
LAN COMPONENTS

TLA SERIES(Conformity to RoHS Directive)

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Precautions

The TDK products in this data are intended for usage in general electronics applications (computer, personal equipment, office equipment, measuring equipment, industrial robotics, domestic appliances, etc.).

They are neither intend nor warranted for usage in equipment that requires extraordinarily high quality and/or reliability or a malfunction or failure of which may cause loss of human life or bodily injury (atomic energy control instruments, airplane or spaceship instruments, transportation instrument, traffic signal instruments, combustion control instrument, medical instruments, all types of safety devices, etc.).

- 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.
-

LAN Components TLA Series

Conformity to RoHS Directive

PULSE TRANSFORMERS

TLA-3T101LF(-T)/108LF(-T) ISO8802.3(IEEE802.3) 10BASE2/5-T

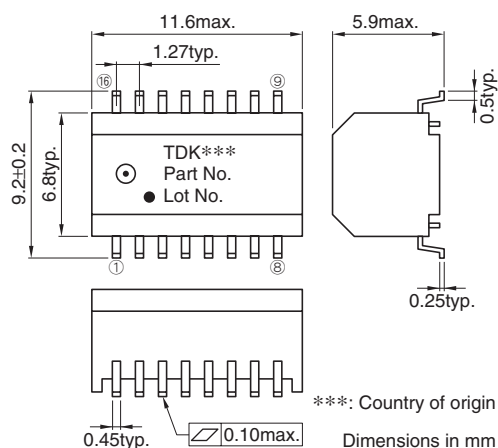
FEATURES

- Product conforming to RoHS directive.
- Can be mounted with lead-free solder (260°C max.).
- 16-pin SMD package(1.27mm=50mil pin pitch).
- Using the high-quality and wide-band ferrite cores for LAN.
- Packaging specification is taping and bulk(TLA-3T10□LF-T: Tape and reel, TLA-3T10 □LF: Bulk).

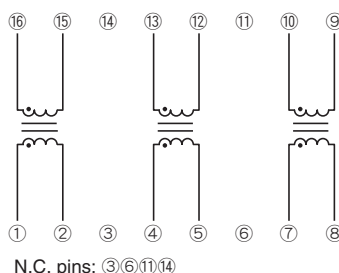
GENERAL SPECIFICATIONS

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

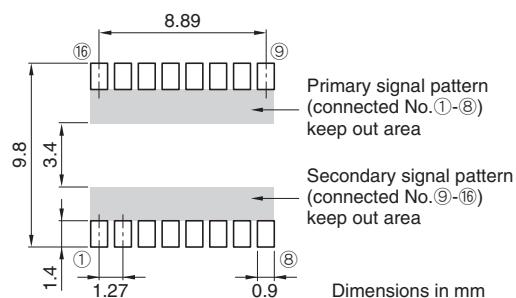
SHAPES AND DIMENSIONS



CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

| Part No. | Turns ratio ①②:⑯⑰ ④⑤:⑬⑭ ⑦⑧:⑩⑪ | Inductance (μH)typ.[100kHz] | Leakage inductance (μH)max.[100kHz] ①-②[⑯⑰ shorted] ④-⑤[⑬⑭ shorted] ⑦-⑧[⑩⑪ shorted] | Inter-winding stray capacitance (pF)max.[100kHz] ①②-⑯⑰ ④⑤-⑬⑭ ⑦⑧-⑩⑪ | DC resistance (Ω)max. ①-②, ⑯⑰ ④-⑤, ⑬⑭ ⑦-⑧, ⑩⑪ |
|-----------------|--|--------------------------------|---|---|---|
| TLA-3T101LF(-T) | 1:1 | 100 | 0.25 | 10 | 0.35, 0.35 |
| TLA-3T108LF(-T) | 1:1 | 75 | 0.25 | 10 | 0.35, 0.35 |

- Ta=25°C

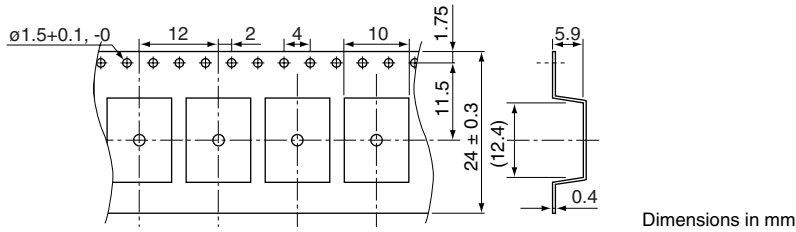
• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

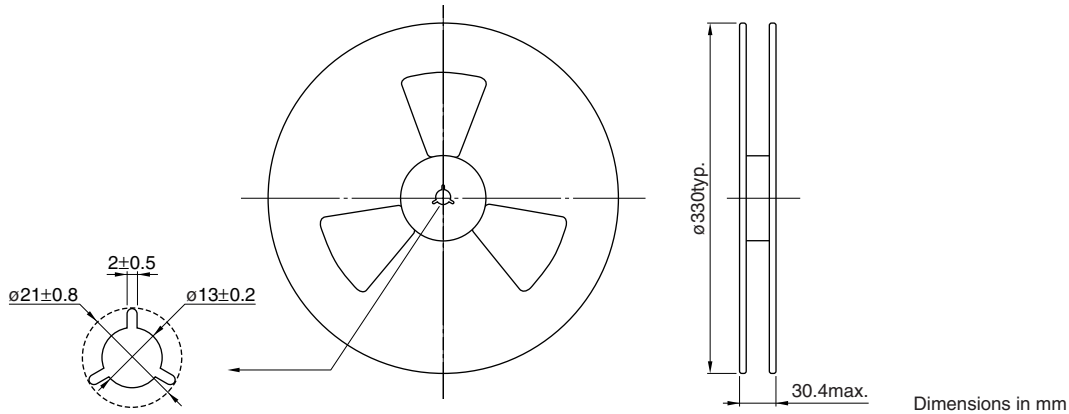
PACKAGING STYLES

Quantity : 1000pieces/reel

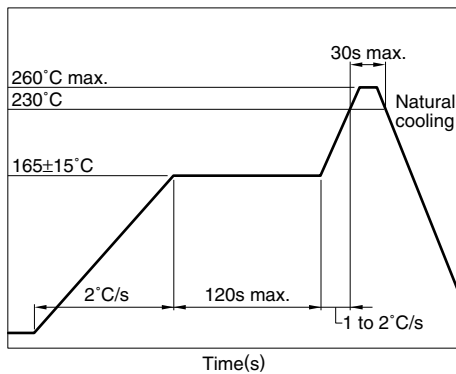
TAPE DIMENSIONS



REEL DIMENSIONS



RECOMMENDED SOLDERING CONDITION REFLOW SOLDERING



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.

- 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).

TLA-3T106LF(-T)/107LF(-T) ISO8802.3(IEEE802.3) 10BASE-T

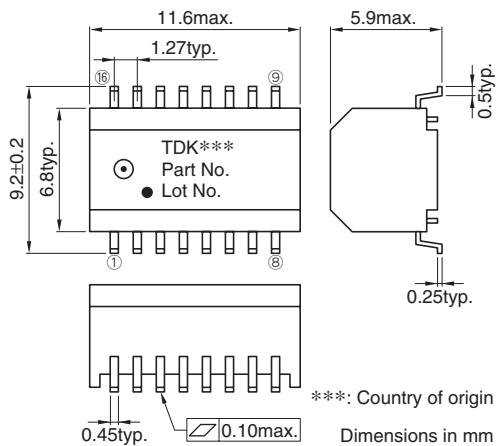
FEATURES

- Product conforming to RoHS directive.
- Can be mounted with lead-free solder (260°C max.).
- 16-pin SMD package(1.27mm=50mil pin pitch).
- Using the high-quality and wide-band ferrite cores for LAN.
- Packaging specification is taping and bulk(TLA-3T10□LF-T: Tape and reel, TLA-3T10 □LF: Bulk).

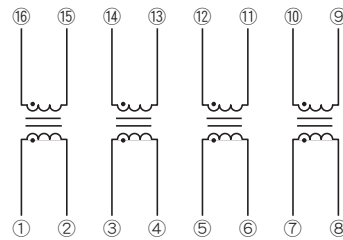
GENERAL SPECIFICATIONS

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

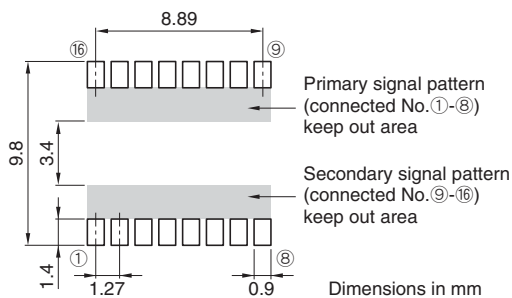
SHAPES AND DIMENSIONS



CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

| Part No. | Turns ratio ①②:⑯⑰ ③④:⑭⑮ ⑤⑥:⑫⑬ ⑦⑧:⑩⑪ | Inductance (μH)min.[100kHz] ①-② ③-④ ⑤-⑥ ⑦-⑧ | Leakage inductance (μH)max.[100kHz] ①-②[⑯-⑰ shorted] ③-④[⑭-⑮ shorted] ⑤-⑥[⑫-⑬ shorted] ⑦-⑧[⑩-⑪ shorted] | Inter-winding stray capacitance (pF)max.[100kHz] ①②-⑯⑰ ③④-⑭⑮ ⑤⑥-⑫⑬ ⑦⑧-⑩⑪ | DC resistance (Ω)max. ①-②, ⑯-⑰ ③-④, ⑭-⑮ ⑤-⑥, ⑫-⑬ ⑦-⑧, ⑩-⑪ |
|-----------------|---|--|--|--|--|
| TLA-3T106LF(-T) | 1:1 | 130 | 0.3 | 12 | 0.4, 0.4 |
| TLA-3T107LF(-T) | 1:1.41 | 130 | 0.3 | 12 | 0.4, 0.5 |

- Ta=25°C

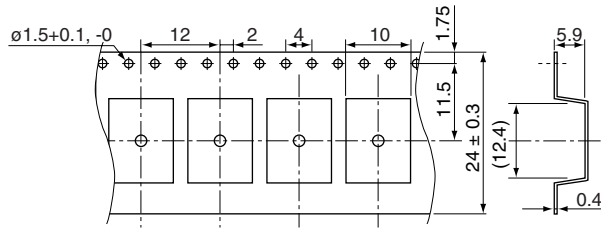
• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

PACKAGING STYLES

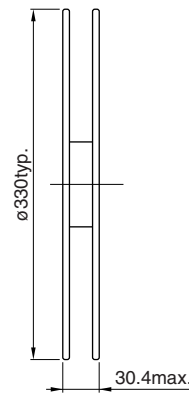
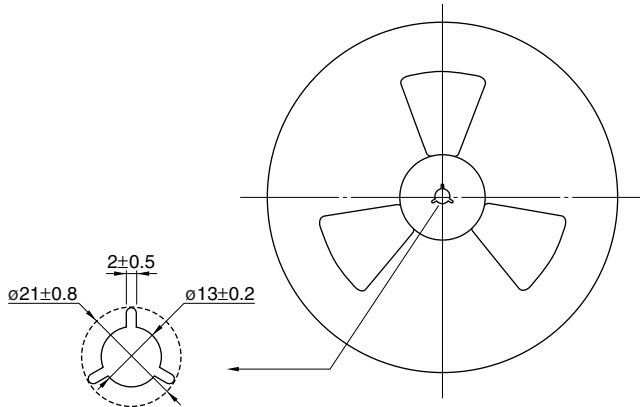
Quantity : 1000pieces/reel

TAPE DIMENSIONS



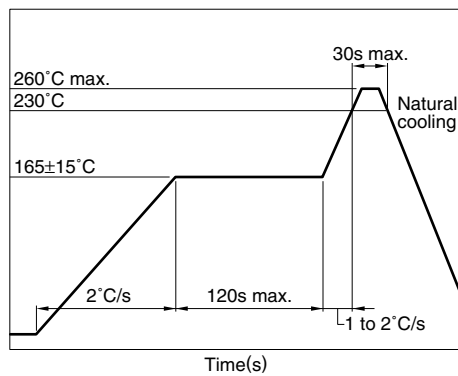
Dimensions in mm

REEL DIMENSIONS



Dimensions in mm

RECOMMENDED SOLDERING CONDITION REFLOW SOLDERING



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.

- 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).

TLA-3T105LF(-T)/109LF(-T)/110LF(-T)/112LF(-T) ISO8802.3(IEEE802.3) 10BASE-T

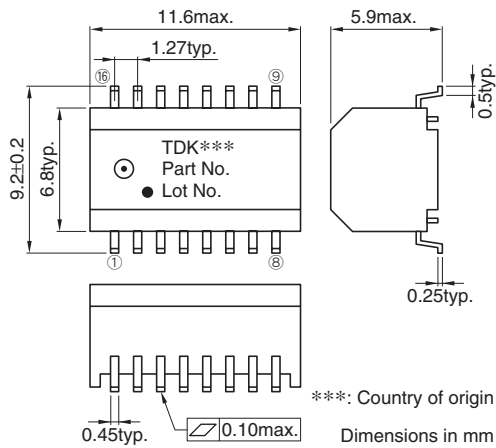
FEATURES

- Product conforming to RoHS directive.
- Can be mounted with lead-free solder (260°C max.).
- 16-pin SMD package(1.27mm=50mil pin pitch).
- Using the high-quality and wide-band ferrite cores for LAN.
- Packaging specification is taping and bulk(TLA-3T1□□LF-T: Tape and reel, TLA-3T1 □□LF: Bulk).

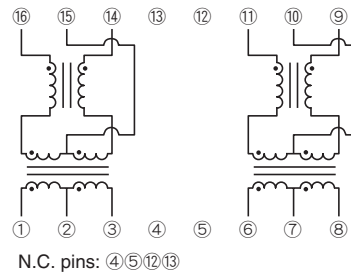
GENERAL SPECIFICATIONS

| | | |
|----------------------|-----------|------------------|
| Pulse transformer | | 2 |
| Common-mode choke | | 2 |
| Port | | 1 |
| Temperature ranges | Operating | 0 to +70°C |
| | Storage | −40 to +85°C |
| Withstanding voltage | | Erms: 2000V[60s] |

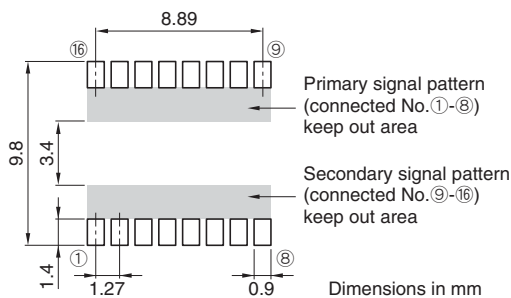
SHAPES AND DIMENSIONS



CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

| Part No. | Turns ratio ①②③:⑫⑪⑩⑨ ⑥⑦⑧:⑪⑩⑨ | Inductance (μH)min.[100kHz] ①-③ ⑥-⑧ | Leakage inductance (μH)max.[100kHz] ①-③[⑫-⑪ shorted] ⑥-⑧[⑪-⑩ shorted] | Inter-winding stray capacitance (pF)max.[100kHz] ①③-⑫⑪⑩⑨ ⑥⑧-⑪⑩⑨ | DC resistance (Ω)max. ①-③ ⑥-⑧ |
|-----------------|------------------------------------|--|--|---|--|
| TLA-3T105LF(-T) | 1CT:1CT | 130 | 0.3 | 12 | 0.5 |
| TLA-3T109LF(-T) | 1CT:1CT | 130 | 0.3 | 12 | 0.5 |
| TLA-3T110LF(-T) | 2CT:1CT | 130 | 0.95 | 12 | 0.5 |
| | 1CT:1CT | 130 | 0.35 | 12 | 0.5 |
| TLA-3T112LF(-T) | 1CT:1CT | 130 | 0.35 | 12 | 0.5 |
| | 1CT:1.41CT | 130 | 0.35 | 12 | 0.5 |
| TLA-3T112LF(-T) | 1CT:1CT | 130 | 0.35 | 12 | 0.85 |
| | 1CT:2.5CT | 130 | 0.35 | 12 | 0.85 |

- Ta=25°C

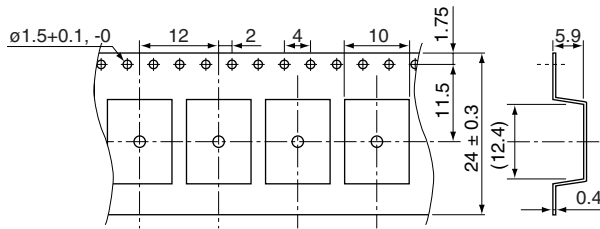
• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

PACKAGING STYLES

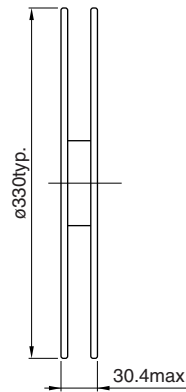
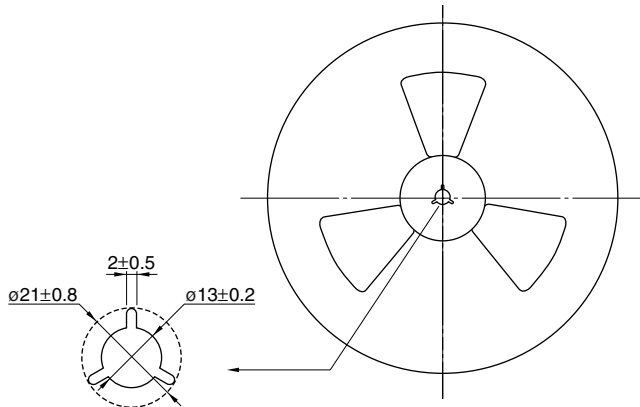
Quantity : 1000pieces/reel

TAPE DIMENSIONS



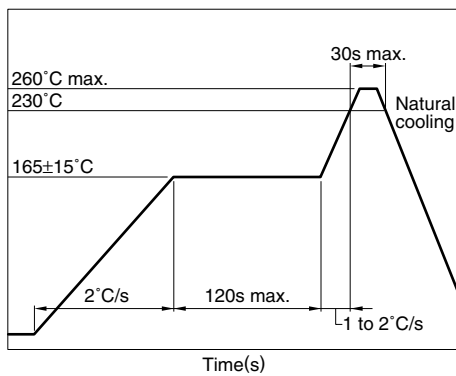
Dimensions in mm

REEL DIMENSIONS



Dimensions in mm

RECOMMENDED SOLDERING CONDITION REFLOW SOLDERING



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.

- 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).

TLA-6T103LF(-T) ISO8802.3(IEEE802.3) 10/100BASE-TX & ATM

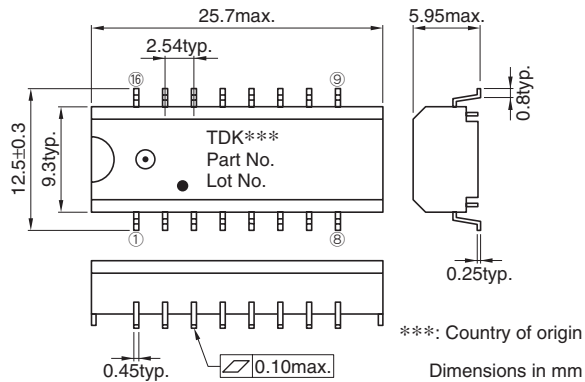
FEATURES

- Product conforming to RoHS directive.
- Can be mounted with lead-free solder (260°C max.).
- 16-pin SMD package(2.54mm=100mil 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-6T103LF-T: Tape and reel, TLA-6T103LF: Bulk).

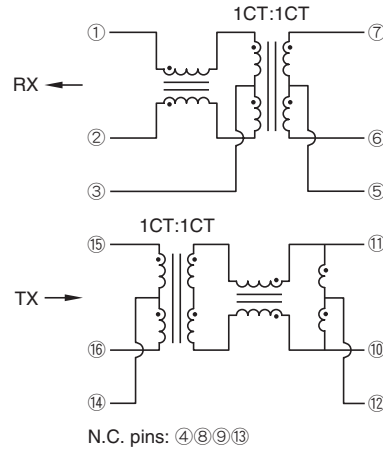
GENERAL SPECIFICATIONS

| | | |
|----------------------|-----------------|--------------|
| Pulse transformer | 2 | |
| Common-mode choke | 2 | |
| Inductor | 1 | |
| Port | 1 | |
| Temperature ranges | Operating | 0 to +70°C |
| | Storage | −40 to +85°C |
| Withstanding voltage | Erms:1500V[60s] | |

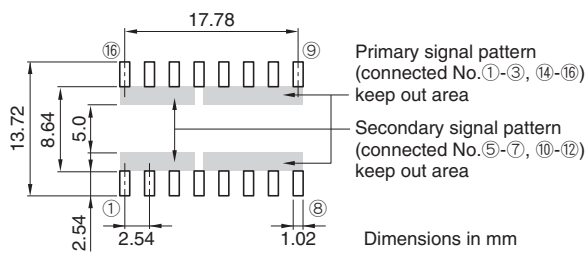
SHAPES AND DIMENSIONS



CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

| Part No. | Turns ratio ⑮⑭⑬ : ⑪⑫⑩ ①③② : ⑦⑤⑥ | Inductance (μH)min. [DC bias 8mA, 100kHz] ⑪-⑩ ⑦-⑥ | Insertion loss (dB)max. [0.1 to 100MHz] ⑮⑬-⑪⑩ ⑦⑥-①② | Inter-winding stray capacitance (pF)max.[100kHz] ⑮⑬-⑪⑩ ①②-⑦⑥ |
|-----------------|---------------------------------------|---|---|--|
| TLA-6T103LF(-T) | 1CT:1CT | 350 | 1 | 25 |
| | 1CT:1CT | 350 | 1 | 25 |

- Ta=25°C

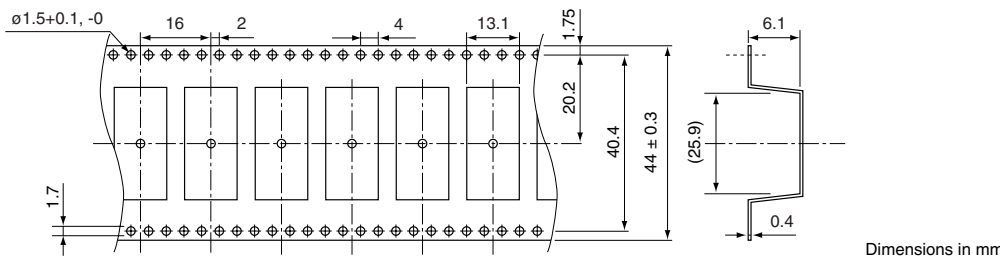
• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

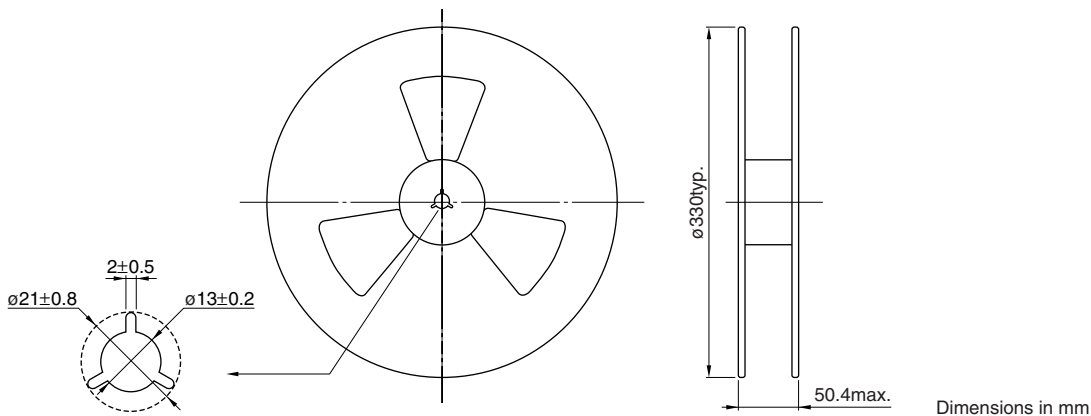
PACKAGING STYLES

Quantity : 600pieces/reel

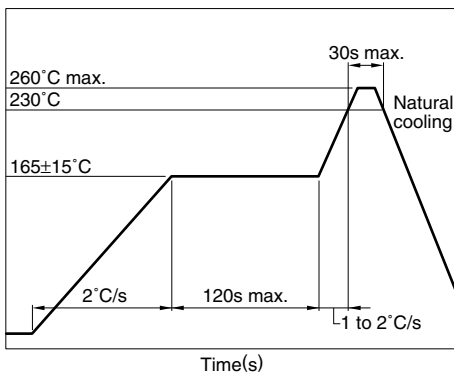
TAPE DIMENSIONS



REEL DIMENSIONS



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 $+30^\circ\text{C}$

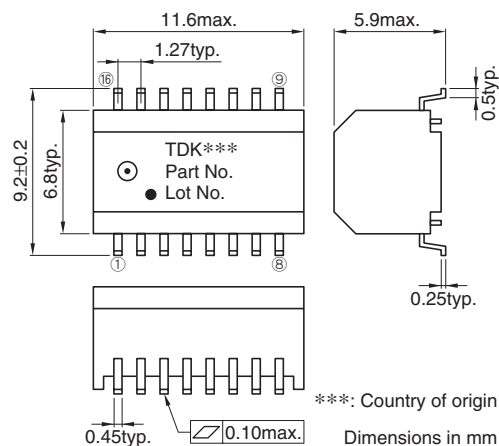
Humidity: 60(%)RH max.

TLA-6T118LF/119LF/120LF/121LF/122LF(-T) ISO8802.3(IEEE802.3) 10/100BASE-TX

FEATURES

- Product conforming to RoHS directive.
- Can be mounted with lead-free solder (260°C max.).
- 16-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-6T1□□LF-T: Tape and reel, TLA-6T1 □□LF: Bulk).

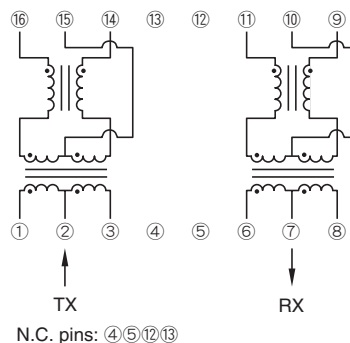
SHAPES AND DIMENSIONS



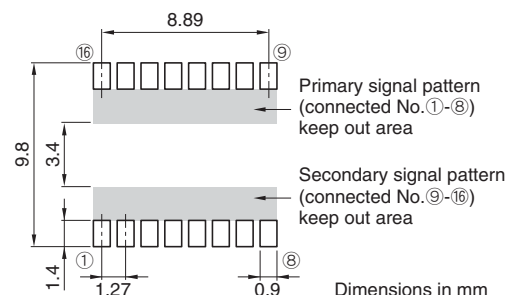
GENERAL SPECIFICATIONS

| | | |
|----------------------|-----------------|--------------|
| Pulse transformer | 2 | |
| Common-mode choke | 2 | |
| Port | 1 | |
| Temperature ranges | Operating | 0 to +70°C |
| | Storage | -40 to +85°C |
| Withstanding voltage | Erms:1500V[60s] | |

CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

| Part No. | Turns ratio ①②③ : ⑯⑮⑭ ⑥⑦⑧ : ⑪⑩⑨ | Inductance (μH)min. [DC bias 8mA, 100kHz] ⑯-⑭ ⑪-⑨ | Insertion loss (dB)max. [0.1 to 100MHz] ①③-⑯⑭ ⑪⑨-⑥⑧ | Inter-winding stray capacitance (pF)max.[100kHz] ①③-⑯⑭ ⑥⑧-⑪⑨ |
|-----------------|---------------------------------------|---|---|--|
| TLA-6T118LF(-T) | 1CT:1CT | 350 | 1 | 25 |
| TLA-6T119LF(-T) | 1CT:1CT | 350 | 1 | 25 |
| TLA-6T120LF(-T) | 1.41CT:1CT | 350 | 2 | 25 |
| TLA-6T121LF(-T) | 2CT:1CT | 350 | 3.5 | 25 |
| TLA-6T122LF(-T) | 1CT:1CT | 350 | 1 | 25 |
| TLA-6T121LF(-T) | 1CT:1.41CT | 350 | 2.5 | 25 |
| TLA-6T122LF(-T) | 1CT:1CT | 350 | 1 | 25 |
| TLA-6T122LF(-T) | 1.25CT:1CT | 350 | 2 | 25 |
| TLA-6T122LF(-T) | 1CT:1CT | 350 | 1 | 25 |

• Ta=25°C

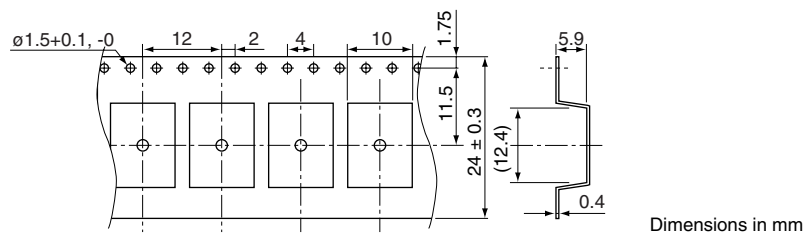
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• All specifications are subject to change without notice.

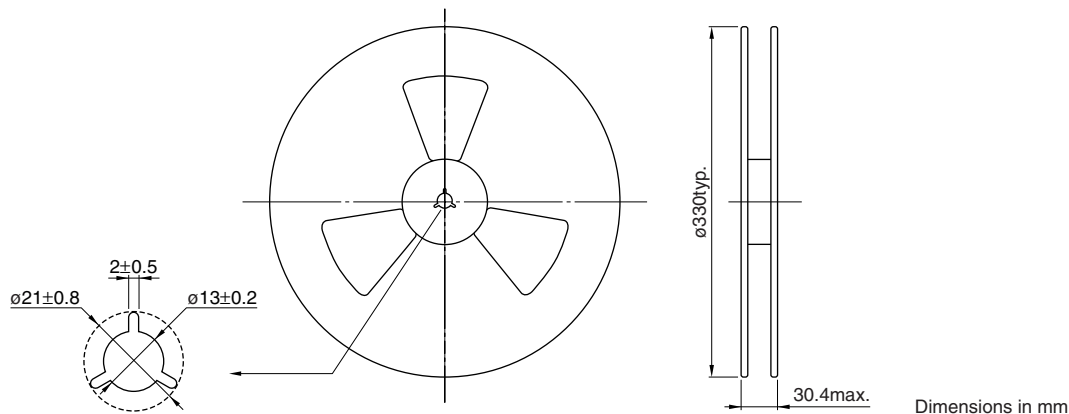
PACKAGING STYLES

Quantity : 1000pieces/reel

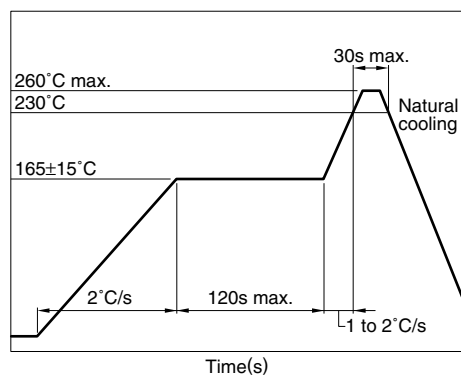
TAPE DIMENSIONS



REEL DIMENSIONS



RECOMMENDED SOLDERING CONDITION REFLOW SOLDERING



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.

- 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).

TLA-6T127LF(-T) ISO8802.3(IEEE802.3) 10/100BASE-TX, POWER OVER ETHERNET

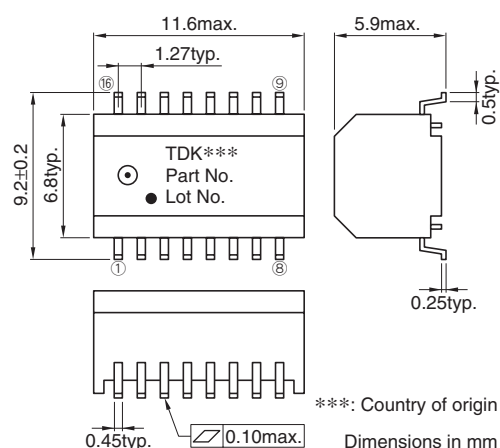
FEATURES

- Product conforming to RoHS directive.
- Can be mounted with lead-free solder (260°C max.).
- 16-pin SMD package(1.27mm=50mil pin pitch).
- Inductance is 350μH or greater (f=100kHz, DC bias=8mA).
- Allowable current is 350mA max.
- Excellent common mode noise suppression under the power transmission.
- Packaging specification is taping and bulk(TLA-6T127LF-T: Tape and reel, TLA-6T127LF: Bulk).

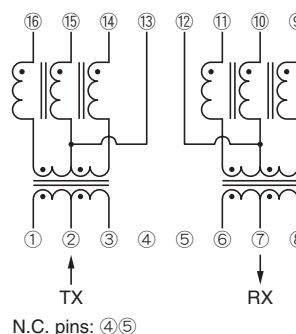
GENERAL SPECIFICATIONS

| | | |
|----------------------|-----------|-----------------|
| Pulse transformer | | 2 |
| Common-mode choke | | 2 |
| Port | | 1 |
| Temperature ranges | Operating | 0 to +70°C |
| | Storage | -40 to +85°C |
| Withstanding voltage | | Erms:1500V[60s] |

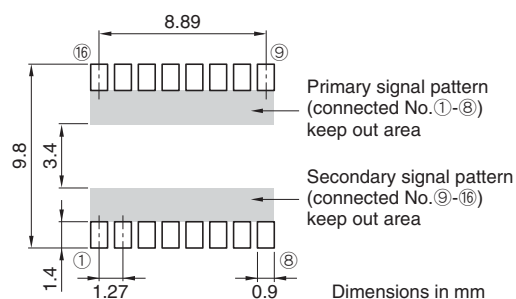
SHAPES AND DIMENSIONS



CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

| Part No. | Turns ratio ①②③ : ⑯⑮⑭ ⑥⑦⑧ : ⑪⑩⑨ | Inductance (μH)min. [DC bias 8mA, 100kHz] ⑯-⑭ ⑪-⑨ | Insertion loss (dB)max. [0.1 to 100MHz] ①③-⑯⑭ ⑪⑨-⑥⑧ | Inter-winding stray capacitance (pF)max.[100kHz] ①③-⑯⑭ ⑥⑧-⑪⑨ |
|-----------------|---------------------------------------|---|---|--|
| TLA-6T127LF(-T) | 1CT:1CT 1CT:1CT | 350 350 | 1 1 | 25 25 |

- Ta=25°C

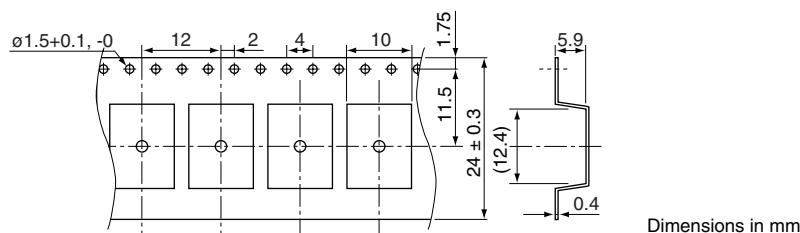
• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

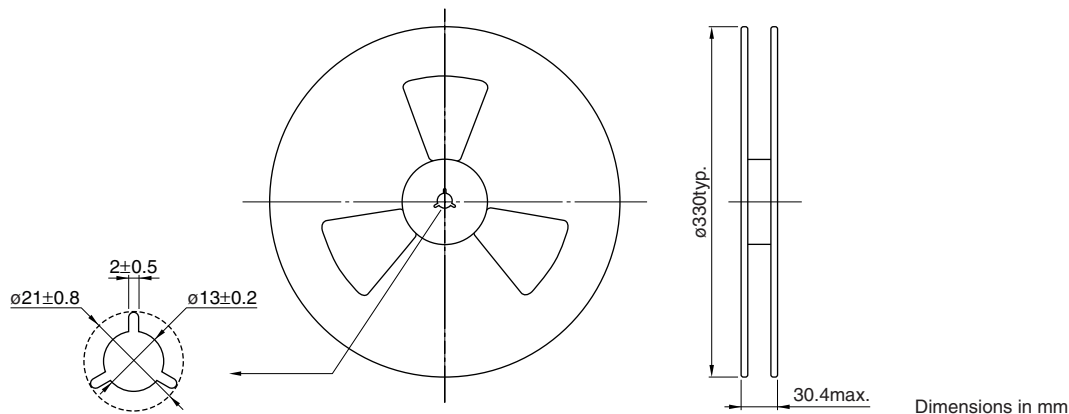
PACKAGING STYLES

Quantity : 1000pieces/reel

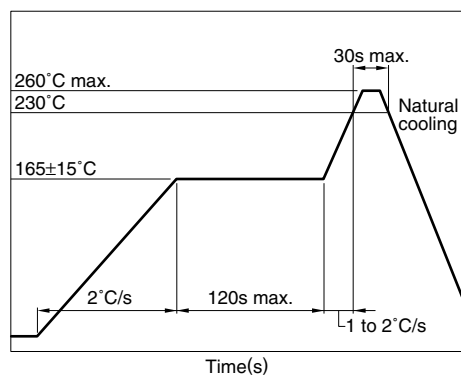
TAPE DIMENSIONS



REEL DIMENSIONS



RECOMMENDED SOLDERING CONDITION REFLOW SOLDERING



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.

- 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).

TLA-6T133WLF(-T) ISO8802.3(IEEE802.3) 10/100BASE-TX

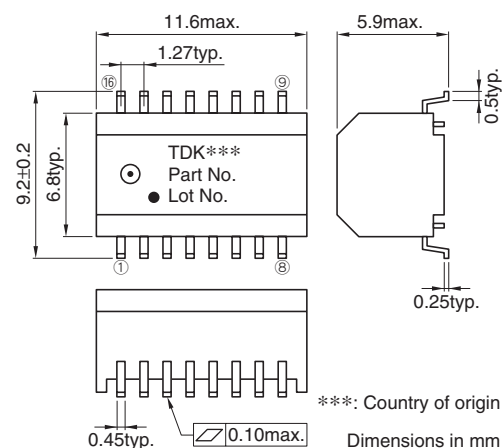
FEATURES

- Can be used in the wide range of temperature(−40 to +85°C).
- Product conforming to RoHS directive.
- Can be mounted with lead-free solder (260°C max.).
- 16-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-6T133WLF-T:
Tape and reel, TLA-6T133WLF: Bulk).

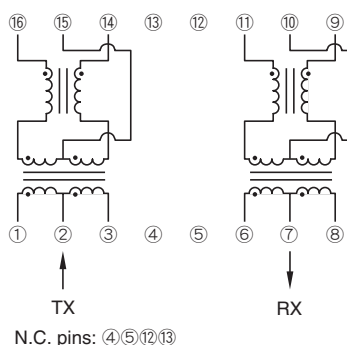
GENERAL SPECIFICATIONS

| | | |
|----------------------|-----------|-----------------|
| Pulse transformer | | 2 |
| Common-mode choke | | 2 |
| Port | | 1 |
| Temperature ranges | Operating | −40 to +85°C |
| | Storage | −40 to +85°C |
| Withstanding voltage | | Erms:1500V[60s] |

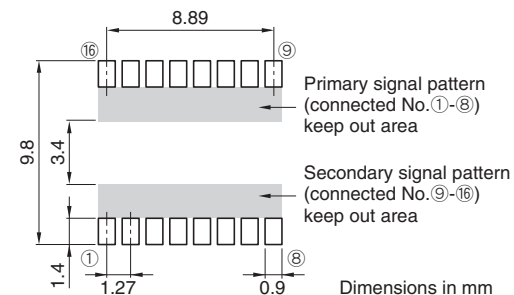
SHAPES AND DIMENSIONS



CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

| Part No. | Turns ratio ①②③ : ⑯⑮⑭ ⑥⑦⑧ : ⑪⑩⑨ | Inductance (μH)min. [DC bias 8mA, 100kHz] ⑯-⑭ ⑪-⑨ | Insertion loss (dB)max. [0.1 to 100MHz] ①③-⑯⑭ ⑪⑨-⑥⑧ | Inter-winding stray capacitance (pF)max.[100kHz] ①③-⑯⑭ ⑥⑧-⑪⑨ |
|------------------|---------------------------------------|---|---|--|
| TLA-6T133WLF(-T) | 1CT:1CT 1CT:1CT | 350 350 | 1 1 | 25 25 |

- Ta=25°C

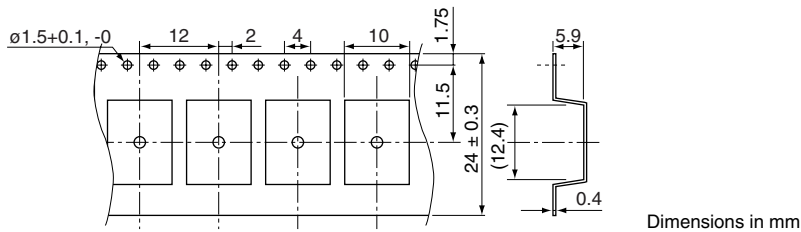
• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

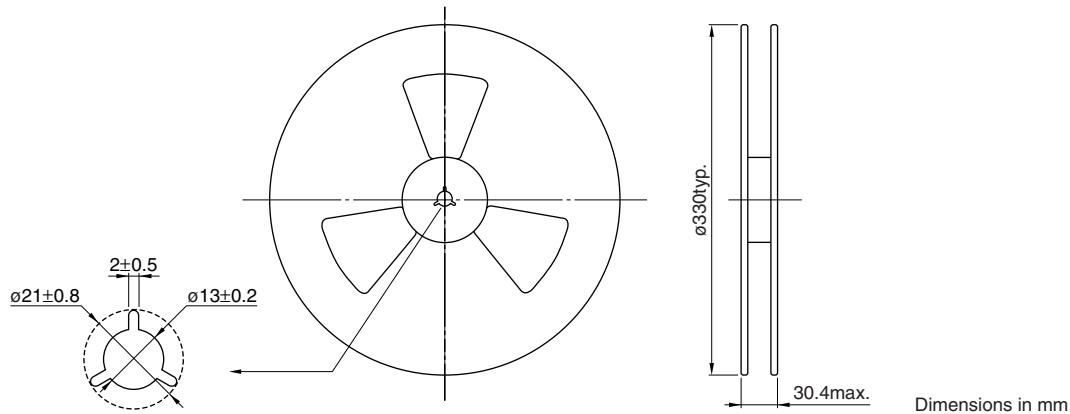
PACKAGING STYLES

Quantity : 1000pieces/reel

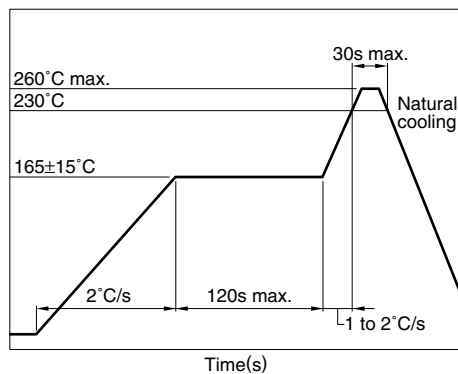
TAPE DIMENSIONS



REEL DIMENSIONS



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.

TLA-6T214ALF(-T) ISO8802.3(IEEE802.3) 10/100/1000BASE-T

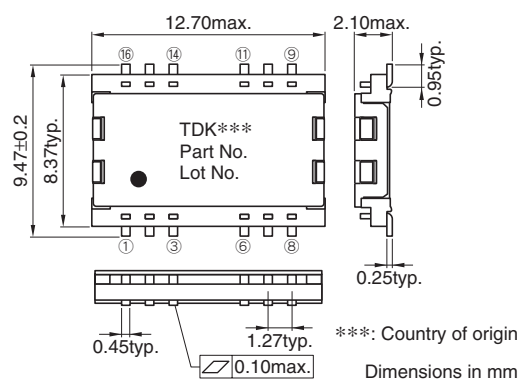
FEATURES

- Product conforming to RoHS directive.
- Can be mounted with lead-free solder (260°C max.).
- 16-pin SMD package(1.27mm=50mil pin pitch).
- Low profile (H)2.1mm max. for note PC application.
- 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-6T214ALF-T: Tape and reel, TLA-6T214ALF: Bulk).

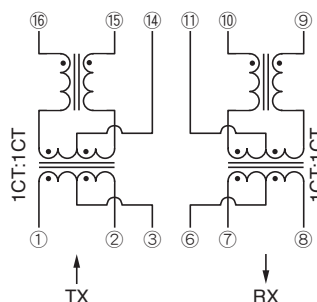
GENERAL SPECIFICATIONS

| | | |
|----------------------|-----------|-----------------|
| Pulse transformer | | 2 |
| Common-mode choke | | 2 |
| Port | | 1 |
| Temperature ranges | Operating | 0 to +70°C |
| | Storage | −40 to +85°C |
| Withstanding voltage | | Erms:1500V[60s] |

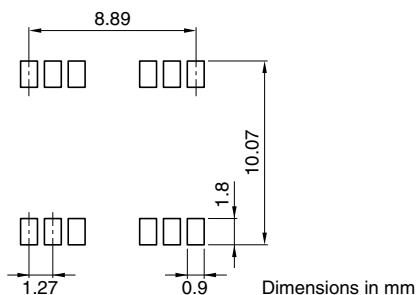
SHAPES AND DIMENSIONS



CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

| Part No. | Turns ratio ①③②:①⑥④⑤ ⑦⑥⑧:⑩⑪⑨ | Inductance (μH)min. [DC bias 8mA, 100kHz] ①⑥-①⑤ ⑩-⑨ | Insertion loss (dB)max. [0.1 to 125MHz] ①②-①⑥⑤ ⑩⑨-⑦⑧ | Inter-winding stray capacitance (pF)max.[100kHz] ①②-①⑥⑤ ⑩⑨-⑦⑧ |
|------------------|------------------------------------|---|--|---|
| TLA-6T214ALF(-T) | 1CT:1CT | 350 | 1 | 25 |
| | 1CT:1CT | 350 | 1 | 25 |

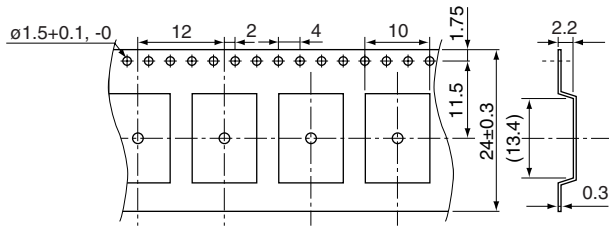
- Ta=25°C

• 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.

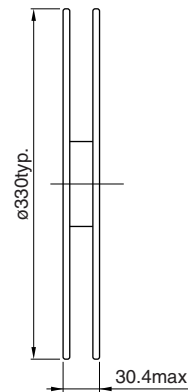
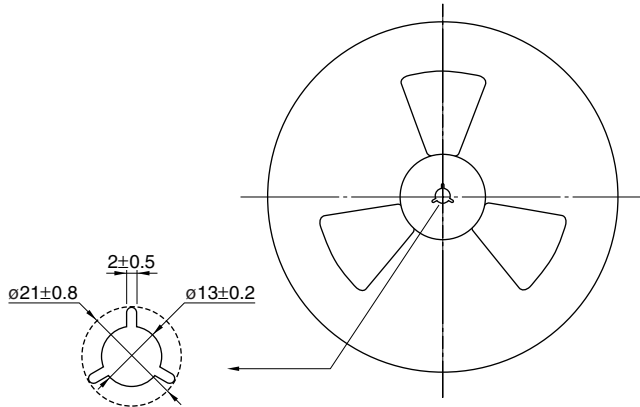
Quantity : 1500pieces/reel

TAPE DIMENSIONS



Dimensions in mm

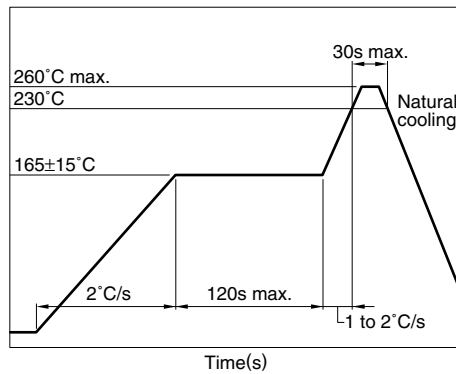
REEL DIMENSIONS



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-planarity.
- 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

TLA-6T213LF(-T) ISO8802.3(IEEE802.3) 10/100/1000BASE-T

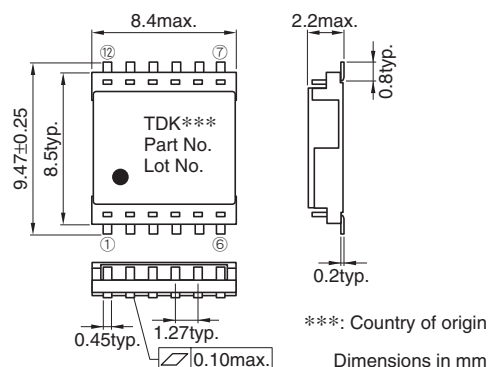
FEATURES

- Product conforming to RoHS directive.
- Can be mounted with lead-free solder (260°C max.).
- 12-pin SMD package(1.27mm=50mil pin pitch).
- Because it is low profile design of 2.2mm max., space saving is possible and is suitable for notebook PC.
- 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-6T213LF-T: Tape and reel, TLA-6T213LF: Bulk).

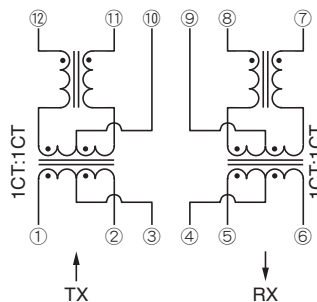
GENERAL SPECIFICATIONS

| | | |
|----------------------|-----------|-----------------|
| Pulse transformer | | 2 |
| Common-mode choke | | 2 |
| Port | | 1 |
| Temperature ranges | Operating | 0 to +70°C |
| | Storage | −40 to +85°C |
| Withstanding voltage | | Erms:1500V[60s] |

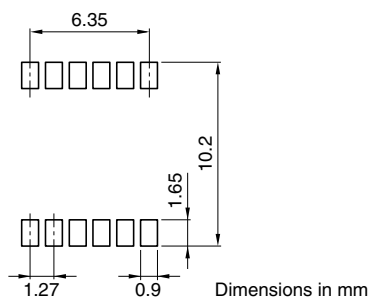
SHAPES AND DIMENSIONS



CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

| Part No. | Turns ratio ①③②:⑫⑩⑪ ⑤④⑥:⑧⑨⑦ | Inductance (μH)min. [DC bias 8mA, 100kHz] ⑫-⑪ ⑧-⑦ | Insertion loss (dB)max. [0.1 to 100MHz] ①②-⑫⑪ ⑧⑦-⑤⑥ | Inter-winding stray capacitance (pF)max.[100kHz] ①②-⑫⑪ ⑧⑦-⑤⑥ |
|-----------------|-----------------------------------|---|---|--|
| TLA-6T213LF(-T) | 1CT:1CT | 350 | 1 | 25 |

• Ta=25°C

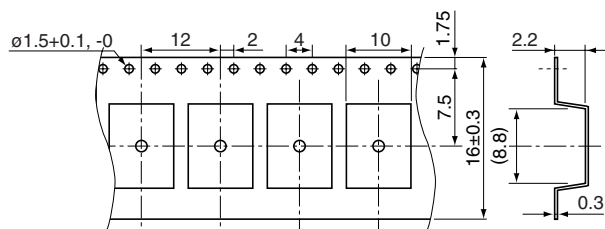
• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

PACKAGING STYLES

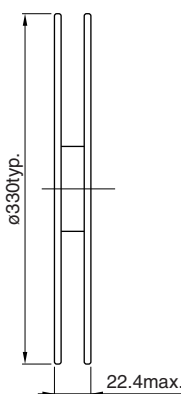
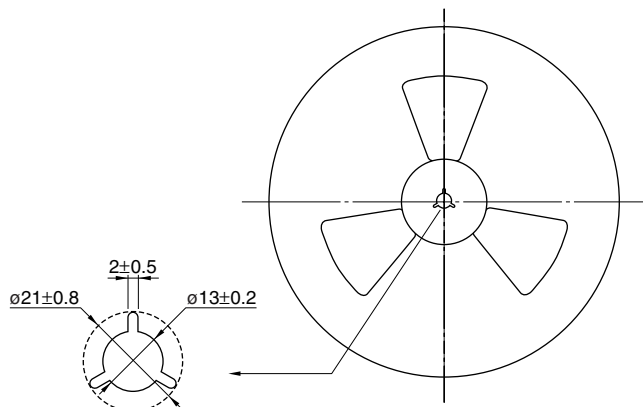
Quantity : 1500pieces/reel

TAPE DIMENSIONS



Dimensions in mm

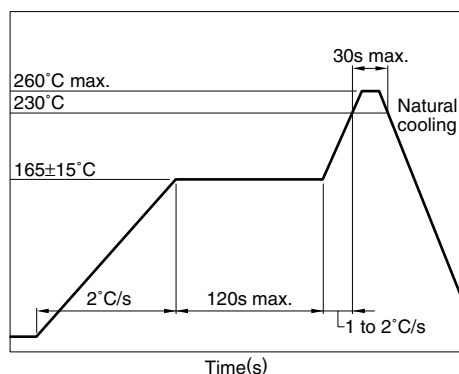
REEL DIMENSIONS



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-planarity.
- 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

TLA-7T201LF(-T) ISO8802.3(IEEE802.3) 10/100/1000BASE-T

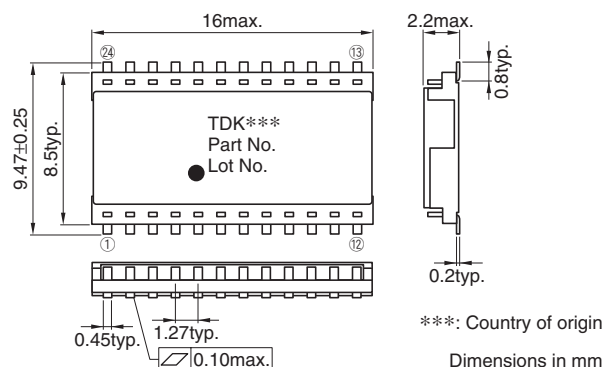
FEATURES

- Product conforming to RoHS directive.
- Can be mounted with lead-free solder (260°C max.).
- 24-pin SMD package(1.27mm=50mil pin pitch).
- Because it is low profile design of 2.2mm max., space saving is possible and is suitable for notebook PC.
- 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-7T201LF-T: Tape and reel, TLA-7T201LF: Bulk).

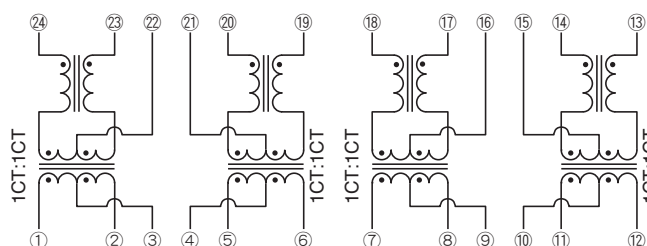
GENERAL SPECIFICATIONS

| | | |
|----------------------|-----------|-----------------|
| 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] |

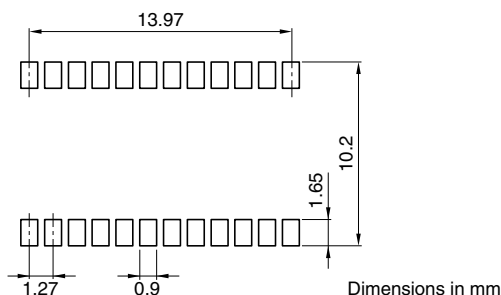
SHAPES AND DIMENSIONS



CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

| Part No. | Turns ratio ①③②:②④②②③ ⑤④⑥:②①①⑨ ⑦⑨⑧:①⑧①⑦ ⑪⑩⑫:①④①⑤⑬ | Inductance (μH)min. [DC bias 8mA, 100kHz] ②④-②③ ②①-①⑨ ①⑧-①⑦ ①④-①③ | Insertion loss (dB)max. [0.1 to 100MHz] ①②-②④②③ ⑤⑥-②①①⑨ ⑦⑧-①⑧①⑦ ⑪⑫-①④①③ | Inter-winding stray capacitance (pF)max.[100kHz] ①②-②④②③ ⑤⑥-②①①⑨ ⑦⑧-①⑧①⑦ ⑪⑫-①④①③ |
|-----------------|---|---|---|--|
| TLA-7T201LF(-T) | 1CT:1CT | 350 | 1 | 25 |

- Ta=25°C

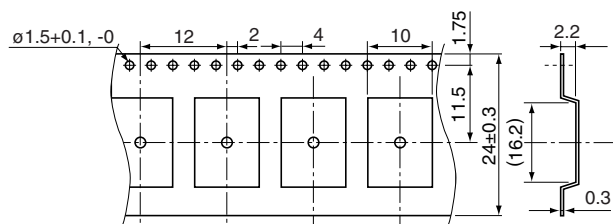
• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

PACKAGING STYLES

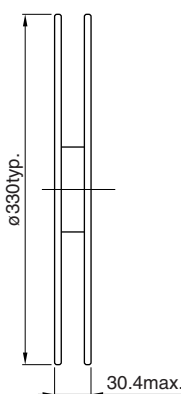
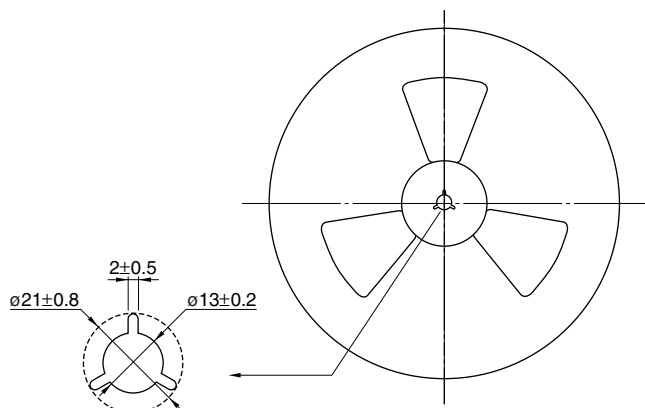
Quantity : 1500pieces/reel

TAPE DIMENSIONS



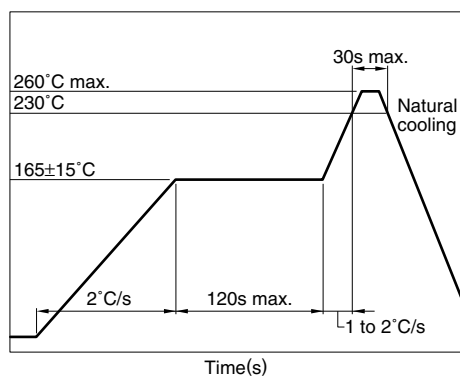
Dimensions in mm

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

TLA-6T404(-T) ISO8802.3(IEEE802.3) 10/100BASE-TX

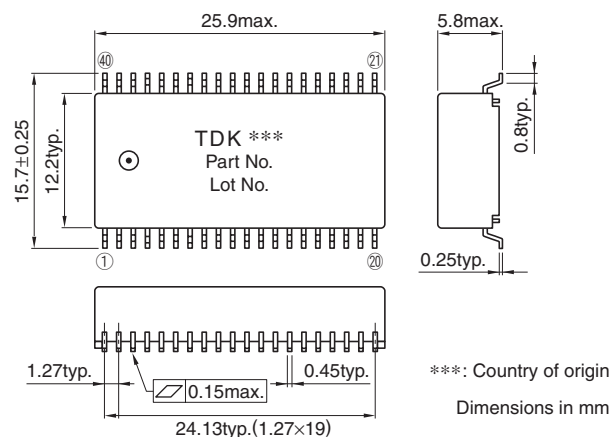
FEATURES

- Product conforming to RoHS directive.
- 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-6T404-T: Tape and reel, TLA-6T404: Bulk).

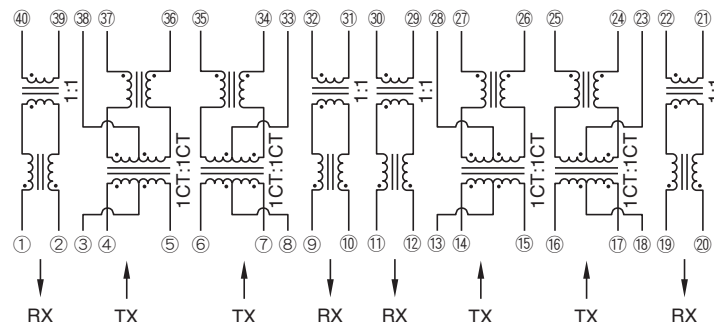
GENERAL SPECIFICATIONS

| | | |
|----------------------|-----------|-----------------|
| 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] |

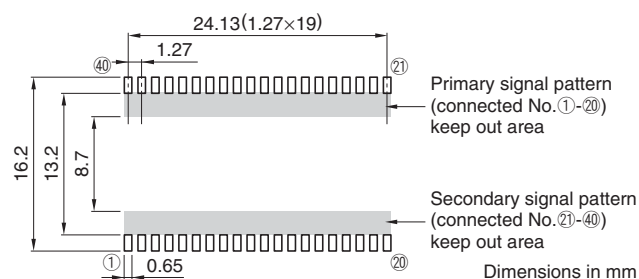
SHAPES AND DIMENSIONS



CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

| Part No. | Turns ratio ④③⑤:③⑦③③③..... ①②:④③③..... | Inductance (μH)min. [DC bias 8mA, 100kHz] ③⑦-③③..... ④③-③③..... | Insertion loss (dB)max. [0.1 to 100MHz] ④⑤-③⑦③..... ④③③-①②..... | Inter-winding stray capacitance (pF)max.[100kHz] ④⑤-③⑦③..... ①②-④③③..... |
|---------------|--|---|---|--|
| TLA-6T404(-T) | 1CT:1CT 1:1 | 350 350 | 1 1 | 25 25 |

• Ta=25°C

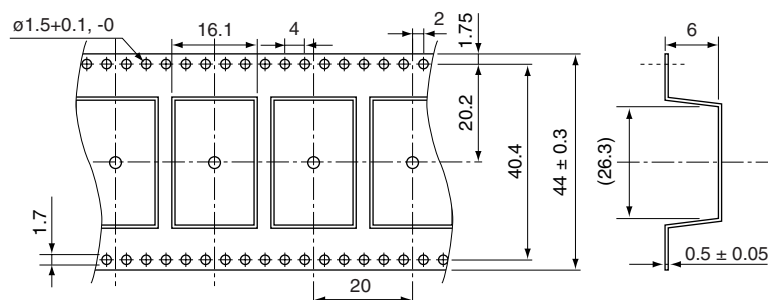
• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

PACKAGING STYLES

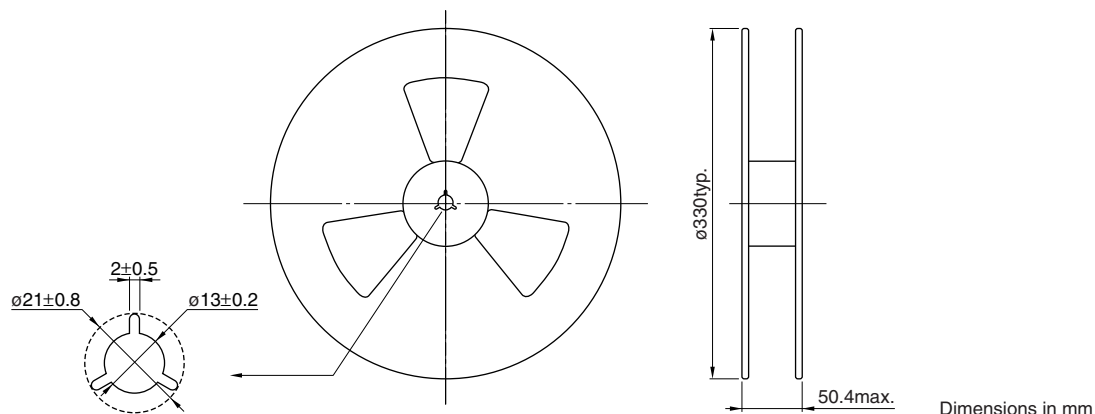
Quantity : 500pieces/reel

TAPE DIMENSIONS



Dimensions in mm

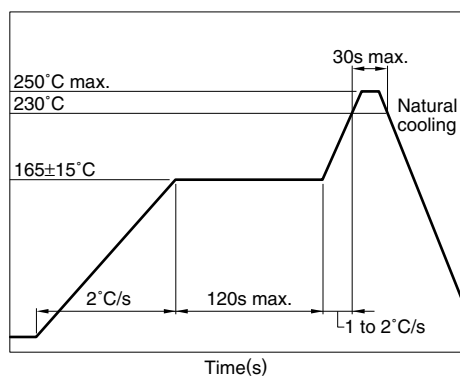
REEL DIMENSIONS



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-planarity.
- 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

TLA-6T406(-T) ISO8802.3(IEEE802.3) 10/100BASE-TX

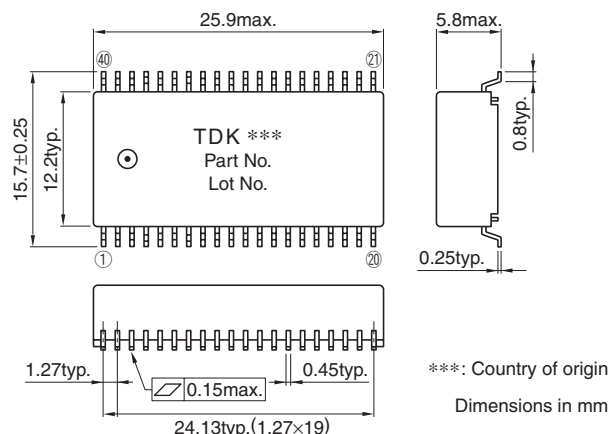
FEATURES

- Product conforming to RoHS directive.
- 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).

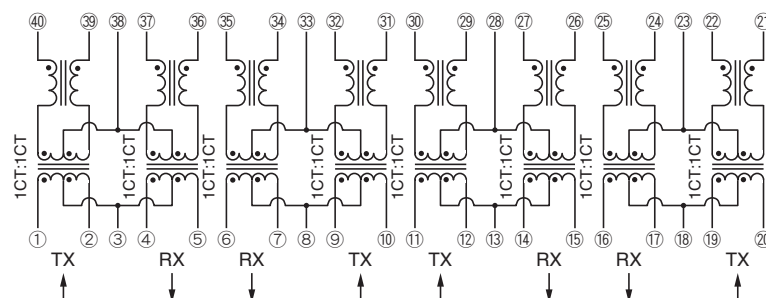
GENERAL SPECIFICATIONS

| | | |
|----------------------|-----------|-----------------|
| 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] |

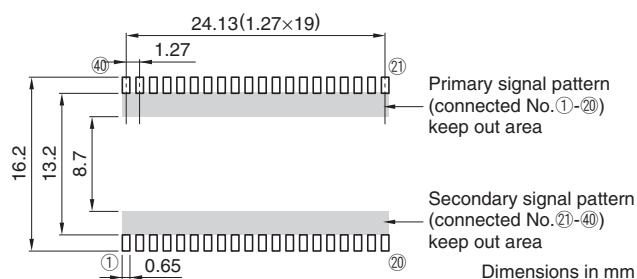
SHAPES AND DIMENSIONS



CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

| Part No. | Turns ratio | Inductance (μH)min. [DC bias 8mA, 100kHz] | Insertion loss (dB)max. [0.1 to 100MHz] | Inter-winding stray capacitance (pF)max.[100kHz] |
|---------------|--------------------------------|---|---|--|
| | ①③②:④③③③..... ④③⑤:③③③③..... | ④③-③③..... ③③-③③..... | ①②-④③③..... ④⑤-③③③..... | ①②-④③③..... ④⑤-③③③..... |
| TLA-6T406(-T) | 1CT:1CT | 350 | 1 | 40 |
| | 1CT:1CT | 350 | 1 | 40 |

• Ta=25°C

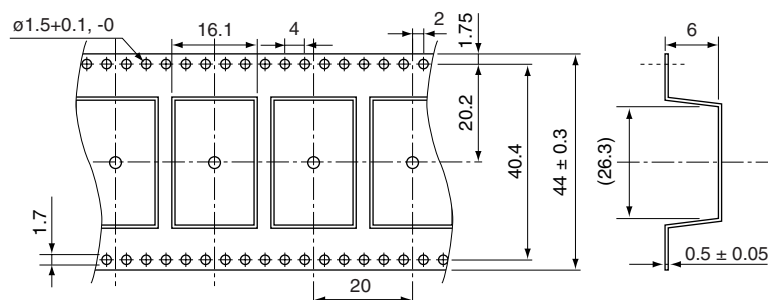
• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

PACKAGING STYLES

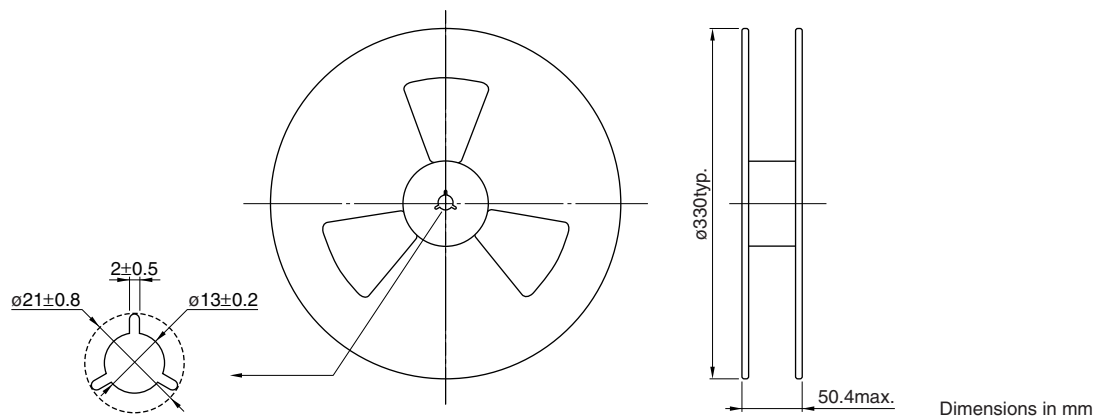
Quantity : 500pieces/reel

TAPE DIMENSIONS



Dimensions in mm

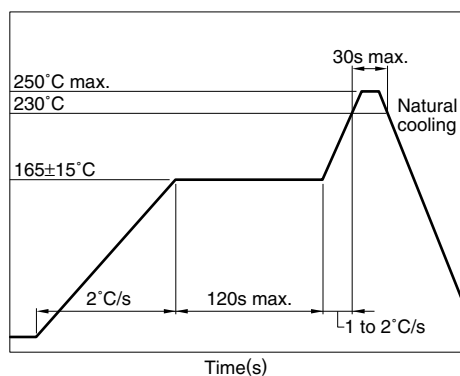
REEL DIMENSIONS



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-planarity.
- 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

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

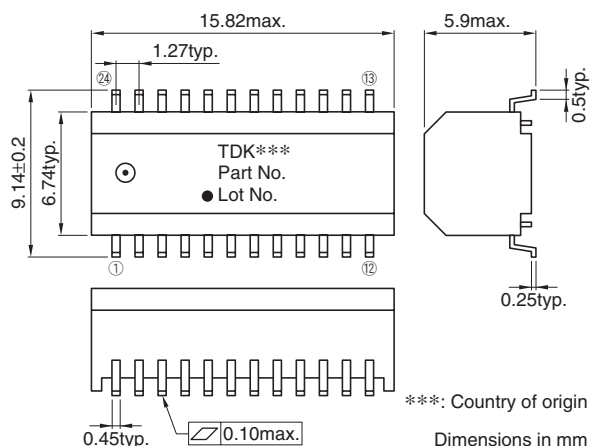
FEATURES

- 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).

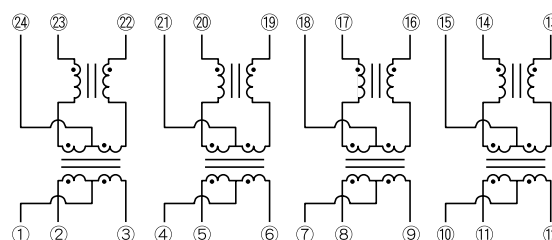
GENERAL SPECIFICATIONS

| | |
|----------------------|----------------------|
| 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] |

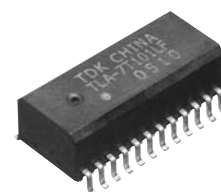
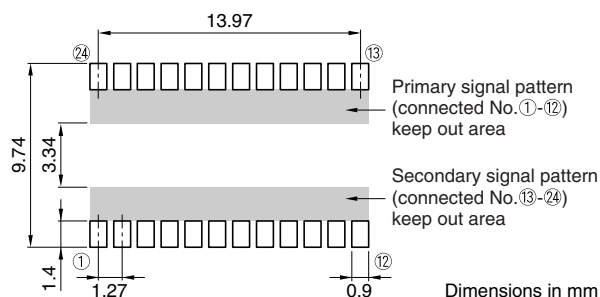
SHAPES AND DIMENSIONS



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 : ②③②④② | ②③-②② | ②③-②③② | ②③-②③② |
| | ⑤④⑥ : ②①②①⑨ | ②①-①⑨ | ⑤⑥-②①⑨ | ⑤⑥-②①⑨ |
| | ⑧⑦⑨ : ①⑦①⑧①⑥ | ①⑦-①⑥ | ⑧⑨-①⑦①⑥ | ⑧⑨-①⑦①⑥ |
| | ⑪⑩⑫ : ①④①⑤①③ | ①④-①③ | ⑪⑫-①④①③ | ⑪⑫-①④①③ |
| TLA-7T101LF(-T) | 1CT:1CT | 350 | 1 | 25 |

- Ta=25°C

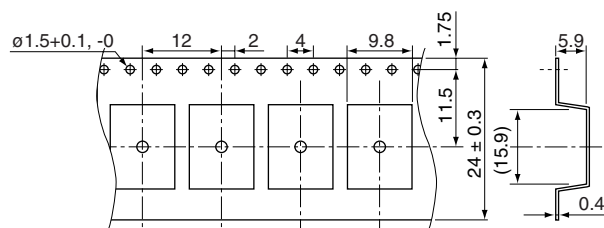
• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

PACKAGING STYLES

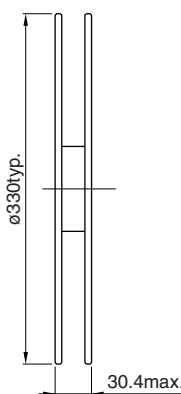
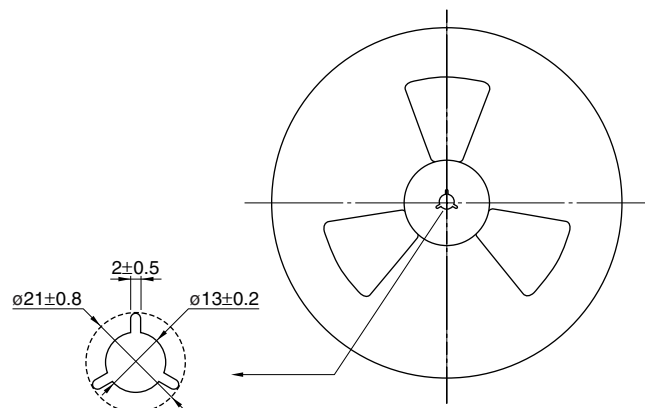
Quantity : 1000pieces/reel

TAPE DIMENSIONS



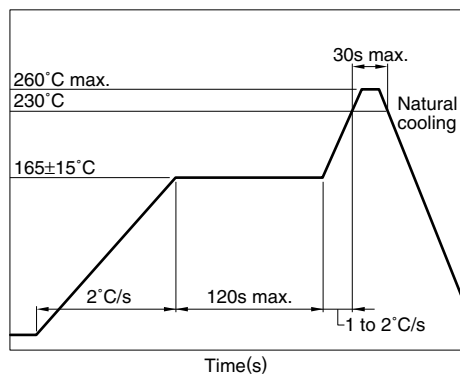
Dimensions in mm

REEL DIMENSIONS



Dimensions in mm

RECOMMENDED SOLDERING CONDITION REFLOW SOLDERING



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.

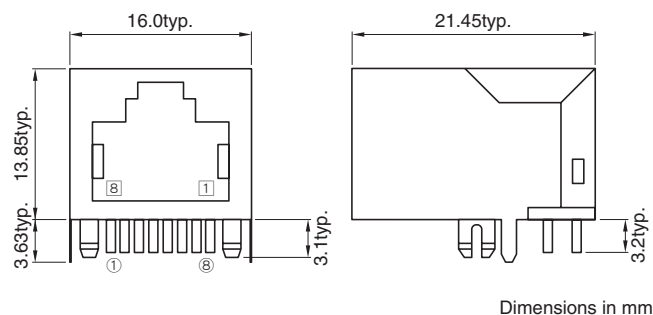
- Temperature is measured at the terminal portion of product (Using thermocoupler for measurement).
- This profile is reference data we recommend. Please check in your actual process.
- For reliable soldering, the thickness of solder paste screen should be over the terminal co-planality.
- The cutted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

TLA-6T718 ISO8802.3(IEEE802.3) 10/100BASE-TX

FEATURES

- Product conforming to RoHS directive.
- Pulse transformer, common mode choke, resistor and high with-standing voltage capacitor are integrated into RJ-45 modular jack.
- Excellent common mode noise suppression.
- Inductance is 350 μ H or greater ($f=100$ kHz, DC bias=8mA).
- Using the high-quality and wide-band ferrite cores for LAN.

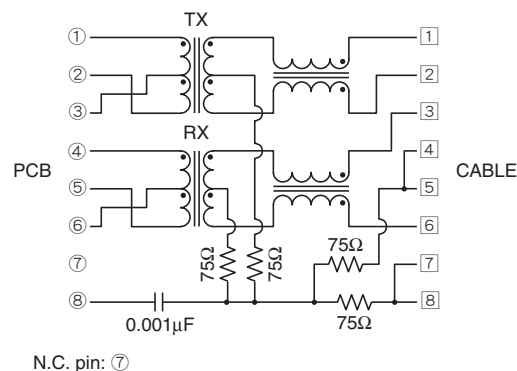
SHAPES AND DIMENSIONS



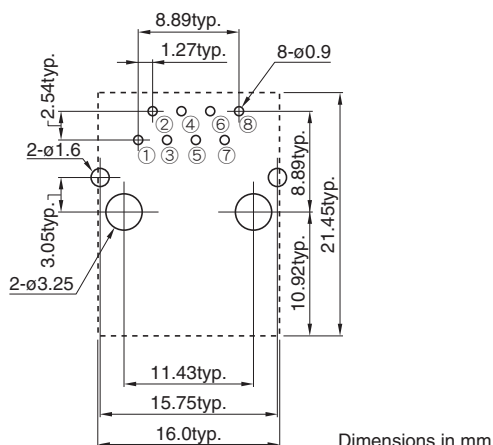
GENERAL SPECIFICATIONS

| | | |
|----------------------|-----------------|--------------|
| Pulse transformer | 2 | |
| Common-mode choke | 2 | |
| Port | 1 | |
| Temperature ranges | Operating | 0 to +70°C |
| | Storage | −40 to +85°C |
| Withstanding voltage | Erms:1500V[60s] | |

CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN[TOP VIEW]



ELECTRICAL CHARACTERISTICS

| Part No. | Turns ratio ①③②:①② ④⑥⑤:③⑥ | Inductance (μ H)min. [DC bias 8mA, 100kHz] ①-② ③-⑥ | Insertion loss (dB)max. [0.1 to 100MHz] ①②-①② ③⑥-④⑤ |
|-----------|---------------------------------|---|---|
| TLA-6T718 | 1CT:1 | 350 | 1 |
| | 1CT:1 | 350 | 1 |

- 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.

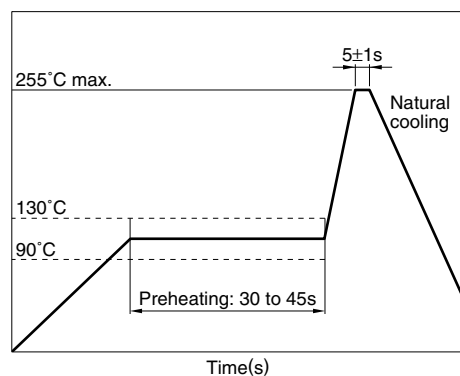
• All specifications are subject to change without notice.

PACKAGING STYLES

Tray : 50pieces/tray

RECOMMENDED SOLDERING CONDITION

FLOW SOLDERING



Preheating: 90 to 130°C for 30 to 45 seconds.

Soldering: 255°C max. 5±1 seconds

- Perform flow soldering from the underside of the board.
- The surface of plastic protrusions inserted into the board may melt, but this causes no problems with regard to electrical properties or mounting.
- 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.

TLA-6T719 ISO8802.3(IEEE802.3) 10/100BASE-TX

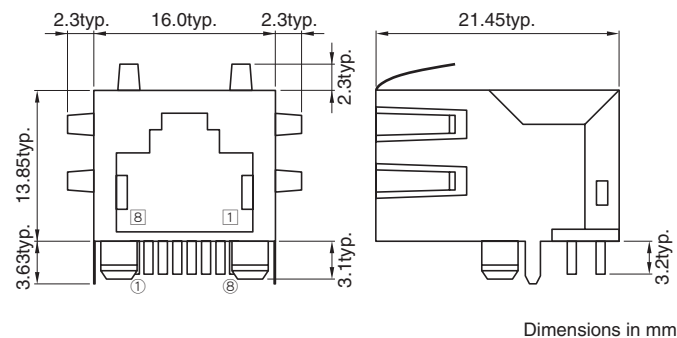
FEATURES

- Product conforming to RoHS directive.
- Pulse transformer, common mode choke, resistor and high with-standing voltage capacitor are integrated into RJ-45 modular jack.
- Excellent common mode noise suppression.
- Inductance is 350 μ H or greater ($f=100$ kHz, DC bias=8mA).
- Using the high-quality and wide-band ferrite cores for LAN.

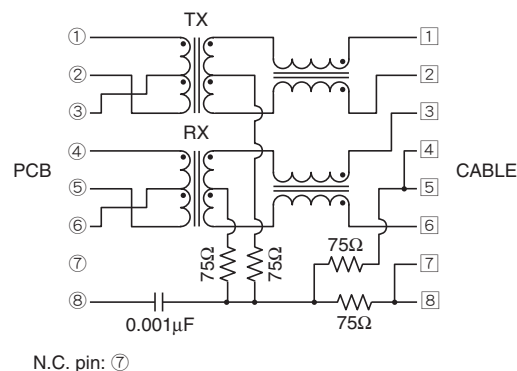
GENERAL SPECIFICATIONS

| | | |
|----------------------|-----------|-----------------|
| Pulse transformer | | 2 |
| Common-mode choke | | 2 |
| Port | | 1 |
| Temperature ranges | Operating | 0 to +70°C |
| | Storage | −40 to +85°C |
| Withstanding voltage | | Erms:1500V[60s] |

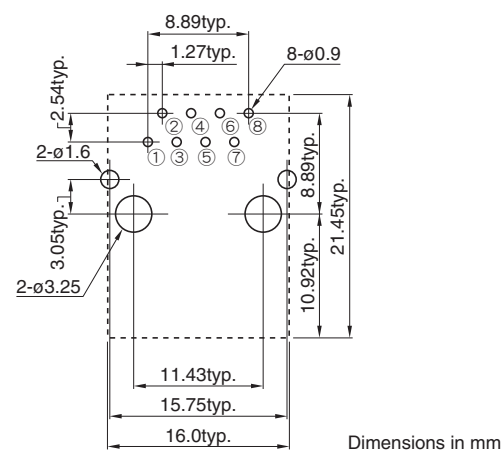
SHAPES AND DIMENSIONS



CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN[TOP VIEW]



ELECTRICAL CHARACTERISTICS

| Part No. | Turns ratio ①③②:①② ④⑥⑤:③⑥ | Inductance (μ H)min. [DC bias 8mA, 100kHz] ①-② ③-⑥ | Insertion loss (dB)max. [0.1 to 100MHz] ①②-①② ③⑥-④⑤ |
|-----------|---------------------------------|---|---|
| TLA-6T719 | 1CT:1 | 350 | 1 |
| | 1CT:1 | 350 | 1 |

• 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.

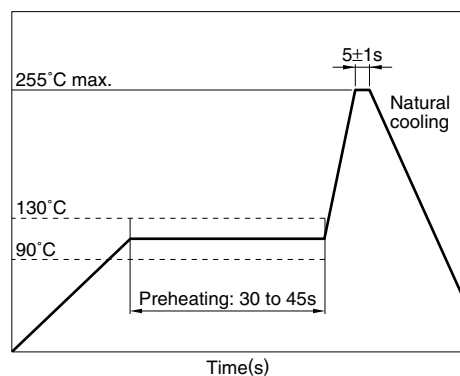
• All specifications are subject to change without notice.

PACKAGING STYLES

Tray : 45pieces/tray

RECOMMENDED SOLDERING CONDITION

FLOW SOLDERING



Preheating: 90 to 130°C for 30 to 45 seconds.

Soldering: 255°C max. 5±1 seconds

- Perform flow soldering from the underside of the board.
- The surface of plastic protrusions inserted into the board may melt, but this causes no problems with regard to electrical properties or mounting.
- 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.

TLA-6T720 ISO8802.3(IEEE802.3) 10/100BASE-TX

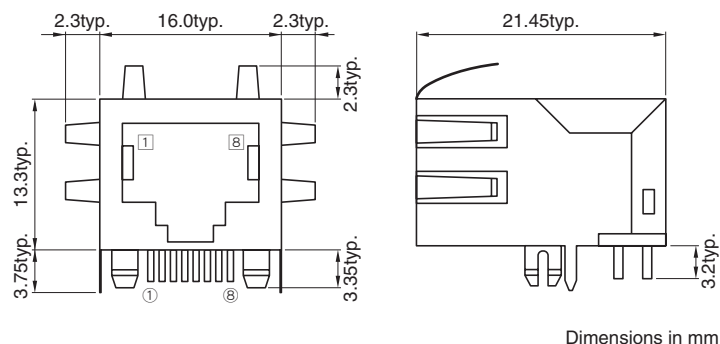
FEATURES

- Product conforming to RoHS directive.
- Pulse transformer, common mode choke, resistor and high with-standing voltage capacitor are integrated into RJ-45 modular jack.
- Excellent common mode noise suppression.
- Inductance is 350 μ H or greater ($f=100$ kHz, DC bias=8mA).
- Using the high-quality and wide-band ferrite cores for LAN.

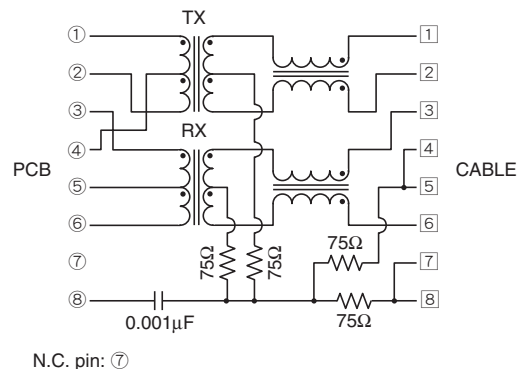
GENERAL SPECIFICATIONS

| | | |
|----------------------|-----------|-----------------|
| Pulse transformer | | 2 |
| Common-mode choke | | 2 |
| Port | | 1 |
| Temperature ranges | Operating | 0 to +70°C |
| | Storage | −40 to +85°C |
| Withstanding voltage | | Erms:1500V[60s] |

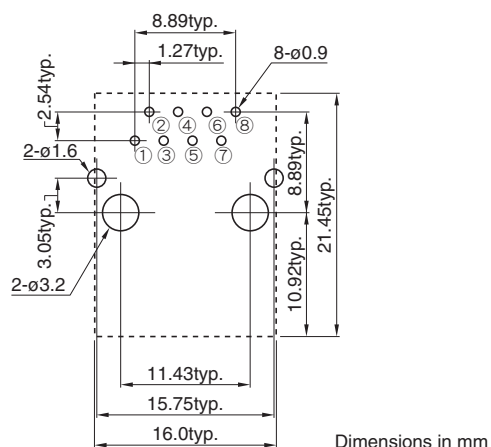
SHAPES AND DIMENSIONS



CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN[TOP VIEW]



ELECTRICAL CHARACTERISTICS

| Part No. | Turns ratio ①④②:①② ④⑤⑥:③⑥ | Inductance (μ H)min. [DC bias 8mA, 100kHz] ①-② ③-⑥ | Insertion loss (dB)max. [0.1 to 100MHz] ①②-①② ③⑥-③⑥ |
|-----------|---------------------------------|---|---|
| TLA-6T720 | 1CT:1 | 350 | 1 |
| | 1CT:1 | 350 | 1 |

• 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.

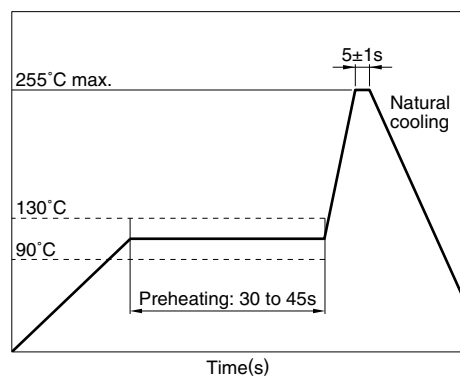
• All specifications are subject to change without notice.

PACKAGING STYLES

Tray : 45pieces/tray

RECOMMENDED SOLDERING CONDITION

FLOW SOLDERING



Preheating: 90 to 130°C for 30 to 45 seconds.

Soldering: 255°C max. 5±1 seconds

- Perform flow soldering from the underside of the board.
- The surface of plastic protrusions inserted into the board may melt, but this causes no problems with regard to electrical properties or mounting.
- 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

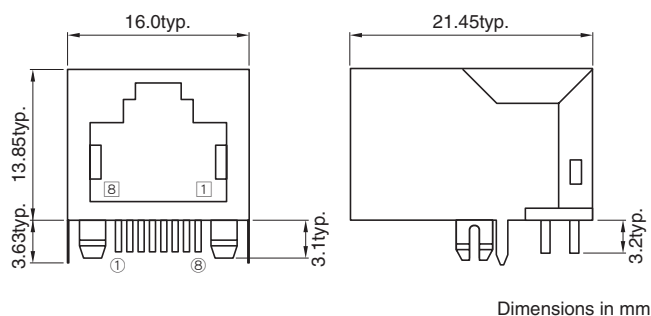
Humidity: 60(%)RH max.

TLA-6T717W ISO8802.3(IEEE802.3) 10/100BASE-TX

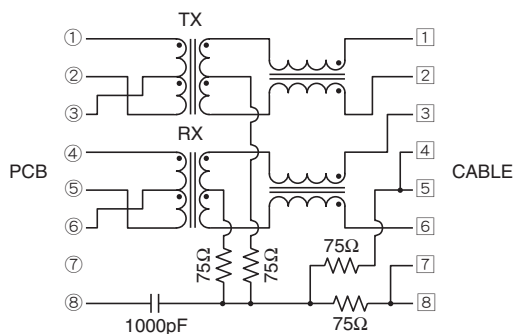
FEATURES

- Can be used in the wide range of temperature(−40 to +85°C).
- Product conforming to RoHS directive.
- Pulse transformer, common mode choke, resistor and high with-standing voltage capacitor are integrated into RJ-45 modular jack.
- 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.

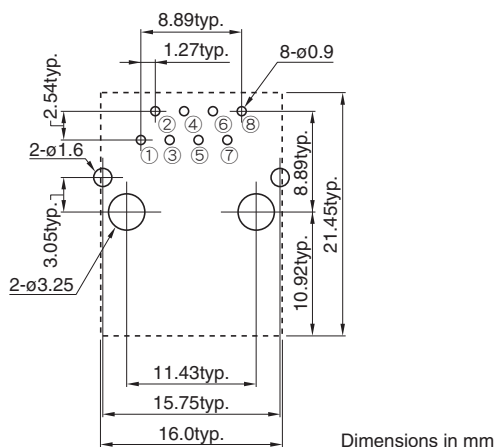
SHAPES AND DIMENSIONS



CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN[TOP VIEW]



ELECTRICAL CHARACTERISTICS

| Part No. | Turns ratio ①③②:①② ④⑥⑤:③⑥ | Inductance (μH)min. [DC bias 8mA, 100kHz] ①-② ③-⑥ | Insertion loss (dB)max. [0.1 to 100MHz] ①②-①② ③⑥-④⑤ |
|------------|---------------------------------|---|---|
| TLA-6T717W | 1CT:1 1CT:1 | 350 350 | 1 1 |

• 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.

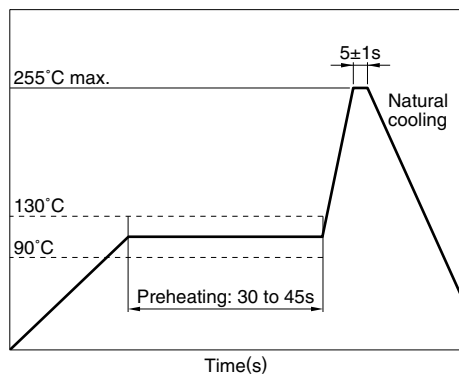
• All specifications are subject to change without notice.

PACKAGING STYLES

Tray : 50pieces/tray

RECOMMENDED SOLDERING CONDITION

FLOW SOLDERING



Preheating: 90 to 130°C for 30 to 45 seconds.

Soldering: 255°C max. 5±1 seconds

- Perform flow soldering from the underside of the board.
- The surface of plastic protrusions inserted into the board may melt, but this causes no problems with regard to electrical properties or mounting.
- 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.

LC MODULES

Conformity to RoHS Directive

TLA-3M103LF(-T) ISO8802.3(IEEE802.3) 10BASE-T

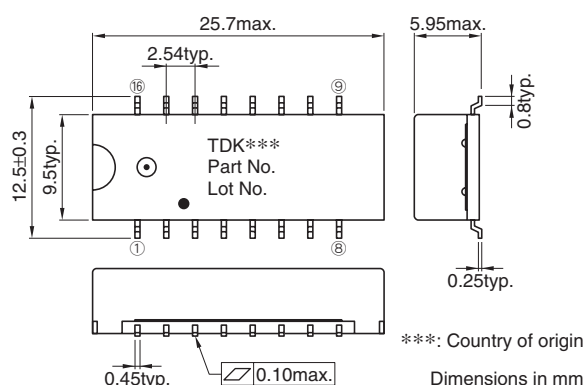
FEATURES

- Product conforming to RoHS directive.
- Can be mounted with lead-free solder (260°C max.).
- 16-pin SMD package (2.54mm=100mil pin pitch).
- Pulse transformer, common-mode choke and low pass filter are integrated into 16-pin SMD package.
- Using the high-quality and wide-band ferrite cores for LAN.
- Packaging specification is taping and bulk(TLA-3M103LF-T: Tape and reel, TLA-3M103LF: Bulk).

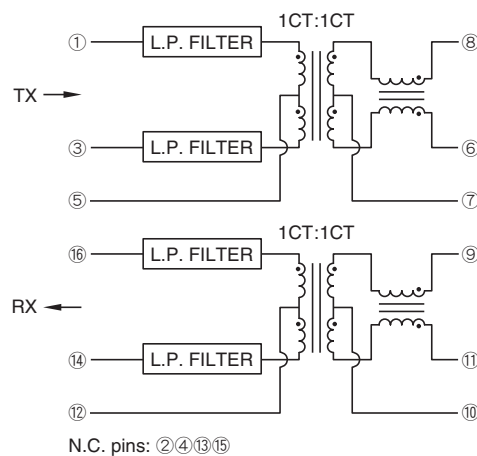
GENERAL SPECIFICATIONS

| | | |
|----------------------|-----------|-----------------|
| Low pass filter | | 2 |
| Pulse transformer | | 2 |
| Common-mode choke | | 2 |
| Port | | 1 |
| Temperature ranges | Operating | 0 to +70°C |
| | Storage | −40 to +85°C |
| Withstanding voltage | | Erms:1500V[60s] |

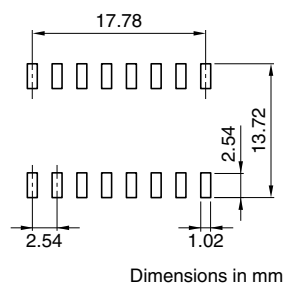
SHAPES AND DIMENSIONS



CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

| Part No. | Insertion loss (dB)max.[5 to 10MHz] ①③-⑧⑥ ⑨⑪-⑯⑭ | Attenuation (dB)min.[30 to 100MHz] ①③-⑧⑥ ⑨⑪-⑯⑭ | Impedance (Ω)typ.[5 to 10MHz] ①-③, ⑧-⑥ ⑯⑭-⑯, ⑨-⑪ | C.M.R.R. (dB)min.[1 to 100MHz] ①③-⑧⑥ ⑯⑭-⑯⑪ |
|-----------------|--|---|---|---|
| TLA-3M103LF(-T) | 1 | 25 | 100, 100 | 25 |
| | 1 | 25 | 100, 100 | 25 |

- Ta=25°C

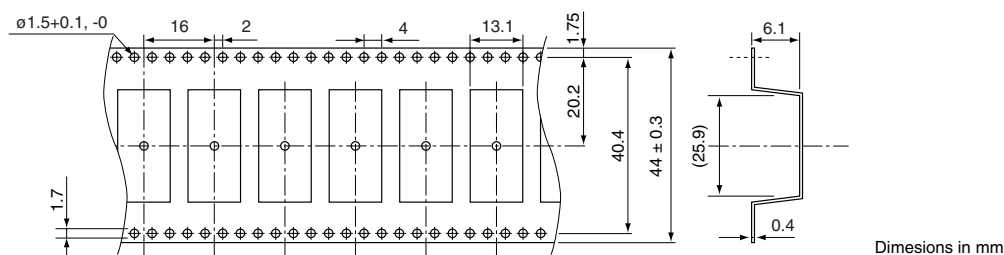
• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

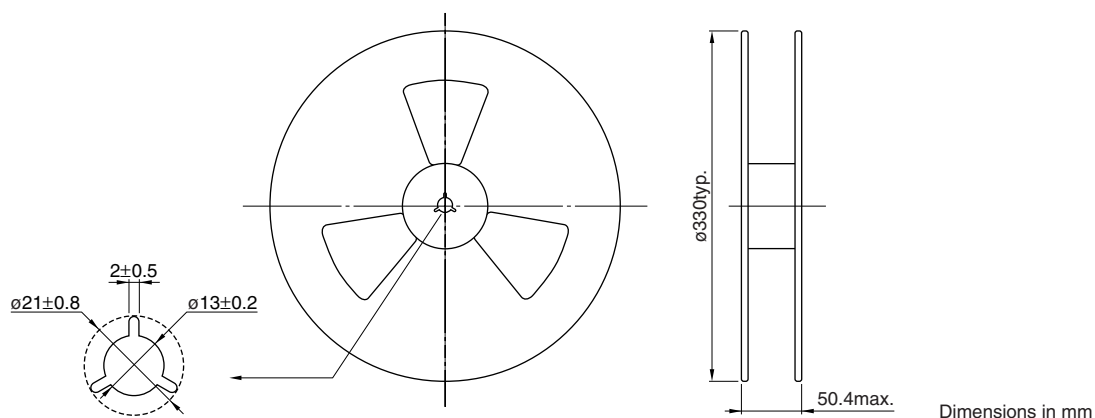
PACKAGING STYLES

Quantity : 600pieces/reel

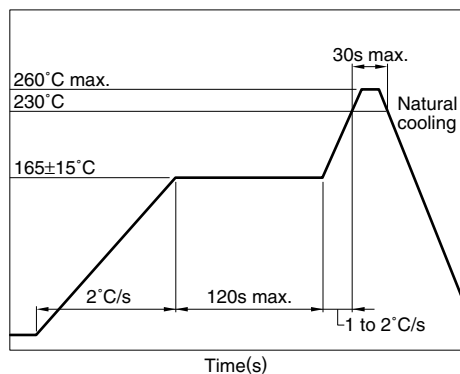
TAPE DIMENSIONS



REEL DIMENSIONS



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 $+30^\circ\text{C}$

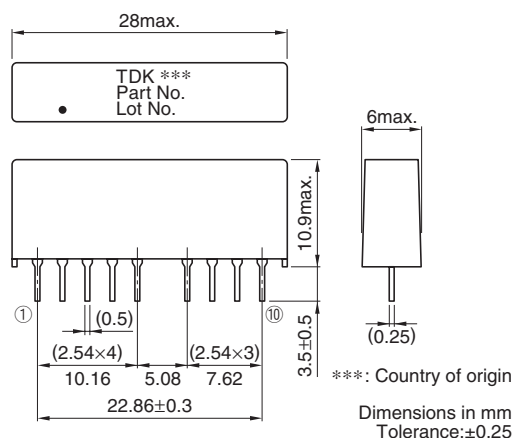
Humidity: 60(%)RH max.

TLA-3M601-RS ISO8802.3(IEEE802.3) 10BASE-T

FEATURES

- Product conforming to RoHS directive.
- 10-pin SIP package (2.54mm=100mil pin pitch).
- Pulse transformer, common-mode choke and low pass filter are integrated into 10-pin SIP package.
- Using the high-quality and wide-band ferrite cores for LAN.
- Thin($t=6\text{mm max.}$) and low profile($H=10.9\text{mm max.}$).

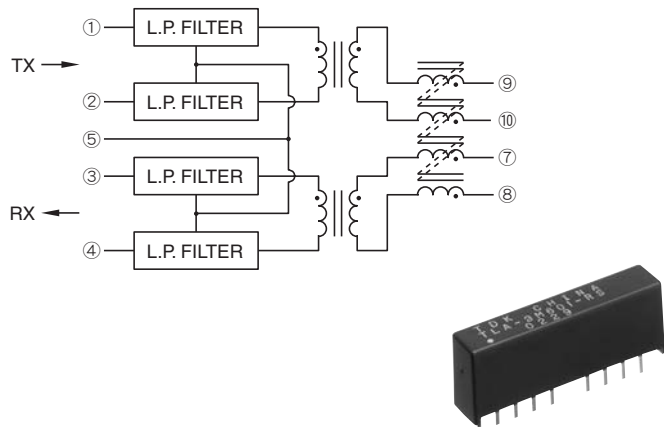
SHAPES AND DIMENSIONS



GENERAL SPECIFICATIONS

| | | |
|----------------------|------------------|--------------|
| Low pass filter | 2 | |
| Pulse transformer | 2 | |
| Common-mode choke | 1 | |
| Port | 1 | |
| Temperature ranges | Operating | 0 to +70°C |
| | Storage | -40 to +85°C |
| Withstanding voltage | Erms: 1500V[60s] | |

CIRCUIT DIAGRAM



ELECTRICAL CHARACTERISTICS

| Part No. | Insertion loss (dB)max.[5 to 10MHz] | Attenuation (dB)min.[30 to 100MHz] | Impedance (Ω)typ.[5 to 10MHz] | C.M.R.R. (dB)min.[30 to 100MHz] |
|--------------|--|---------------------------------------|---|------------------------------------|
| | ①②-⑨⑩ ⑦⑧-③④ | ①②-⑨⑩ ⑦⑧-③④ | ①-②, ⑨-⑩ ③-④, ⑦-⑧ | ①②-⑨⑩ ③④-⑦⑧ |
| TLA-3M601-RS | 1 | 25 | 100, 100 | 30 |
| | 1 | 25 | 100, 100 | 30 |

- $T_a=25^\circ\text{C}$

PACKAGING STYLES

Quantity : 540pieces/box

- 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.

TLA-6M102LF(-T) ATM25

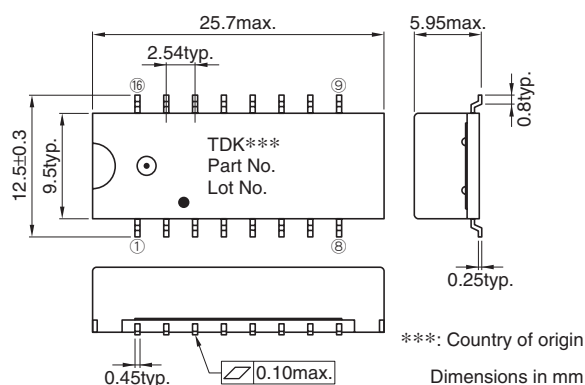
FEATURES

- Product conforming to RoHS directive.
- Can be mounted with lead-free solder (260°C max.).
- 16-pin SMD package (2.54mm=100mil pin pitch).
- Pulse transformers, common-mode chokes, low pass filter and surge protector are integrated into 16-pin SMD package.
- Supports UTP 100Ω transmission cable.
- Using the high-quality and wide-band ferrite cores for LAN.
- Packaging specification is taping and bulk(TLA-6M102LF-T: Tape and reel, TLA-6M102LF: Bulk).

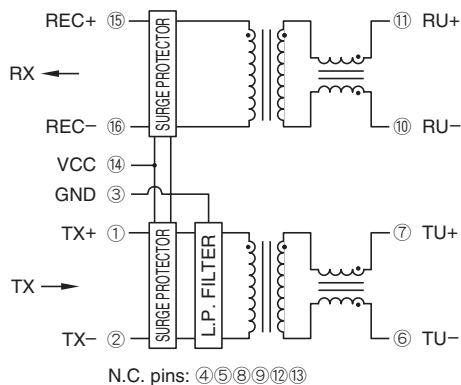
GENERAL SPECIFICATIONS

| | | |
|----------------------|----------------|--------------|
| Low pass filter | 1 | |
| Pulse transformer | 2 | |
| Common-mode choke | 2 | |
| Port | 1 | |
| Temperature ranges | Operating | 0 to +70°C |
| | Storage | -40 to +85°C |
| Withstanding voltage | Erms:500V[60s] | |

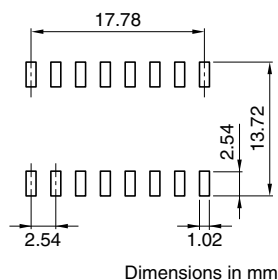
SHAPES AND DIMENSIONS



CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

| Part No. | Insertion loss (dB)max. | | Attenuation (dB)min. |
|-----------------|----------------------------|----------------|-------------------------|
| | [0.1 to 17MHz] | [17 to 25MHz] | [50 to 100MHz] |
| | ①②-⑦⑥ ⑪⑩-⑮⑯ | ①②-⑦⑥ ⑪⑩-⑮⑯ | ①②-⑦⑥ ⑪⑩-⑮⑯ |
| TLA-6M102LF(-T) | 1.5 | 3 | 18 |
| | 1.5 | 1.5 | — |

- Ta=25°C

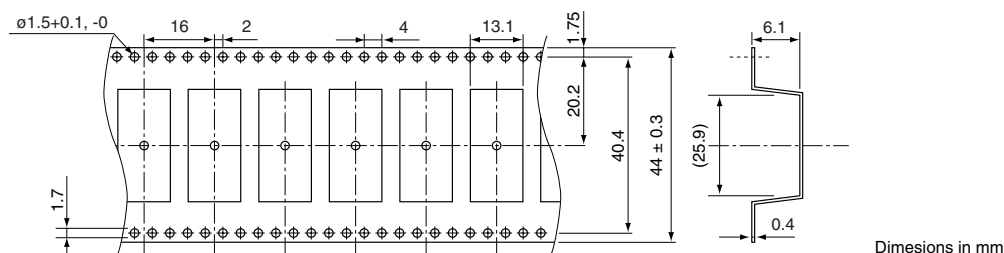
• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

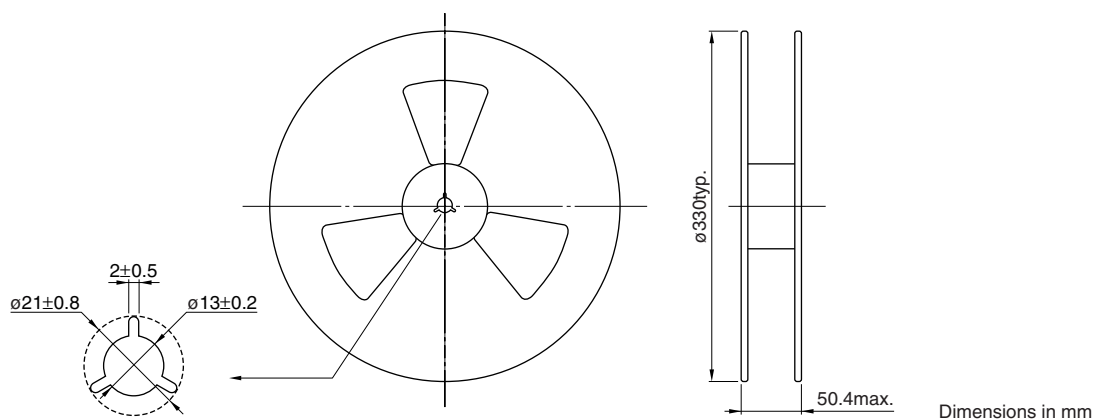
PACKAGING STYLES

Quantity : 600pieces/reel

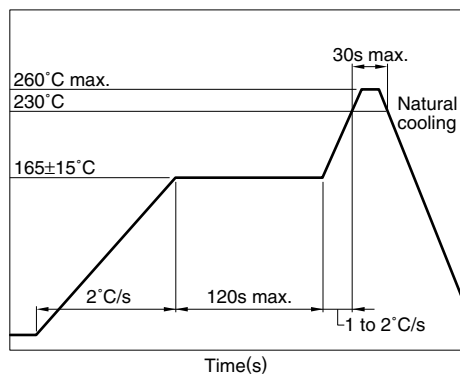
TAPE DIMENSIONS



REEL DIMENSIONS



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 $+30^\circ\text{C}$

Humidity: 60(%)RH max.

TLA-6M103LF(-T) ATM25

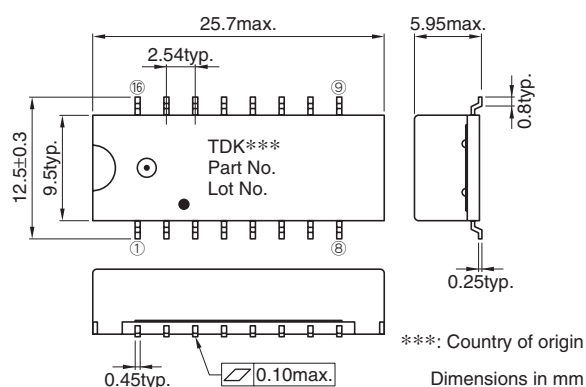
FEATURES

- Product conforming to RoHS directive.
- Can be mounted with lead-free solder (260°C max.).
- 16-pin SMD package (2.54mm=100mil pin pitch).
- Pulse transformers, common-mode chokes and low pass filter are integrated into 16-pin SMD package.
- Supports STP 150Ω or UTP 100Ω transmission cable.
- Using the high-quality and wide-band ferrite cores for LAN.
- Packaging specification is taping and bulk(TLA-6M103LF-T: Tape and reel, TLA-6M103LF: Bulk).

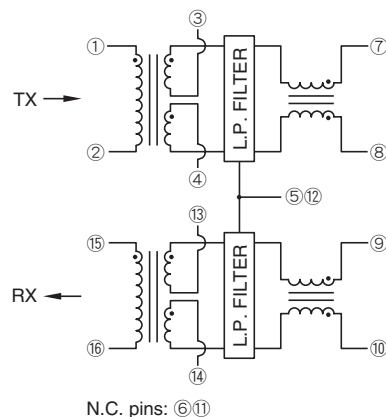
GENERAL SPECIFICATIONS

| | | |
|----------------------|----------------|--------------|
| Low pass filter | 2 | |
| Pulse transformer | 2 | |
| Common-mode choke | 2 | |
| Port | 1 | |
| Temperature ranges | Operating | 0 to +70°C |
| | Storage | -40 to +85°C |
| Withstanding voltage | Erms:500V[60s] | |

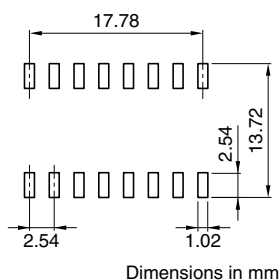
SHAPES AND DIMENSIONS



CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

| Part No. | Insertion loss (dB)max. | | | Attenuation (dB)min. |
|-----------------|----------------------------|---------------------------|---------------------------|-------------------------|
| | [12kHz] ①②-⑦⑧ ⑨⑩-⑮⑯ | [16MHz] ①②-⑦⑧ ⑨⑩-⑮⑯ | [24MHz] ①②-⑦⑧ ⑨⑩-⑮⑯ | |
| TLA-6M103LF(-T) | 3 | 1 | 1.8 | 10 |
| | 3 | 1 | 1.8 | 10 |

- Ta=25°C

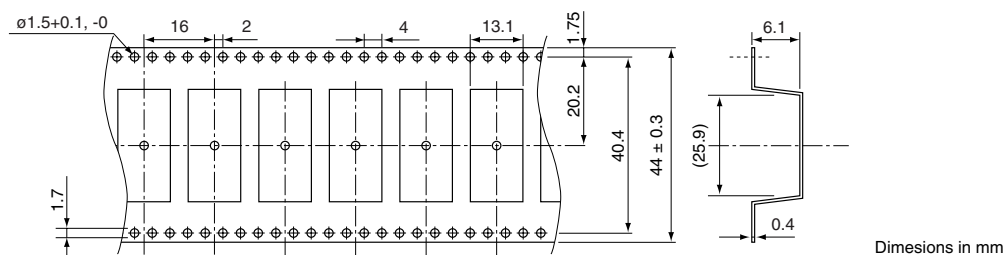
• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

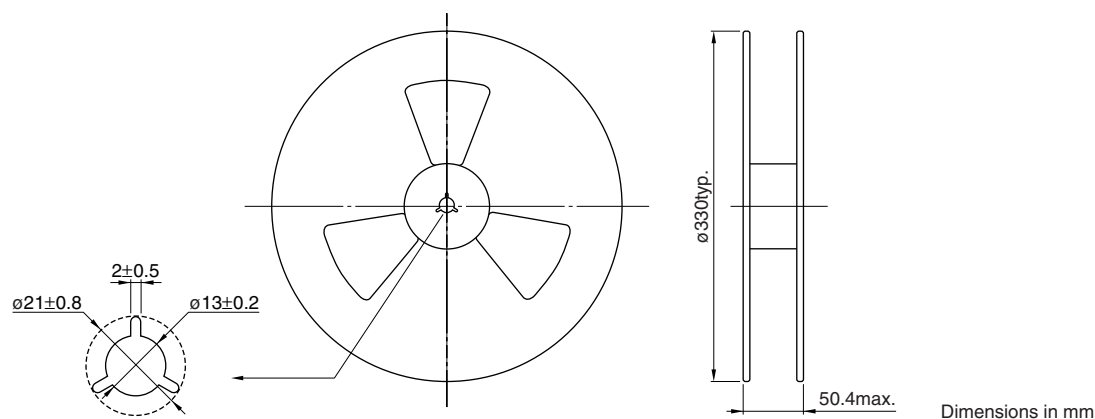
PACKAGING STYLES

Quantity : 600pieces/reel

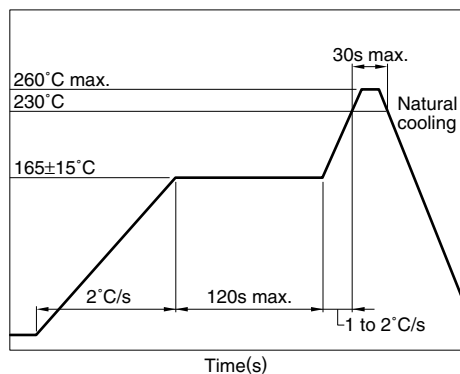
TAPE DIMENSIONS



REEL DIMENSIONS



RECOMMENDED SOLDERING CONDITION REFLOW SOLDERING



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 $+30^\circ\text{C}$

Humidity: 60(%)RH max.

- 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).

IC Cross Reference

| IC manufacturer | Interface | IC part No. | Ports | Turns ratio | | TDK part No. | | | |
|-------------------|----------------------|------------------|-------|-------------|-----|---|----------------------|-----------|------------|
| | | | | TX | RX | Single | Single (Low profile) | Quad | RJ45 |
| AMD | 10/100BASE-TX | Am79C874 | 1 | 1:1 | 1:1 | TLA-6T103LF | TLA-6T214ALF | TLA-6T404 | TLA-6T718 |
| | | Am79C875 | 4 | | | TLA-6T118LF | TLA-6T213LF | TLA-6T406 | TLA-6T719 |
| | | | | 1.25:1 | 1:1 | TLA-6T122LF (For power down application) | | | TLA-6T720 |
| Broadcom | 10/100BASE-TX | Am79C973/975 | 1 | 1:1.41 | 1:1 | TLA-6T121LF | | | |
| | | AC101L | 1 | | | | | | |
| | | BCM5241 | 1 | | | | | | |
| | | BCM5226 | 6 | 1:1 | 1:1 | TLA-6T118LF | TLA-6T214ALF | TLA-6T406 | TLA-6T718 |
| | | BCM5208R/5228 | 8 | | | | TLA-6T213LF | | TLA-6T719 |
| | 10/100BASE-TX (VoIP) | BCM5238/5248 | 8 | | | | | | TLA-6T720 |
| | | BCM5220/5221 | 1 | 1:1 | 1:1 | TLA-6T133WLF | | | |
| | | BCM5222 | 2 | | | | | | TLA-6T717W |
| | | BCM1101 | 2 | 1:1 | 1:1 | TLA-6T127LF | | | |
| | | BCM1112/1113 | 2 | | | | | | |
| CIRRUS LOGIC | 10BASE-T | BCM1115 | 1 | | | | | | |
| | | BCM5401 | 1 | | | | | | |
| | 10/100/1000BASE-T | BCM5421/S | 1 | | | | | | |
| | | BCM5461/S | 1 | | | | | | |
| | | BCM5703 | 1 | 1:1 | 1:1 | TLA-7T101LF | TLA-7T201LF | | |
| | | BCM5705/M | 1 | | | | | | |
| | | BCM5788/M | 1 | | | | | | |
| | 10BASE-T | CS8900A(5V) | 1 | 1:1.41 | 1:1 | TLA-3T110LF | | | |
| | | CS8900A(3.3V) | 1 | 1:2.5 | 1:1 | TLA-3T112LF | | | |
| | 10/100BASE-TX | CS8952 | 1 | 1:1 | 1:1 | TLA-6T103LF | TLA-6T214ALF | | TLA-6T718 |
| | | CS8952T | 1 | | | TLA-6T118LF | TLA-6T213LF | | TLA-6T719 |
| DAVICOM | 10BASE-T | DM9008 | 1 | 1:1 | 1:1 | TLA-3M103LF | | | TLA-6T720 |
| | | DM9081 | 8 | | | TLA-3M601-RS | | | |
| | 10/100BASE-TX | DM9010 | 1 | 1:1 | 1:1 | TLA-6T118LF | TLA-6T214ALF | | TLA-6T718 |
| | | DM9000A | 1 | | | | TLA-6T213LF | | TLA-6T719 |
| | | DM9601 | 1 | | | | | | TLA-6T720 |
| | | DM9102A | 1 | 1:1 | 1:1 | TLA-6T103LF | TLA-6T214ALF | | TLA-6T718 |
| | | DM9161 | 1 | | | TLA-6T118LF | TLA-6T213LF | | TLA-6T719 |
| | | DM9331 | 1 | 1.25:1 | 1:1 | TLA-6T122LF (For power down application) | | | TLA-6T720 |
| | 10BASE-T | DM9331 | 1 | | | | | | |
| | | DM9331 | 1 | | | | | | |
| Fujitsu | 10BASE-T | MB86967 | 1 | 1:1 | 1:1 | TLA-3M103LF | | | TLA-6T718 |
| | | MB86967 | 1 | | | TLA-3M601-RS | | | TLA-6T719 |
| | 10/100BASE-TX | ICS1892 | 1 | 1:1 | 1:1 | TLA-6T103LF | TLA-6T214ALF | | TLA-6T720 |
| ICS | 10/100BASE-TX | ICS1893AF/AG | 1 | | | TLA-6T118LF | TLA-6T213LF | | TLA-6T718 |
| | | ICS1893BF/BK | 1 | 1:1 | 1:1 | TLA-6T118LF | TLA-6T214ALF | | TLA-6T719 |
| | 10/100BASE-TX | ICS1893BF/BK | 1 | | | | TLA-6T213LF | | TLA-6T720 |
| IDT | ATM25 | IDT77105 | 1 | 1:1 | 1:1 | TLA-6M103LF | | | |
| Infineon (ADMtek) | 10/100BASE-TX | ADM7001 | 1 | | | | | | |
| | | ADM7008 | 8 | | | | | | |
| | | ADM6995L/6996L | 5 | 1:1 | 1:1 | TLA-6T118LF | TLA-6T214ALF | TLA-6T406 | TLA-6T718 |
| | | ADM6996F | 4 | | | | TLA-6T213LF | | TLA-6T719 |
| | | ADM6999U/G | 8 | | | | | | TLA-6T720 |
| | 10BASE-T | LXT901A/907A | 1 | 1:1.14 | 1:1 | TLA-3T110LF | | | |
| | | LXT905/908 | 1 | 1:2 | 1:1 | TLA-3T109LF | | | |
| | 10/100BASE-TX | 82559/ER | 1 | | | | | | |
| | | 82562EP/ET/EX/EZ | 1 | 1:1 | 1:1 | TLA-6T103LF | TLA-6T214ALF | | TLA-6T718 |
| | | LXT972A/M | 1 | | | TLA-6T118LF | TLA-6T213LF | | TLA-6T719 |
| | | LXT970A/971A | 1 | | | | | | TLA-6T720 |
| | | 82551QM/ER | 1 | | | | | | |
| | | 82562GT/GZ/GX | 1 | 1:1 | 1:1 | TLA-6T118LF | TLA-6T214ALF | | TLA-6T718 |
| Intel (Level One) | 10/100BASE-TX | LXT973 | 2 | | | | TLA-6T213LF | | TLA-6T719 |
| | | 82551IT | 1 | 1:1 | 1:1 | TLA-6T133WLF | | | TLA-6T720 |
| | | LXT974/975 | 4 | 2:1 | 1:1 | TLA-6T120LF | | | TLA-6T717W |
| | | LXT9785/E | 8 | 1:1 | 1:1 | TLA-6T118LF | TLA-6T214ALF | TLA-6T406 | TLA-6T718 |
| | | LXT9785/E | 8 | | | | TLA-6T213LF | | TLA-6T719 |
| | | LXT9785/E | 8 | | | | | | TLA-6T720 |
| | 10/100/1000BASE-T | 82573E/V/L | 1 | | | | | | |
| | | 82572EI | 1 | | | | | | |
| | | 82571EB | 2 | | | | | | |
| | | 82547GI/EI | 1 | | | | | | |
| | | 82546EB/GB | 2 | 1:1 | 1:1 | TLA-7T101LF | TLA-7T201LF | | |
| | | 82545EM/GM | 1 | | | | | | |
| | | 82544GC/EI | 1 | | | | | | |
| | | 82541PI/GI/EI/ER | 1 | | | | | | |
| | | 82540EM/EP | 1 | | | | | | |

• All specifications are subject to change without notice.

| IC manufacturer | Interface | IC part No. | Ports | Turns ratio | | TDK part No. | | | | | | | | | | | | | | | | |
|---------------------------|-------------------|--|---|-------------|--------|-----------------------------|-----------------------------|-----------------------------|-------------------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|------------|-------------------------------------|------------|-----|-------------|-----------------------------|-------------------------------------|
| | | | | TX | RX | Single | Single (Low profile) | Quad | RJ45 | | | | | | | | | | | | | |
| LSI Logic | 10/100BASE-TX | L80223 | 1 | 1:1 | 1:1 | TLA-6T103LF TLA-6T118LF | TLA-6T214ALF TLA-6T213LF | | TLA-6T718 TLA-6T719 TLA-6T720 | | | | | | | | | | | | | |
| | | L80225 | 1 | | | | | | | | | | | | | | | | | | | |
| | | L80227 | 1 | | | | | | | | | | | | | | | | | | | |
| Marvell | 10/100/1000BASE-T | 88E1000/S | 1 | 1:1 | 1:1 | TLA-7T101LF | TLA-7T201LF | | | | | | | | | | | | | | | |
| | | 88E1010/S | 1 | | | | | | | | | | | | | | | | | | | |
| | | 88E1011/S | 1 | | | | | | | | | | | | | | | | | | | |
| | | 88E1111 | 1 | | | | | | | | | | | | | | | | | | | |
| MICREL (Kendin) | 10/100BASE-TX | KSZ8001L/S | 1 | 1:1 | 1:1 | TLA-6T118LF | TLA-6T214ALF TLA-6T213LF | | TLA-6T718 TLA-6T719 TLA-6T720 | | | | | | | | | | | | | |
| | | KSZ8721B/BL/BT | 1 | | | | | | | | | | | | | | | | | | | |
| | | KSZ8721CL/SL | 1 | | | | | | | | | | | | | | | | | | | |
| | | KSZ8001LI | 1 | 1:1 | 1:1 | TLA-6T133WLF | | TLA-6T717W | | | | | | | | | | | | | | |
| | | KSZ8721B/BLI/SLI | 1 | | | | | | | | | | | | | | | | | | | |
| | | KS8993I | 1 | | | | | | | | | | | | | | | | | | | |
| | | KSZ8993 | 1 | 1:1 | 1:1 | TLA-6T103LF TLA-6T118LF | TLA-6T214ALF TLA-6T213LF | TLA-6T406 | TLA-6T718 TLA-6T719 TLA-6T720 | | | | | | | | | | | | | |
| KSZ8995XA | 5 | | | | | | | | | | | | | | | | | | | | | |
| KSZ8997 KSZ8999 | 8 9 | | | | | | | | | | | | | | | | | | | | | |
| Micro Linear | 10/100BASE-TX | ML6652 | 1 | 1:1 | 1:1 | TLA-6T118LF | TLA-6T214ALF TLA-6T213LF | TLA-6T406 | TLA-6T718 TLA-6T719 TLA-6T720 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| National Semiconductor | 10/100BASE-TX | DP83847 DP83816 | 1 1 | 1:1 | 1:1 | TLA-6T103LF TLA-6T118LF | TLA-6T214ALF TLA-6T213LF | | TLA-6T718 TLA-6T719 TLA-6T720 | | | | | | | | | | | | | |
| | | DP83848C DP83848M | 1 1 | | | | | | | 1:1 | 1:1 | TLA-6T118LF | TLA-6T214ALF TLA-6T213LF | TLA-6T718 TLA-6T719 TLA-6T720 | | | | | | | | |
| | | DP83848H/I/T/YB | 1 | | | | | | | | | | | | TLA-6T133WLF | TLA-6T717W | | | | | | |
| | 10/100/1000BASE-T | DP83865 | 1 | 1:1 | 1:1 | TLA-7T101LF | TLA-7T201LF | | | | | | | | | | | | | | | |
| | NEC | ATM25 | uPD98408 | 6 | 1:1.52 | 1.36:1 | TLA-6M102LF | | | | | | | | | | | | | | | |
| Realtek | 10BASE-T | RTL8019AS RTL8029AS | 1 1 | 1:1 | 1:1 | TLA-3M103LF TLA-3M601-RS | | | | | | | | | | | | | | | | |
| | | RTL8100B/C RTL8139C/D RTL8101L RTL8201BL/CL | 1 1 1 1 | | | | | | | 1:1 | 1:1 | TLA-6T103LF TLA-6T118LF | TLA-6T214ALF TLA-6T213LF | TLA-6T718 TLA-6T719 TLA-6T720 | | | | | | | | |
| | 10/100BASE-TX | RTL8201CP RTL8100E/8101E | 1 1 | 1:1 | 1:1 | TLA-6T118LF | TLA-6T214ALF TLA-6T213LF | TLA-6T406 | TLA-6T718 TLA-6T719 TLA-6T720 | | | | | | | | | | | | | |
| | | RTL8208/B | 8 | | | | | | | TLA-6T118LF | TLA-6T214ALF TLA-6T213LF | TLA-6T718 TLA-6T719 TLA-6T720 | | | | | | | | | | |
| | 10/100/1000BASE-T | RTL8110S/SB/SC RTL8169S/SB/SC RTL8211B | 1 1 1 | 1:1 | 1:1 | TLA-7T101LF | TLA-7T201LF | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | Renesas | 10/100BASE-TX | R4S76190B125BGV | 1 | 1:1 | 1:1 | TLA-6T103LF TLA-6T118LF | TLA-6T214ALF TLA-6T213LF | | TLA-6T718 TLA-6T719 TLA-6T720 | | | | | | | | | | | | |
| | | | R4S76190N125BGV R4S76190W125BGV R4S76190D125BGV | 1 1 1 | | | | | | | 1:1 | 1:1 | TLA-6T133WLF | TLA-6T717W | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| SMSC | 10BASE-T | LAN91C96 | 1 | 1:1 | 1:1 | TLA-3M103LF TLA-3M601-RS | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | 10/100BASE-TX | LAN83C185 LAN91C111 LAN9118 LAN9117 LAN9116 LAN9115 | 1 1 1 1 1 1 | 1:1 | 1:1 | TLA-6T103LF TLA-6T118LF | TLA-6T214ALF TLA-6T213LF | | TLA-6T718 TLA-6T719 TLA-6T720 | | | | | | | | | | | | | |
| | | LAN8700 LAN8187 LAN9215 | 1 1 1 | | | | | | | 1:1 | 1:1 | TLA-6T118LF | TLA-6T214ALF TLA-6T213LF | TLA-6T718 TLA-6T719 TLA-6T720 | | | | | | | | |
| | | LAN91C111I LAN8700I LAN8171I LAN9218I | 1 1 1 1 | | | | | | | | | | | | 1:1 | 1:1 | TLA-6T133WLF | TLA-6T717W | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | Teridian Semiconductor (TDK) | 10/100BASE-TX | | | | | | | 78Q2120C | 1 | 1:1 | 1:1 | TLA-6T103LF TLA-6T118LF | TLA-6T214ALF TLA-6T213LF | | TLA-6T718 TLA-6T719 TLA-6T720 | | | | | |
| | | | | | | | | | | 78Q2123 | 1 | | | | | | | 1:1 | 1:1 | TLA-6T118LF | TLA-6T214ALF TLA-6T213LF | TLA-6T718 TLA-6T719 TLA-6T720 |
| | | | | | | | | | | 78Q2133 | 1 | | | | | | | | | | | |