

# TLA-6T406(-T) 10/100BASE-TX

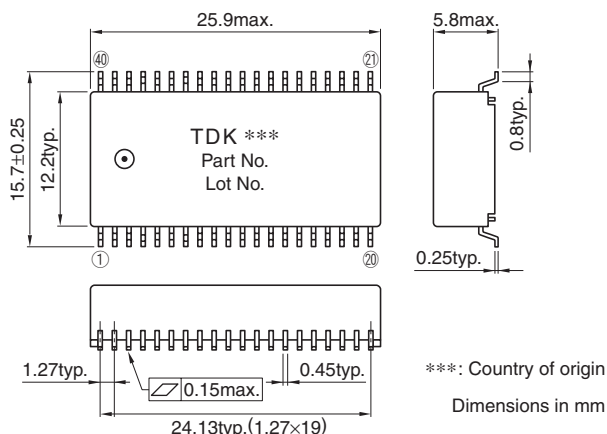
## FEATURES

- Lead free product.
- Can be mounted with lead-free solder (250°C max.).
- 40-pin SMD package(1.27mm=50mil pin pitch) for Quad port.
- Excellent common-mode noise suppression.
- Inductance is 350μH or greater (f=100kHz, DC bias=8mA).
- Using the high-quality and wide-band ferrite cores for LAN.
- Packaging specification is taping and bulk(TLA-6T406-T: Tape and reel, TLA-6T406: Bulk).

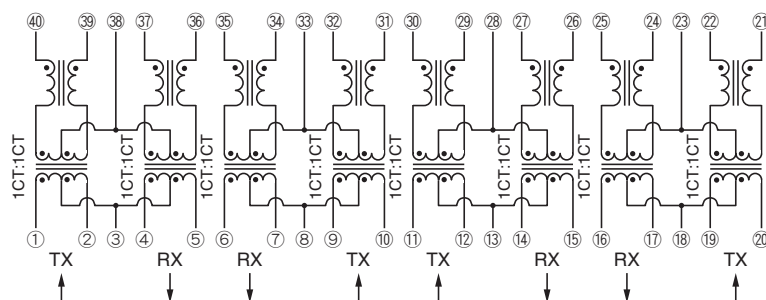
## GENERAL SPECIFICATIONS

|                      |           |                 |
|----------------------|-----------|-----------------|
| Pulse transformer    |           | 8               |
| Common-mode choke    |           | 8               |
| Port                 |           | 4               |
| Temperature ranges   | Operating | 0 to +70°C      |
|                      | Storage   | -40 to +85°C    |
| Withstanding voltage |           | Erms:1500V[60s] |

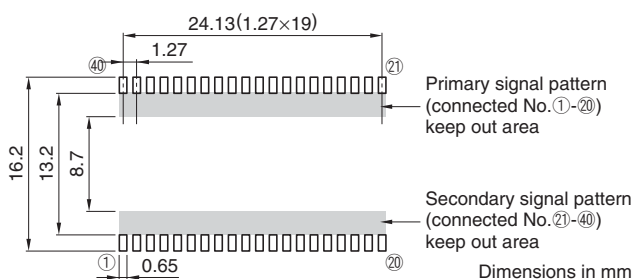
## SHAPES AND DIMENSIONS



## CIRCUIT DIAGRAM



## RECOMMENDED PC BOARD PATTERN



## ELECTRICAL CHARACTERISTICS

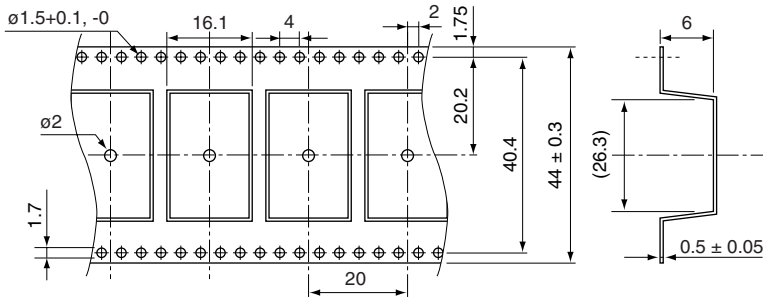
| Part No.      | Turns ratio                    | Inductance (μH)min.<br>[DC bias 8mA, 100kHz] | Insertion loss (dB)max.<br>[0.1 to 100MHz] | Inter-winding stray capacitance (pF)max.[100kHz] |
|---------------|--------------------------------|--|--|--|
|               | ①③②:④③③③.....<br>④③⑤:⑦③③③..... | ④③.....<br>⑦③.....                           | ①②-④③.....<br>④⑤-⑦③.....                   | ①②-④③.....<br>④⑤-⑦③.....                         |
| TLA-6T406(-T) | 1CT:1CT                        | 350  | 1  | 40   |
|               | 1CT:1CT                        | 350  | 1  | 40   |

• Ta=25°C

### PACKAGING STYLES

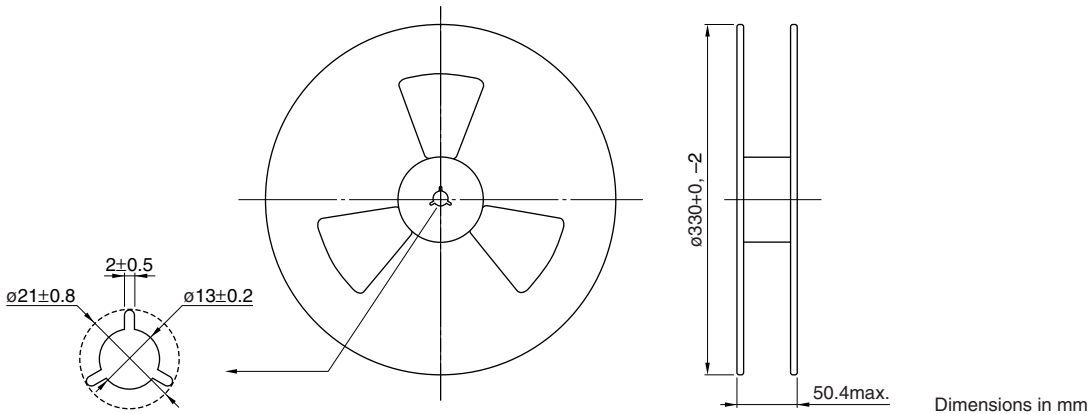
Quantity : 500pieces/reel

### TAPE DIMENSIONS



Dimensions in mm

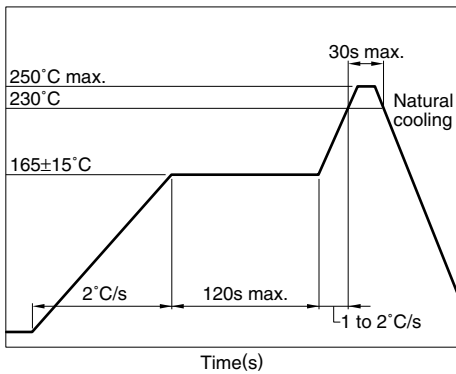
### REEL DIMENSIONS



Dimensions in mm

### RECOMMENDED SOLDERING CONDITION

#### REFLOW SOLDERING



- Temperature is measured at the terminal portion of product (Using thermocoupler for measurement).
- This profile is reference data we recommend. Please check in your actual process.
- For reliable soldering, the thickness of solder paste screen should be over the terminal co-planality.
- The cutted end of terminal has no plating(out of subject of solder ability).

#### RECOMMENDED STORE CONDITION

The product is packaged by Anti-humid Al bag, in order to keep a good solder ability condition and resistance to soldering heat for products.

- Before aluminum bag opening  
Temperature range: +5 to +40°C  
Humidity: 90(%)RH max.  
Storage period: 1year
- After aluminum bag opening  
Temperature range: +5 to +30°C  
Humidity: 60(%)RH max.  
Storage period: 1week