

# TLA-7T101LF(-T) ISO8802.3(IEEE802.3) 10/100/1000BASE-T

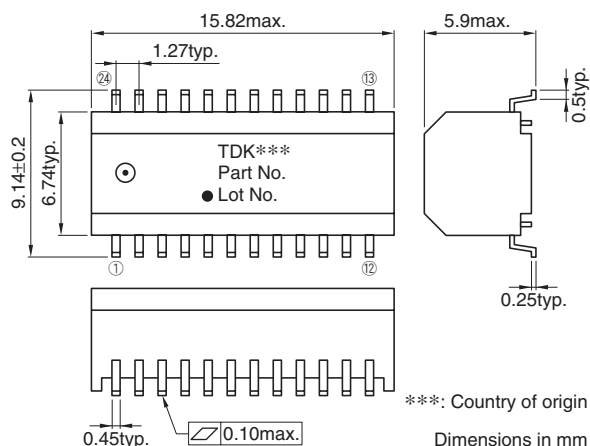
## FEATURES

- Product conforming to RoHS directive.
- Can be mounted with lead-free solder (260°C max.).
- 24-pin SMD package(1.27mm=50mil pin pitch).
- 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-7T101LF-T: Tape and reel, TLA-7T101LF: Bulk).

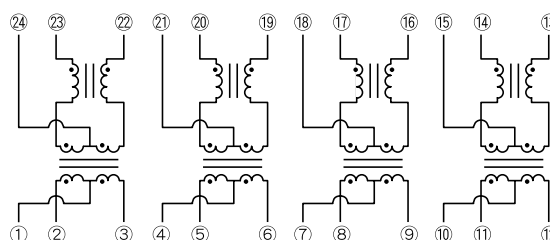
## GENERAL SPECIFICATIONS

Pulse transformer		4
Common-mode choke		4
Port		1(1000BASE-T)
Temperature ranges	Operating	0 to +70°C
	Storage	-40 to +85°C
Withstanding voltage		Erms:1500V[60s]

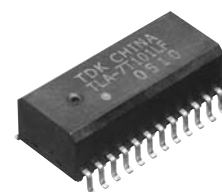
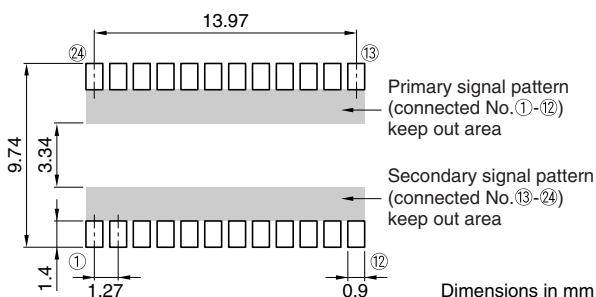
## SHAPES AND DIMENSIONS



## CIRCUIT DIAGRAM



## RECOMMENDED PC BOARD PATTERN



## ELECTRICAL CHARACTERISTICS

Part No.	Turns ratio	Inductance (μH)min. [DC bias 8mA, 100kHz]	Insertion loss (dB)max. [0.1 to 100MHz]	Inter-winding stray capacitance (pF)max.[100kHz]
	②①③ : ②③④②	②③-②②	②③-②③②	②③-②③②
	⑤④⑥ : ②①⑨	②①-①⑨	⑤⑥-②①⑨	⑤⑥-②①⑨
	⑧⑦⑨ : ①⑦⑧⑥	①⑦-①⑥	⑧⑨-①⑦⑥	⑧⑨-①⑦⑥
	⑪⑩⑫ : ①④⑮⑬	①④-①③	⑪⑫-①④⑬	⑪⑫-①④⑬
TLA-7T101LF(-T)	1CT:1CT	350	1	25

• Ta=25°C

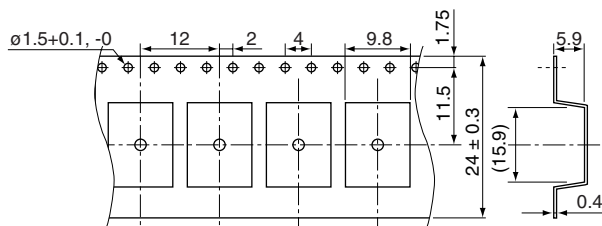
• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

### PACKAGING STYLES

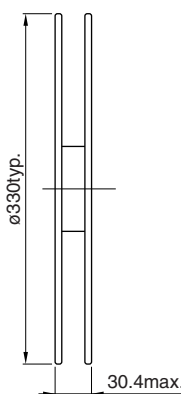
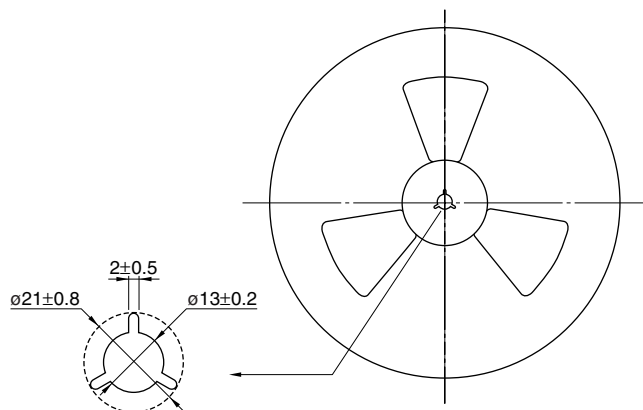
Quantity : 1000pieces/reel

### TAPE DIMENSIONS



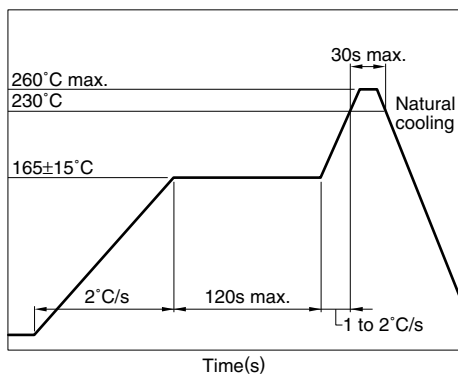
Dimensions in mm

### 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 CONDITION FOR LONG TERM STORE

When it stores for a long term, please avoid place of high temperature and high humidity. Recommend that it uses after the delivery within 1year.

Temperature range: +5 to +30°C

Humidity: 60(%)RH max.