

LAN Components

10BASE-T

Pulse Transformers

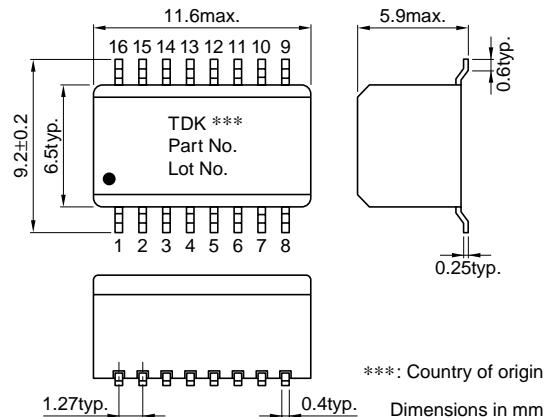
TLA-3T106/107/111

TLA-3T106/107

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.
- TLA-3T106/107 are suitable for use with LEVEL ONE's LXT914, 915, 944(LEVEL ONE recommends).
- TLA-3T106 is suitable for use with AMD's Am79C984A, 985, 988A.
- Tape and reel packaging are available(TLA-3T10□-T: Tape and reel, TLA-3T10 □: Bulk).
- ISO9001/QS9000 quality standards certification.

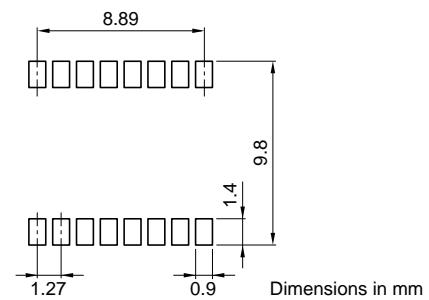
SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM



GENERAL SPECIFICATIONS

| | |
|-----------------------------|-----------------|
| Pulse transformer | 4 |
| Port | 4 |
| Operating temperature range | 0 to +70°C |
| Storage temperature range | -40 to +85°C |
| Withstanding voltage | Erms:2000V[60s] |

RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

| Part No. | Turns ratio | Inductance (μ H)min.[100kHz] | Leakage inductance (μ H)max.[100kHz] | Inter-winding stray capacitance (pF)max.[100kHz] | DC resistance (Ω)max. |
|---------------|-------------|--------------------------------------|--|--|-----------------------------------|
| 1,2:16,15 | 1-2 | 1-2[16-15 shorted] | 1-2[16-15 shorted] | 1,2-16,15 | 1-2, 16-15 |
| 3,4:14,13 | 3-4 | 3-4[14-13 shorted] | 3-4[14-13 shorted] | 3,4-14,13 | 3-4, 14-13 |
| 5,6:12,11 | 5-6 | 5-6[12-11 shorted] | 5-6[12-11 shorted] | 5,6-12,11 | 5-6, 12-11 |
| 7,8:10,9 | 7-8 | 7-8[10-9 shorted] | 7-8[10-9 shorted] | 7,8-10,9 | 7-8, 10-9 |
| TLA-3T106(-T) | 1:1 | 130 | 0.3 | 12 | 0.4, 0.4 |
| TLA-3T107(-T) | 1:1.41 | 130 | 0.3 | 12 | 0.4, 0.5 |

• $T_a=25^\circ\text{C}$

LAN Components

10BASE-T

Pulse Transformers

TLA-3T106/107/111

TLA-3T111

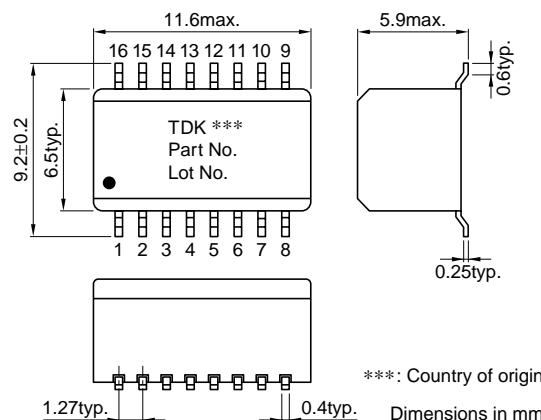
FEATURES

- 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-3T111-T: Tape and reel, TLA-3T111: Bulk).
- ISO9001/QS9000 quality standards certification.

GENERAL SPECIFICATIONS

| | |
|-----------------------------|-----------------|
| Pulse transformer | 2 |
| Port | 1 |
| Operating temperature range | 0 to +70°C |
| Storage temperature range | -40 to +85°C |
| Withstanding voltage | Erms:2000V[60s] |

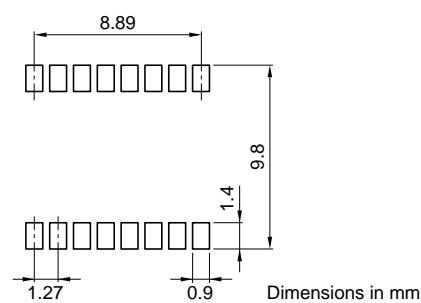
SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM



***: Country of origin
Dimensions in mm



RECOMMENDED PC BOARD PATTERN



Dimensions in mm

ELECTRICAL CHARACTERISTICS

| Part No. | Turns ratio | Inductance (μ H)min.[100kHz] | Leakage inductance (μ H)max.[100kHz] | Inter-winding stray capacitance (pF)max.[100kHz] | DC resistance (Ω)max. |
|---------------|---------------------------------|--------------------------------------|--|--|-----------------------------------|
| | 1,2,3:16,15,14 6,7,8:11,10,9 | 1-3 6-8 | 1-3[16-14 shorted] 6-8[11-9 shorted] | 1,3-16,14 6,8-11,9 | 1-3 6-8 |
| TLA-3T111(-T) | 1CT:1CT 1CT:1.41CT | 130 | 0.3 | 12 | 0.5 |

• $T_a=25^\circ\text{C}$

LAN Components

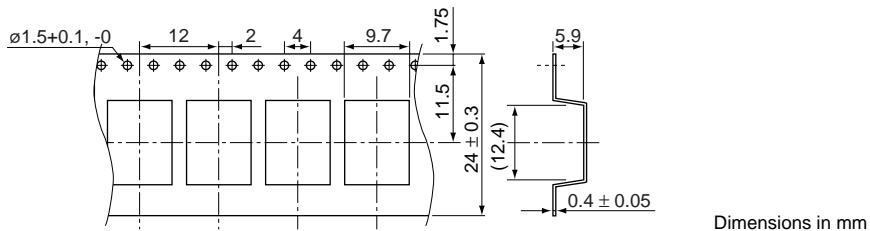
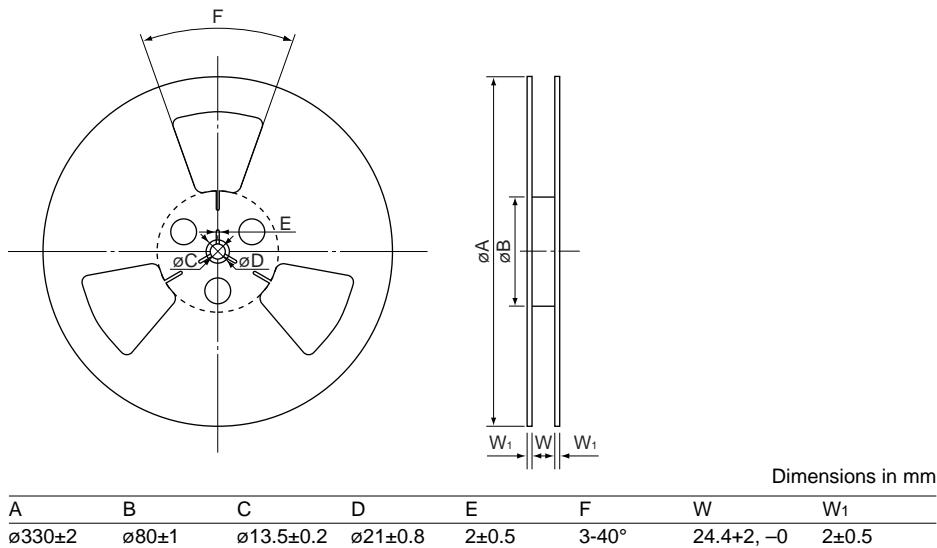
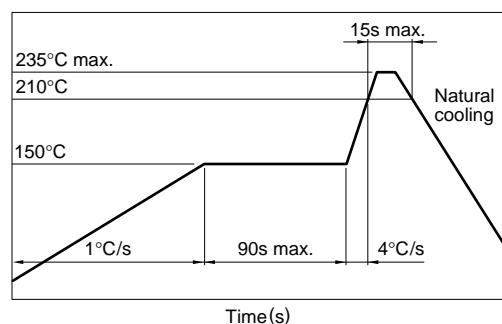
10BASE-T

Pulse Transformers

TLA-3T106/107/111

PACKAGING STYLES

Quantity : 1000pieces/reel

TAPE DIMENSIONS**REEL DIMENSIONS****RECOMMENDED SOLDERING CONDITION****REFLOW SOLDERING**

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