

# LAN Components

## 10BASE-2/5/T

### Pulse Transformers

## TLA-3T101/102/104/108

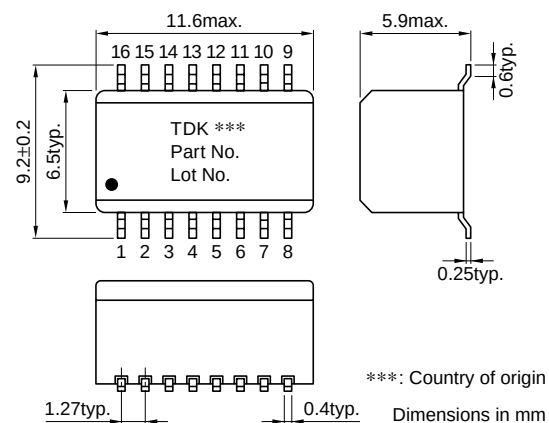
### FEATURES

- 16-pin SOP package(1.27mm=50mil pin pitch).
- AC.2000V withstanding voltage.
- Using the high-quality and wide-band ferrite cores for LAN.
- Tape and reel packaging are available(TLA-3T10□-T: Tape and reel, TLA-3T10 □: Bulk).
- ISO9001/QS9000 quality standards certification.

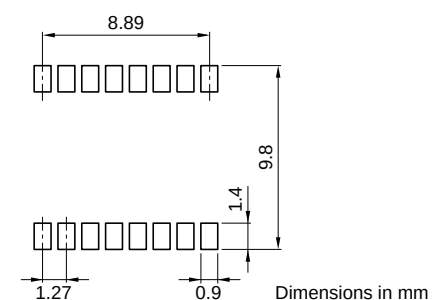
### GENERAL SPECIFICATIONS

|                             |                 |
|-----------------------------|-----------------|
| Pulse transformer           | 3               |
| Port                        | 1               |
| Operating temperature range | 0 to +70°C      |
| Storage temperature range   | -40 to +85°C    |
| Withstanding voltage        | Erms:2000V[60s] |

### SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM



### RECOMMENDED PC BOARD PATTERN



### ELECTRICAL CHARACTERISTICS

| Part No.      | Turns ratio | Inductance<br>(μH)typ.[100kHz] | Leakage inductance<br>(μH)max.[100kHz] | Inter-winding<br>stray capacitance<br>(pF)max.[100kHz] | DC resistance<br>(Ω)max. |
|---------------|-------------|--------------------------------|----------------------------------------|--------------------------------------------------------|--------------------------|
|               | 1,2:16,15   | 1-2                            | 1-2[16-15 shorted]                     | 1,2-16,15                                              | 1-2,16-15                |
|               | 4,5:13,12   | 4-5                            | 4-5[13-12 shorted]                     | 4,5-13,12                                              | 4-5,13-12                |
|               | 7,8:10,9    | 7-8                            | 7-8[10-9 shorted]                      | 7,8-10,9                                               | 7-8,10-9                 |
| TLA-3T101(-T) | 1:1         | 100                            | 0.25                                   | 10                                                     | 0.35, 0.35               |
| TLA-3T102(-T) | 1:1         | 50                             | 0.25                                   | 10                                                     | 0.35, 0.35               |
| TLA-3T104(-T) | 1:1         | 150                            | 0.35                                   | 12                                                     | 0.40, 0.40               |
| TLA-3T108(-T) | 1:1         | 75                             | 0.25                                   | 10                                                     | 0.35, 0.35               |

- Ta=25°C

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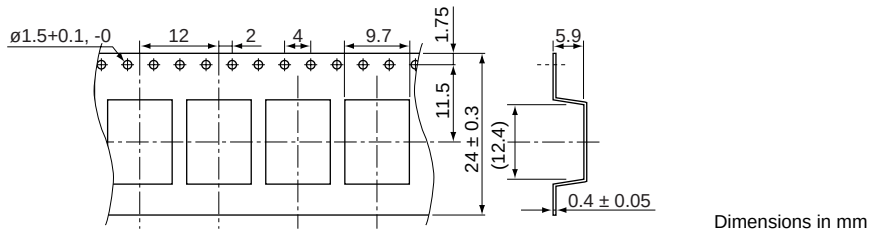
### Pulse Transformers

TLA-3T101/102/104/108

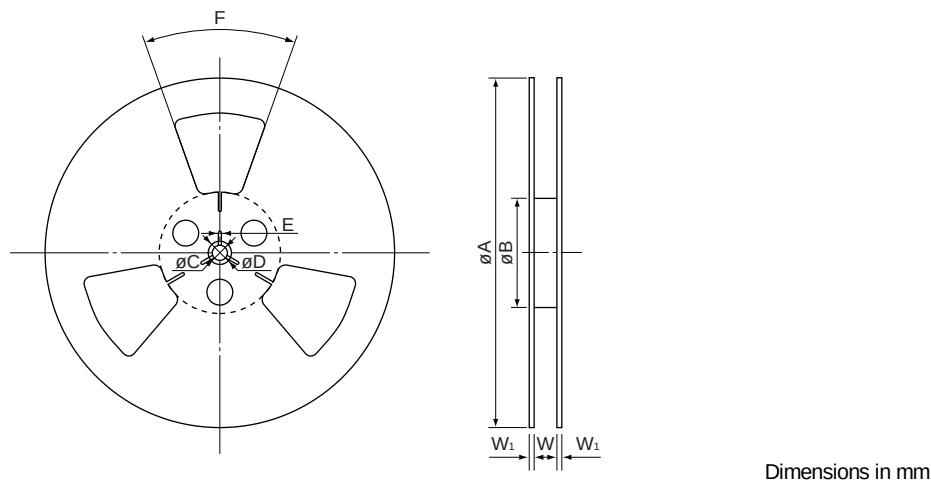
#### PACKAGING STYLES

Quantity : 1000pieces/reel

#### TAPE DIMENSIONS



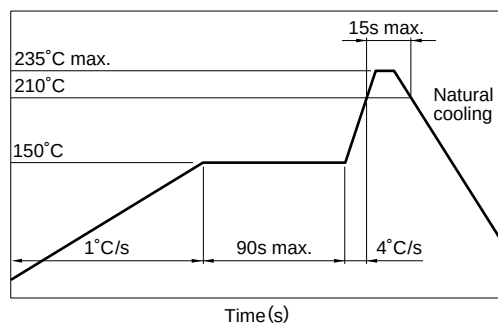
#### REEL DIMENSIONS



| A     | B    | C        | D      | E     | F     | W          | W <sub>1</sub> |
|-------|------|----------|--------|-------|-------|------------|----------------|
| 330±2 | 80±1 | 13.5±0.2 | 21±0.8 | 2±0.5 | 3-40° | 24.4+2, -0 | 2±0.5          |

#### RECOMMENDED SOLDERING CONDITION

##### REFLOW SOLDERING



- Temperature is measured on the top of products body(Using thermocoupler for measurement).
- This profile is reference data we recommend. Please check in your actual process.