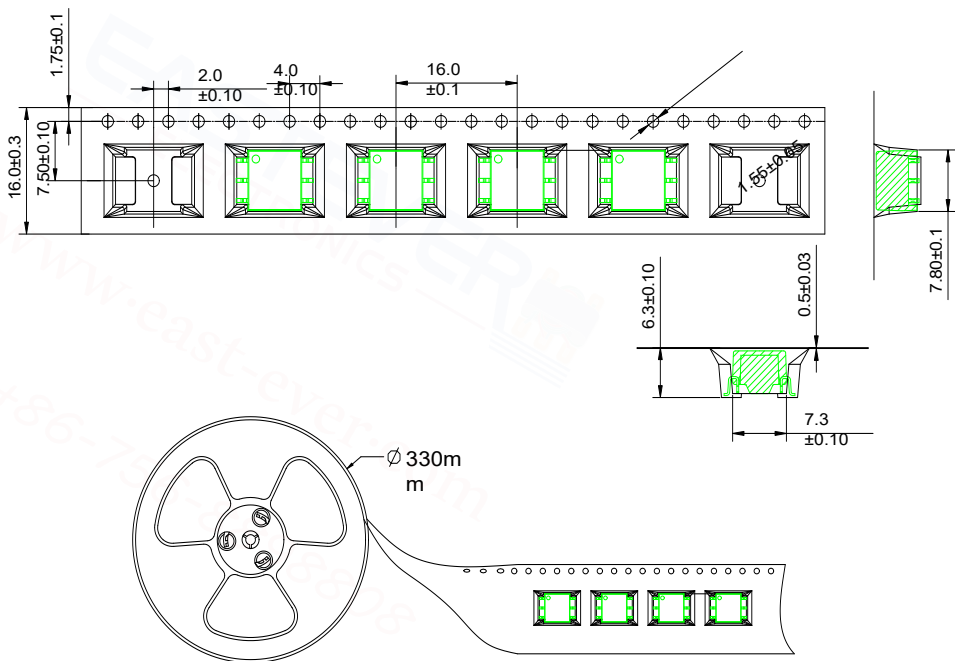


C. ELECTRICAL SPECIFICATIONS @25℃

1. OCL: 150 uH Min @ 100 KHz, 0.1V
2. Leakage Inductance: 0.5uH Max @ 100KHz, 0.1V
3. DCR: (1 to 3) 450mΩ Max,(6 to 4) 850mΩ Max
4. urns Ratio: 1CT:1CT±5%
5. Insertion Loss: -0.5 dB Max @ 4 MHz
6. Return Loss: -20 dB Min @ 4 MHz
7. Common Mode Rejection: -35 dB Min @ 1-100 MHz
8. Isolation Hipot: 4300VDC 1mA 60s
9. Moisture Sensitivity Level-1
10. ESD Classification (HBM): N/A
11. Functional insulation, Working Voltage:1000 VDC
12. Qualification: Meet AEC-Q200
13. Operating temperature -40℃ to +125℃
14. Storage Temperature(With Package): +10℃ to +40℃
15. Storage Temperature(Without Package, Just For Components): -40℃ to +125℃
16. RoHS Compliant
17. Qualification: Meet AEC-Q200

D. PACKAGE INFORMATION

D .1 Tape and Reel(mm):



D.2 Carton ndimensions and packing quantity:

Product Series	Quantity/Reel	Inner Carton Quantity	Out Carton Quantity
ES0600AQT	600pcs	2400pcs	(2400*2)=4800pcs

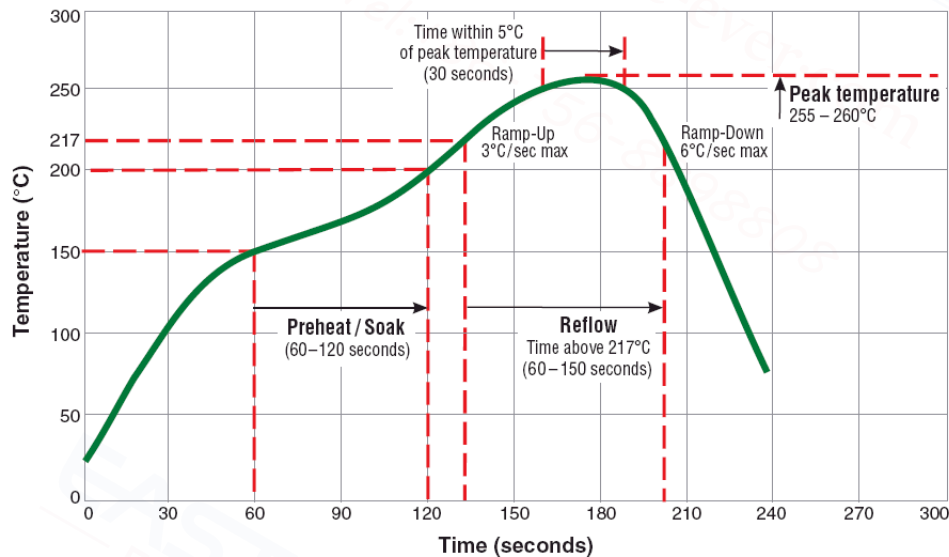
E. SOLDERING CONDITIONS

Applicable soldering process to the products is reflow.

1.Soldering Materials

- (1)Solder:Sn-3.0Ag-0.5Cu (Equivalent)
- (2)Flux:Use rosin-based flux,but not strongly acidic flux (with xhlorine exceeding 0.2wt %).Do not use water-soluble flux.

2.Reflow Soldering Profile



Reworking with electric soldering iron must preheating at 150°C for 1 minute is required, and do not directly touch the core with the tip of the soldering iron. The reworking soldering conditions are as follows.

- ① Temperature of soldering iron tip: 350°C;
- ② Soldering iron power output: ≤30W;
- ③ Diameter of soldering iron end: ≤1.0mm;
- ④ Soldering time: <3 s