

LAN Components

Pulse transformers LC modules

TLA series

Issue date: February 2010

All specifications are subject to change without notice.

[•] 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

Contents

TLA SERIES(Conformity to RoHS Directive)

Page

	·
Pulse Transformers	
TLA-3T101LF(-T) 10BASE-2/5/T	2
TLA-3T106LF(-T) 10BASE-T	4
TLA-3T107LF(-T) 10BASE-T	4
TLA-3T105LF(-T) 10BASE-T	6
TLA-3T109LF(-T) 10BASE-T	6
TLA-3T110LF(-T) 10BASE-T	6
TLA-3T112LF(-T) 10BASE-T	6
TLA-6T103LF(-T) 10/100BASE-TX	8
TLA-6T118LF(-T) 10/100BASE-TX	
TLA-6T119LF(-T) 10/100BASE-TX	
TLA-6T120LF(-T) 10/100BASE-TX	
TLA-6T121LF(-T) 10/100BASE-TX	
TLA-6T122LF(-T) 10/100BASE-TX	
TLA-6T127LF(-T) 10/100BASE-TX, PoE	
TLA-6T133WLF(-T) 10/100BASE-TX	
TLA-6T214ALF(-T) 10/100/1000BASE-T	
TLA-6T213LF(-T) 10/100/1000BASE-TX	
TLA-7T201LF(-T) 10/100/1000BASE-TX	
TLA-6T406(-T) 10/100BASE-TX	
TLA-7T101LF(-T) 10/100/1000BASE-T	24
Pulse Transformer, Connector Type	
TLA-6T718A 10/100BASE-TX	26
TLA-6T719A 10/100BASE-TX	28
TLA-6T720 10/100BASE-TX	30
TLA-6T717W 10/100BASE-TX	32
LC Modules	
TLA-3M103LF(-T) 10BASE-T	34
IC Cross Reference	36

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) ISO8802.3(IEEE802.3) 10BASE2/5/-T

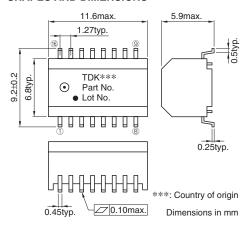
FEATURES

- 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-3T101LF-T: Tape and reel, TLA-3T101LF: Bulk).

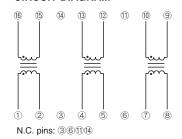
GENERAL SPECIFICATIONS

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

SHAPES AND DIMENSIONS

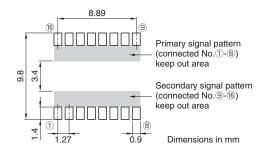


CIRCUIT DIAGRAM





RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

Part No.	Turns ratio ①②:665 ④⑤:3位 ⑦⑧:09	Inductance (μH)typ.[100kHz] ①-② ④-⑤ ⑦-⑧	Leakage inductance (μH)max.[100kHz] ①-②[%-⑤ shorted] ④-⑤[③-⑫ shorted] ⑦-⑧[⑩-⑨ shorted]	Inter-winding stray capacitance (pF)max.[100kHz] ①2-1615 ④5-1312 ⑦8-109	DC resistance (Ω)max. ①-②,⑥-⑤ ④-⑤,③-⑫ ⑦-⑧,⑩-⑨
TLA-3T101LF(-T)	1:1	100	0.25	10	0.35, 0.35

[•] Ta=25°C

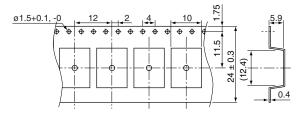
[•] Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

All specifications are subject to change without notice.



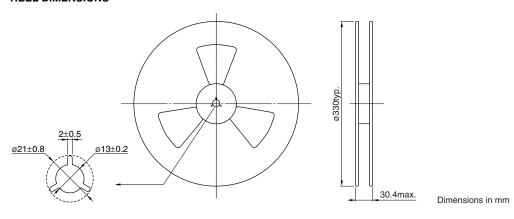
Quantity: 1000pieces/reel

TAPE DIMENSIONS

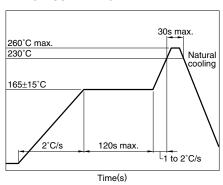


Dimensions in mm

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.

[•] All specifications are subject to change without notice.



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

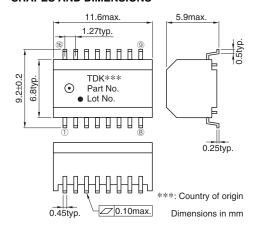
FEATURES

- · 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).

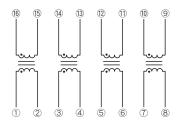
GENERAL SPECIFICATIONS

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

SHAPES AND DIMENSIONS

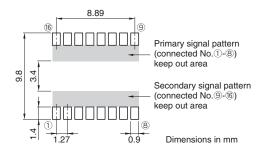


CIRCUIT DIAGRAM





RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

Part No.	Turns ratio ①2:66 34:46 56:20 78:09	Inductance (μH)min.[100kHz] ①-② ③-④ ⑤-⑥ ⑦-⑧	Leakage inductance (μH)max.[100kHz] ①-②[%-% shorted] ③-④[¼-% shorted] ⑤-⑥[②-⑪ shorted] ⑦-⑧[⑩-⑨ shorted]	Inter-winding stray capacitance (pF)max.[100kHz] ①2-666 ③4-463 ⑤6-200	DC resistance (Ω)max. ①-②, 16-15 ③-④, 14-13 ⑤-⑥, 12-11 ⑦-⑧, 10-9
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

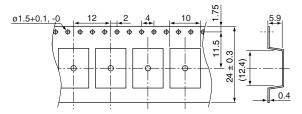
[•] Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

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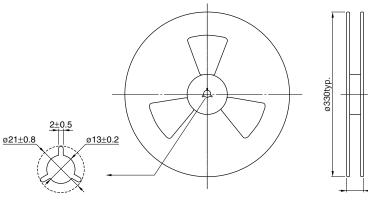
Quantity: 1000pieces/reel

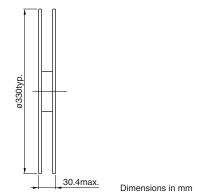
TAPE DIMENSIONS



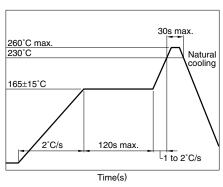
Dimensions in mm

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.

[•] All specifications are subject to change without notice.



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

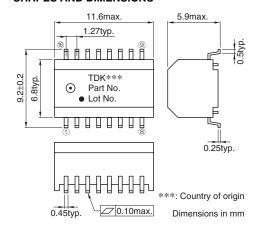
FEATURES

- · 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).

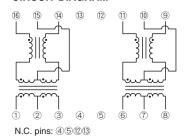
GENERAL SPECIFICATIONS

	2
	2
	1
Operating	0 to +70°C
Storage	-40 to +85°C
	Erms: 2000V[60s]

SHAPES AND DIMENSIONS

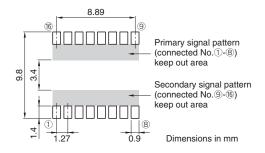


CIRCUIT DIAGRAM





RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

Part No.	Turns ratio 123:654 678:1109	Inductance (μH)min.[100kHz] ①-③ ⑥-⑧	Leakage inductance (μH)max.[100kHz] ①-③[⑯-⑭ shorted] ⑥-⑧[⑪-⑨ shorted]	Inter-winding stray capacitance (pF)max.[100kHz] ①3-⑥4 ⑥8-①9	DC resistance (Ω) max. $(1-3)$ $(6-8)$
TI A OT10ELE/ T)	1CT:1CT	130	0.3	12	0.5
TLA-3T105LF(-T)	1CT:1CT	130	0.3	12	0.5
TI A 0T1001 F/ T)	2CT:1CT	130	0.95	12	0.5
TLA-3T109LF(-T)	1CT:1CT	130	0.35	12	0.5
TI A 0T440LE(T)	1CT:1CT	130	0.35	12	0.5
TLA-3T110LF(-T)	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

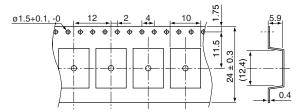
[•] Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

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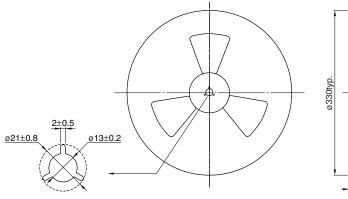
Quantity: 1000pieces/reel

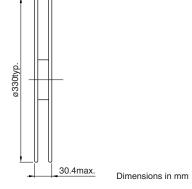
TAPE DIMENSIONS



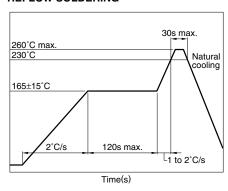
Dimensions in mm

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.

[•] All specifications are subject to change without notice.



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

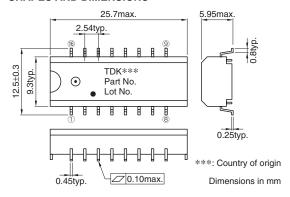
FEATURES

- · 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).

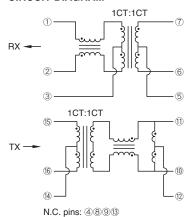
GENERAL SPECIFICATIONS

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

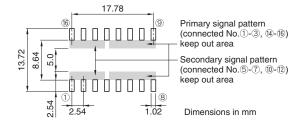
SHAPES AND DIMENSIONS



CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN





ELECTRICAL CHARACTERISTICS

Part No.	Turns ratio	Inductance (μH)min. [DC bias 8mA, 100kHz] ⑪-⑩ ⑦-⑥	Insertion loss (dB)max. [0.1 to 100MHz] (5)6-(1)(0) (7)6-(1)(2)	Inter-winding stray capacitance (pF)max.[100kHz] (\$\overline{10}\overl
TLA-6T103LF(-T)	1CT:1CT	350	1	25
TLA-01103LF(-1)	1CT:1CT	350	1	25

[•] Ta=25°C

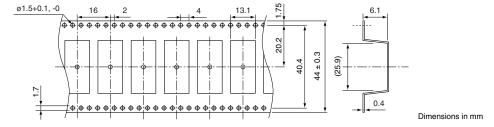
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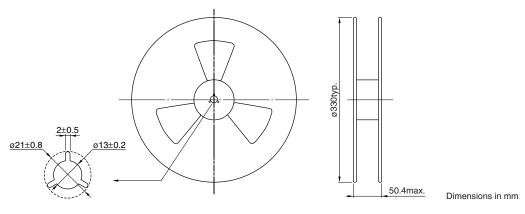


Quantity: 600pieces/reel

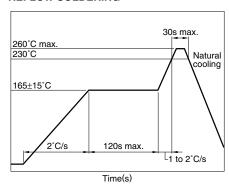
TAPE DIMENSIONS



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 1 year.

Temperature range: +5 to +30°C

Humidity: 60(%)RH max.

[•] All specifications are subject to change without notice.



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

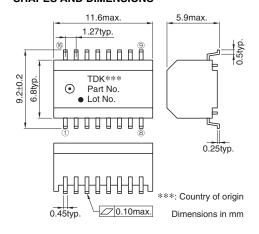
FEATURES

- · 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).

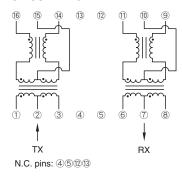
GENERAL SPECIFICATIONS

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

SHAPES AND DIMENSIONS

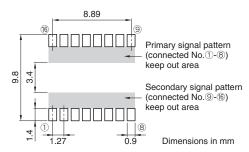


CIRCUIT DIAGRAM





RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

		Inductance	Insertion loss	Inter-winding
	Turns ratio	(μH)min.	(dB)max.	stray capacitance
Part No.	123:161514	[DC bias 8mA, 100kHz]	[0.1 to 100MHz]	(pF)max.[100kHz]
	678:11109	16-14	13-1614	13-1614
		11)-(9)	119-68	68-119
TI A CT1101 F/ T)	1CT:1CT	350	1	25
TLA-6T118LF(-T)	1CT:1CT	350	1	25
TI A CT1101 F(T)	1.41CT:1CT	350	2	25
TLA-6T119LF(-T)	1CT:1CT	350	1	25
TLA-6T120LF(-T)	2CT:1CT	350	3.5	25
1LA-0112ULF(-1)	1CT:1CT	350	1	25
TI A CT1011 F/ T)	1CT:1.41CT	350	2.5	25
TLA-6T121LF(-T)	1CT:1CT	350	1	25
TI A 6T100LE(T)	1.25CT:1CT	350	2	25
TLA-6T122LF(-T)	1CT:1CT	350	1	25

[•] Ta=25°C

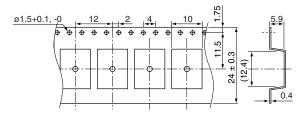
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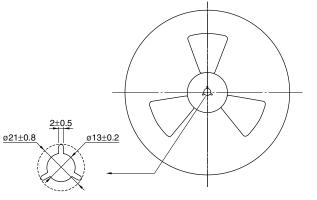
Quantity: 1000pieces/reel

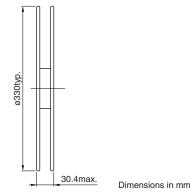
TAPE DIMENSIONS



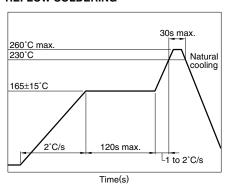
Dimensions in mm

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.

[•] All specifications are subject to change without notice.



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

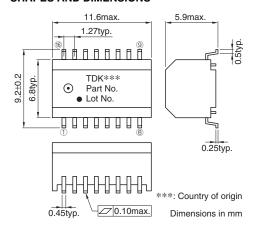
FEATURES

- · 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).

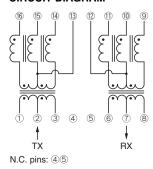
GENERAL SPECIFICATIONS

	2
	2
	1
Operating	0 to +70°C
Storage	−40 to +85°C
	Erms:1500V[60s]

SHAPES AND DIMENSIONS

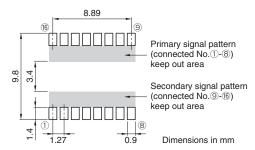


CIRCUIT DIAGRAM





RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

Part No.		Inductance	Insertion loss	Inter-winding
	Turns ratio ①②③:⑥⑤14	(μH)min. [DC bias 8mA, 100kHz]	(dB)max. [0.1 to 100MHz]	stray capacitance (pF)max.[100kHz]
	678:1109	16-14	13-1614	13-1614
		11-9	119-68	68-119
TLA-6T127LF(-T)	1CT:1CT	350	1	25
1LA-01127L1 (-1)	1CT:1CT	350	1	25

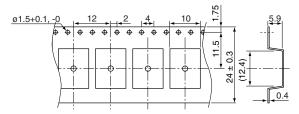
[•] Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

All specifications are subject to change without notice.



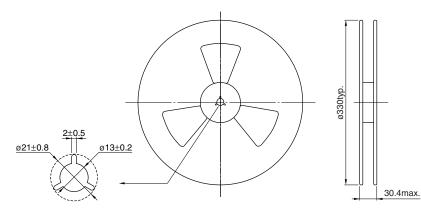
Quantity: 1000pieces/reel

TAPE DIMENSIONS

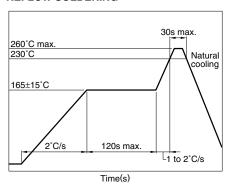


Dimensions in mm

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

Dimensions in mm

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.

[•] All specifications are subject to change without notice.



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

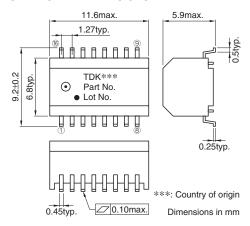
FEATURES

- 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).

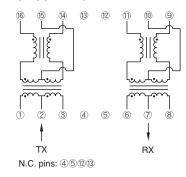
GENERAL SPECIFICATIONS

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

SHAPES AND DIMENSIONS

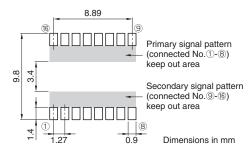


CIRCUIT DIAGRAM





RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

Part No.	Turns ratio ①②③:⑥⑤ゆ ⑥⑦⑧:①⑩⑨	Inductance (μH)min. [DC bias 8mA, 100kHz] (6-14 (1)-(9)	Insertion loss (dB)max. [0.1 to 100MHz] ①3-664 ①9-68	Inter-winding stray capacitance (pF)max.[100kHz] ①3-604 ⑥8-①9
TI A 6T122\A// F/ T\	1CT:1CT	350	1	25
TLA-6T133WLF(-T)	1CT:1CT	350	1	25

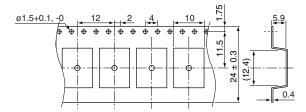
[•] Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

All specifications are subject to change without notice.



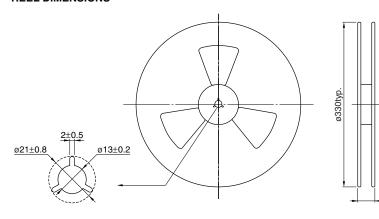
Quantity: 1000pieces/reel

TAPE DIMENSIONS

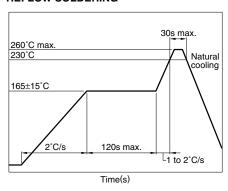


Dimensions in mm

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

Dimensions in mm

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.

30.4max.

[•] All specifications are subject to change without notice.



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

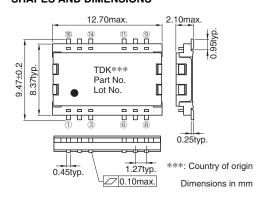
FEATURES

- · 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).

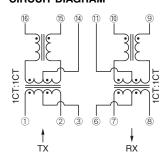
GENERAL SPECIFICATIONS

Pulse transformer		2	
Common-mode choke		2	
Port		1	
T	Operating	0 to +70°C	
Temperature ranges	Storage	-40 to +85°C	
Withstanding voltage		Erms:1500V[60s]	
vviii stariding voltage		L11113.1000 V [003]	

SHAPES AND DIMENSIONS

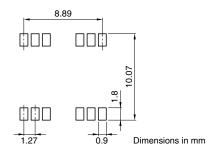


CIRCUIT DIAGRAM





RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

Part No.	Turns ratio ①③②:⑥④⑤	Inductance (μH)min. [DC bias 8mA, 100kHz]	Insertion loss (dB)max. [0.1 to 125MHz]	Inter-winding stray capacitance (pF)max.[100kHz]
	768:019	(6-(5) (0-9)	(0.7 to 123M12) (1/2-16/15 (10/9-7/8)	(p) /max.[100k12] ①2-1615 ①9-78
TLA-6T214ALF(-T)	1CT:1CT	350	1	25
1LA-01214ALF(-1)	1CT:1CT	350	1	25

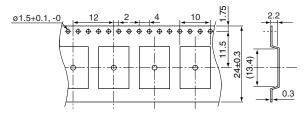
[•] Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

All specifications are subject to change without notice.



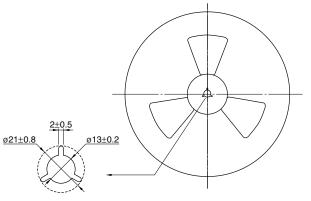
Quantity: 1500pieces/reel

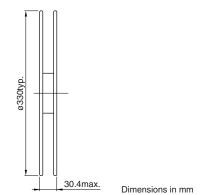
TAPE DIMENSIONS



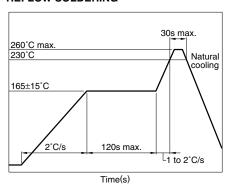
Dimensions in mm

REEL DIMENSIONS





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

[•] All specifications are subject to change without notice.



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

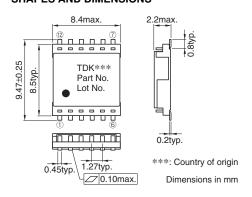
FEATURES

- · 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).

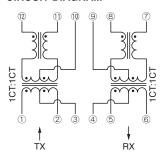
GENERAL SPECIFICATIONS

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

SHAPES AND DIMENSIONS

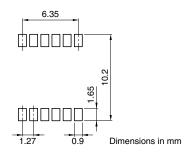


CIRCUIT DIAGRAM





RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

Part No.	Turns ratio ①32:②⑩⑪ 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

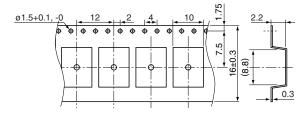
[•] Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

All specifications are subject to change without notice.



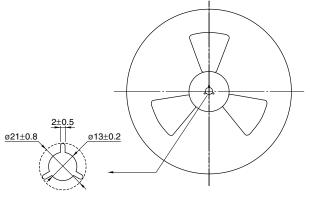
Quantity: 1500pieces/reel

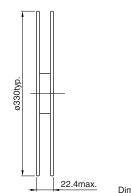
TAPE DIMENSIONS



Dimensions in mm

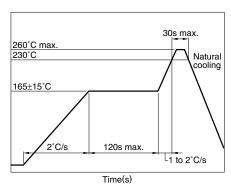
REEL DIMENSIONS





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-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

[•] All specifications are subject to change without notice.



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

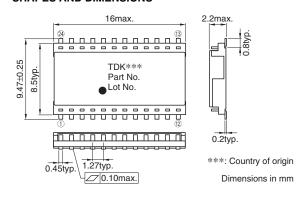
FEATURES

- · 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).

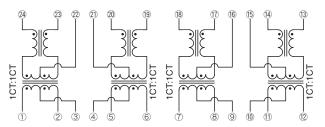
GENERAL SPECIFICATIONS

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

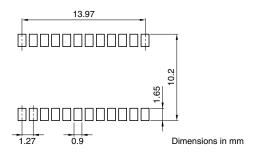
SHAPES AND DIMENSIONS



CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN





ELECTRICAL CHARACTERISTICS

Part No.	Turns ratio 1)3/2:24/23 5/46:20/19 7/98:18/61 1)10/2:14/5/3	Inductance (µH)min. [DC bias 8mA, 100kHz] 24-23 20-19 (8-17) (4)-13	Insertion loss (dB)max. [0.1 to 100MHz] ①2-243 ⑤6-209 ⑦8-180 ①102-143	Inter-winding stray capacitance (pF)max.[100kHz] ①2-29/23 ⑤⑥-29/9 ① ⑦⑥-10/9 ① ① ① ① ① ① ① ② ① ⑥ ① ② ① ⑥ ① ② ② ① ⑥ ① ① ② ② ② ②
TLA-7T201LF(-T)	1CT:1CT	350	1	25

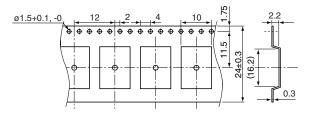
[•] Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

All specifications are subject to change without notice.



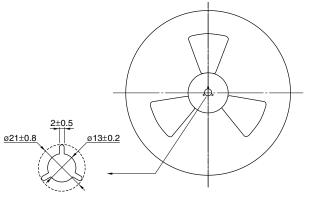
Quantity: 1500pieces/reel

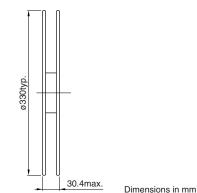
TAPE DIMENSIONS



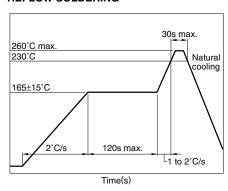
Dimensions in mm

REEL DIMENSIONS





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

[•] All specifications are subject to change without notice.



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

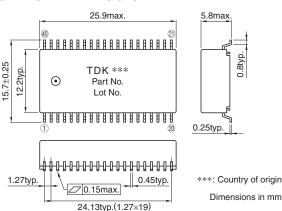
FEATURES

- · 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).

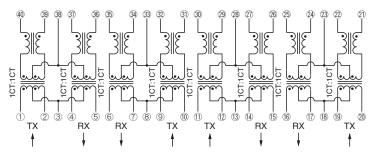
GENERAL SPECIFICATIONS

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

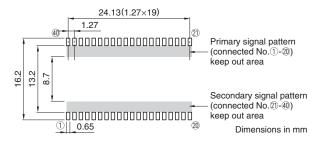
SHAPES AND DIMENSIONS



CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN





ELECTRICAL CHARACTERISTICS

Part No.	Turns ratio ①③②:④❸③ ④③⑤:③③⑤	Inductance (μH)min. [DC bias 8mA, 100kHz] 	Insertion loss (dB)max. [0.1 to 100MHz] ①②-⑩③ ④⑤-③⑥	Inter-winding stray capacitance (pF)max.[100kHz] ①②-⑩③ ④⑤-③⑤
TLA-6T406(-T)	1CT:1CT	350	1	40
1LA-01400(-1)	1CT:1CT	350	1	40

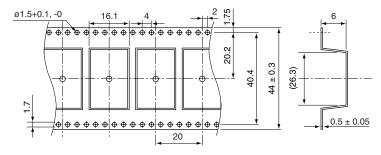
[•] Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

All specifications are subject to change without notice.



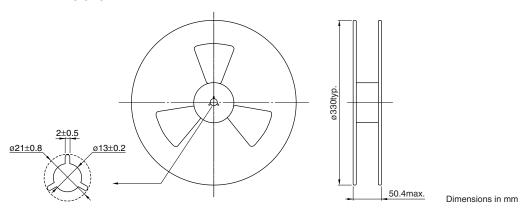
Quantity: 500pieces/reel

TAPE DIMENSIONS

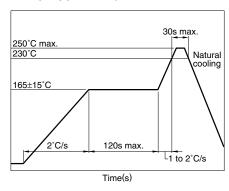


Dimensions in mm

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 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

[•] All specifications are subject to change without notice.



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

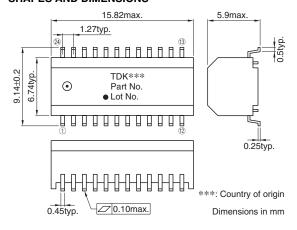
FEATURES

- · 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).

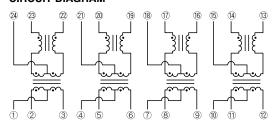
GENERAL SPECIFICATIONS

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

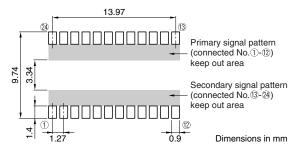
SHAPES AND DIMENSIONS



CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN





ELECTRICAL CHARACTERISTICS

Part No.	Turns ratio 2 ① 3 : 23 24 22 5 4 6 : 20 27 0 8 7 9 : ① 8 6 ① 0 0 2 : 4 5 3	Inductance (μH)min. [DC bias 8mA, 100kHz] ②-② ②-③ ①-⑤ ①-⑥	Insertion loss (dB)max. [0.1 to 100MHz] ②3-332 ⑤6-2019 ⑧9-1716 ①12-4613	Inter-winding stray capacitance (pF)max.[100kHz] ②③-②② ⑤⑥-②಄ ⑧⑨-①⑥ ①①-④③
TLA-7T101LF(-T)	1CT:1CT	350	1	25

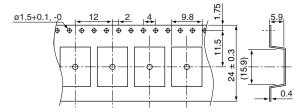
[•] Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

All specifications are subject to change without notice.



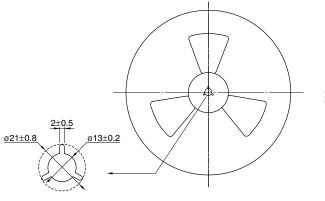
Quantity: 1000pieces/reel

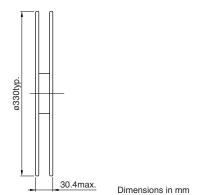
TAPE DIMENSIONS



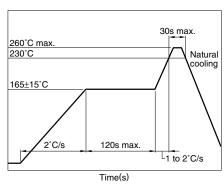
Dimensions in mm

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.

[•] All specifications are subject to change without notice.

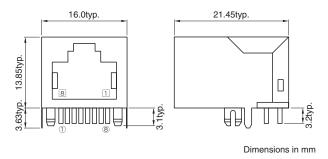


TLA-6T718A ISO8802.3(IEEE802.3) 10/100BASE-TX

FEATURES

- · Product conforming to RoHS directive.
- Pulse transformer, common mode choke, resistor and high withstanding 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.

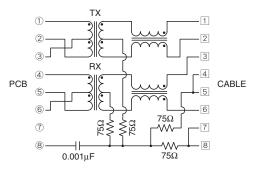
SHAPES AND DIMENSIONS



GENERAL SPECIFICATIONS

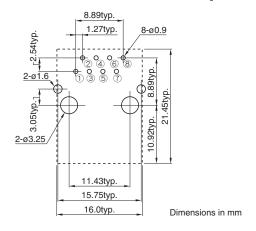
Pulse transformer		2	
Common-mode choke		2	
Port		1	
T	Operating	0 to +70°C	
Temperature ranges	Storage	−40 to +85°C	
Withstanding voltage		Erms:1500V[60s]	

CIRCUIT DIAGRAM



N.C. pin: ⑦

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 36-46	
TLA-6T718A	1CT:1	350	1	
ILA-01710A	1CT:1	350	1	

[•] Ta=25°C

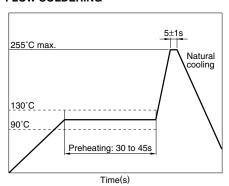
[•] Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

All specifications are subject to change without notice.



Tray: 400pieces/box

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.

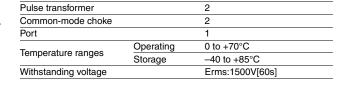
• All specifications are subject to change without notice.

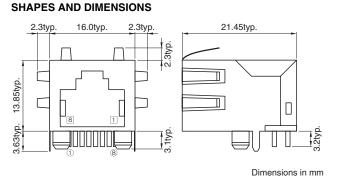


TLA-6T719A ISO8802.3(IEEE802.3) 10/100BASE-TX

FEATURES

- · Product conforming to RoHS directive.
- Pulse transformer, common mode choke, resistor and high withstanding 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.





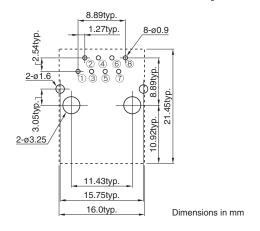
PCB $\frac{4}{6}$ $\frac{75\Omega}{8}$ $\frac{75\Omega}{75\Omega}$ $\frac{7}{8}$ $\frac{3}{8}$ $\frac{3}{4}$ CABLE

GENERAL SPECIFICATIONS

CIRCUIT DIAGRAM

N.C. pin: ⑦

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-6T719A	1CT:1	350	1
ILA-UII IJA	1CT:1	350	1

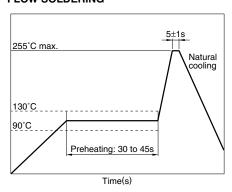
[•] Ta=25°C

- 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.



Tray: 360pieces/box

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.

[•] All specifications are subject to change without notice.



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

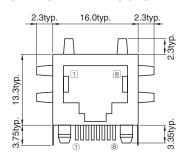
FEATURES

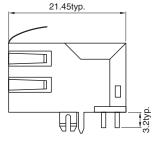
- · Product conforming to RoHS directive.
- Pulse transformer, common mode choke, resistor and high withstanding voltage capacitor are integrated into RJ-45 modular jack.
- Excellent common mode noise suppression.
- Inductance is 350µH or greater (f=100kHz, DC bias=8mA).
- · Using the high-quality and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

GENERAL SPECIFICATIONS

	2		
Common-mode choke			
Port			
Operating	0 to +70°C		
Storage	-40 to +85°C		
Withstanding voltage			
		- p	

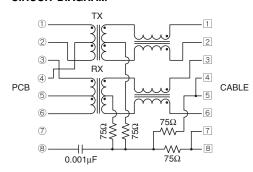
SHAPES AND DIMENSIONS





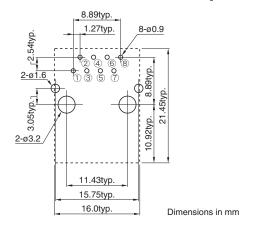
Dimensions in mm

CIRCUIT DIAGRAM



N.C. pin: ⑦

RECOMMENDED PC BOARD PATTERN[TOP VIEW]





ELECTRICAL CHARACTERISTICS

Part No.	Turns ratio ① 4 ② : 1 2 4 ⑤ ⑥ : 3 6	Inductance (μH)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	
1LA-01720	1CT:1	350	1	

[•] Ta=25°C

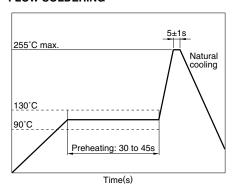
[•] Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

All specifications are subject to change without notice.



Tray: 360pieces/box

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.

[•] All specifications are subject to change without notice.

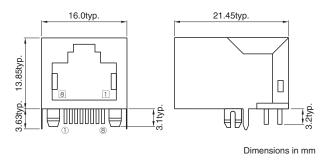


TLA-6T717W ISO8802.3(IEEE802.3) 10/100BASE-TX

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 withstanding 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.

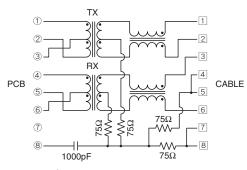
SHAPES AND DIMENSIONS



GENERAL SPECIFICATIONS

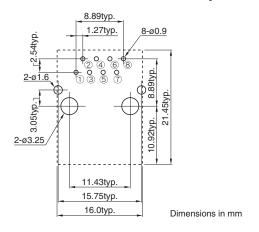
Pulse transformer		2	
Common-mode choke		2	
Port		1	
Tomporoture renese	Operating	-40 to +85°C	
Temperature ranges	Storage	-40 to +85°C	
Withstanding voltage		Erms:1500V[60s]	

CIRCUIT DIAGRAM



N.C. pin: 7

RECOMMENDED PC BOARD PATTERN[TOP VIEW]





ELECTRICAL CHARACTERISTICS

		Inductance	Insertion loss
	Turns ratio	(μH)min.	(dB)max.
Part No.	132:12	[DC bias 8mA, 100kHz]	[0.1 to 100MHz]
	465:36	1-2	12-12
		3-6	36-45
TLA-6T717W	1CT:1	350	1
1LA-01/1/W	1CT:1	350	1

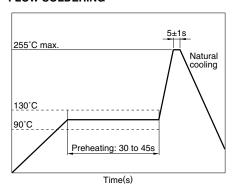
[•] Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

All specifications are subject to change without notice.



Tray: 400pieces/box

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.

[•] All specifications are subject to change without notice.



LC MODULES **Conformity to RoHS Directive**

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

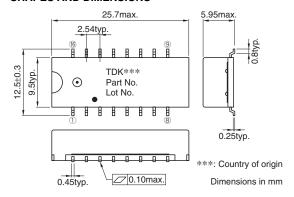
FEATURES

- · 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).

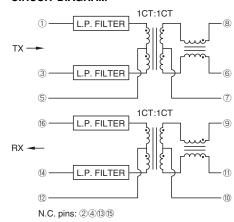
GENERAL SPECIFICATIONS

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

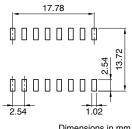
SHAPES AND DIMENSIONS



CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN



Dimensions in mm



ELECTRICAL CHARACTERISTICS

Part No.	Insertion loss (dB)max.[5 to 10MHz] ①3-8⑥ ⑨①-604	Attenuation (dB)min.[30 to 100MHz] ①3-⑧⑥ ⑨①-⑥⑭	Impedance (Ω)typ.[5 to 10MHz] ①-③, ⑧-⑥ ⑥-⑭, ⑨-⑪	C.M.R.R. (dB)min.[1 to 100MHz] ①③-⑧⑥ ⑯⑭-⑨⑪
TLA-3M103LF(-T)	1	25	100, 100	25
	1	25	100, 100	25

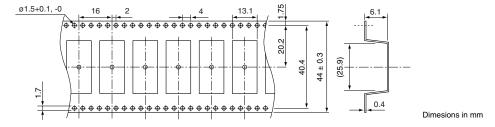
[•] Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

[·] All specifications are subject to change without notice.

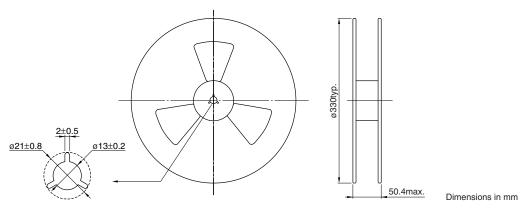


Quantity: 600pieces/reel

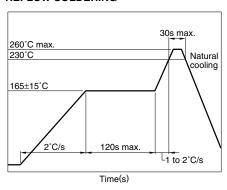
TAPE DIMENSIONS



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.

[•] All specifications are subject to change without notice.



IC Cross Reference

				Turns ra	atio	TDK part No.			
IC manufacturer	Interface	IC part No.	Ports	TX	RX	Single	Single (Low profile)	Quad	RJ45
AMD	10/100PAOF TV	Am79C874 Am79C875	1	1:1	1:1	TLA-6T103LF TLA-6T118LF	TLA-6T214ALF TLA-6T213LF	TLA-6T406	TLA-6T718A TLA-6T719A TLA-6T720
AMD	10/100BASE-TX	AII1/9C6/5	4	1.25:1	1:1	TLA-6T122LF	application)		
		Am79C973/975	1	1:1.41	1:1	(For power down TLA-6T121LF	аррисацоп)		
	10/100BASE-TX	AC101L BCM5241 BCM5226 BCM5208R/5228 BCM5238/5248	1 1 6 8 8	1:1	1:1	TLA-6T118LF	TLA-6T214ALF TLA-6T213LF	TLA-6T406	TLA-6T718A TLA-6T719A TLA-6T720
		BCM5220/5221 BCM5222	1 2	1:1	1:1	TLA-6T133WLF			TLA-6T717W
Broadcom	10/100BASE-TX (VoIP)	BCM1101 BCM1112/1113 BCM1115	2 2 1	1:1	1:1	TLA-6T127LF			
	10/100/1000BASE-T	BCM5401 BCM5421/S BCM5461/S BCM5703 BCM5705/M BCM5788/M	1 1 1 1 1	1:1	1:1	TLA-7T101LF	TLA-7T201LF		
-	10BASE-T	CS8900A(5V)	1	1:1.41	1:1	TLA-3T110LF			
CIRRUS LOGIC		CS8900A(3.3V)	1	1:2.5	1:1	TLA-3T112LF			TLA-6T718A
	10/100BASE-TX	CS8952 CS8952T	1	1:1	1:1	TLA-6T103LF TLA-6T118LF	TLA-6T214ALF TLA-6T213LF		TLA-6T719A TLA-6T720
	10BASE-T	DM9008 DM9081	1 8	1:1	1:1	TLA-3M103LF			
DAVICOM	10/100BASE-TX	DM9010 DM9000A	1 1	1:1	1:1	TLA-6T118LF	TLA-6T214ALF TLA-6T213LF		TLA-6T718A TLA-6T719A TLA-6T720
DAVIOON		DM9601 DM9102A DM9161	1 1 1	1:1	1:1	TLA-6T103LF TLA-6T118LF	TLA-6T214ALF TLA-6T213LF		TLA-6T718A TLA-6T719A TLA-6T720
Fujitsu	10BASE-T	DM9331 MB86967	1 1	1.25:1	1:1	TLA-6T122LF (For power down TLA-3M103LF	application)		
i ujitsu	TUDASE-T	ICS1892	1			TLA-6T103LF	TLA-6T214ALF		TLA-6T718A
ICS	10/100BASE-TX	ICS1893AF/AG	1	1:1	1:1	TLA-6T118LF	TLA-6T213LF		TLA-6T719A TLA-6T720
		ICS1893BF/BK	1	1:1	1:1	TLA-6T118LF	TLA-6T214ALF TLA-6T213LF		TLA-6T718A TLA-6T719A TLA-6T720
Infineon (ADMtek)	10/100BASE-TX	ADM7001 ADM7008 ADM6995L/6996L ADM6996F ADM6999/U/G	1 8 5 4 8	1:1	1:1	TLA-6T118LF	TLA-6T214ALF TLA-6T213LF	TLA-6T406	TLA-6T718A TLA-6T719A TLA-6T720
	10BASE-T	LXT901A/907A	1	1:1.14	1:1	TLA-3T110LF			
		LXT905/908 82559/ER 82562EP/ET/EX/EZ LXT972A/M LXT970A/971A	1 1 1 1 1	1:2	1:1	TLA-3T109LF TLA-6T103LF TLA-6T118LF	TLA-6T214ALF TLA-6T213LF		TLA-6T718A TLA-6T719A TLA-6T720
	10/100BASE-TX	82551QM/ER 82562GT/GZ/GX LXT973	1 1 2	1:1	1:1	TLA-6T118LF	TLA-6T214ALF TLA-6T213LF		TLA-6T718A TLA-6T719A TLA-6T720
		82551IT	1	1:1	1:1	TLA-6T133WLF			TLA-6T717W
Intel (Level One)		LXT974/975	4	2:1	1:1	TLA-6T120LF			TLA-6T718A
		LXT9785/E	8	1:1	1:1	TLA-6T118LF	TLA-6T214ALF TLA-6T213LF	TLA-6T406	TLA-6T719A TLA-6T720
	10/100/1000 BASE-T	82573E/V/L 82572EI 82571EB 82547GI/EI 82546EB/GB 82545EM/GM 82544GC/EI	1 1 2 1 2 1	1:1	1:1	TLA-7T101LF	TLA-7T201LF		
		82541PI/GI/EI/ER 82540EM/EP	1						

[•] All specifications are subject to change without notice.



IC			_	Turns	ratio	TDK part No.			
manufacturer	Interface	IC part No.	Ports	TX	RX	Single	Single (Low profile)	Quad	RJ45
LSI Logic	10/100BASE-TX	L80223 L80225 L80227	1 1 1	1:1	1:1	TLA-6T103LF TLA-6T118LF	TLA-6T214ALF TLA-6T213LF		TLA-6T718A TLA-6T719A TLA-6T720
Marvell	10/100/1000BASE-T	88E1000/S 88E1010/S 88E1011/S 88E1111	1 1 1	1:1	1:1	TLA-7T101LF	TLA-7T201LF		
		KSZ8001L/S KSZ8721B/BL/BT KSZ8721CL/SL	1 1 1	1:1	1:1	TLA-6T118LF	TLA-6T214ALF TLA-6T213LF		TLA-6T718A TLA-6T719A TLA-6T720
MICREL	10/100BASE-TX	KSZ8001LI KSZ8721BI/BLI/SLI KS8993I	1 1 1	1:1	1:1	TLA-6T133WLF			TLA-6T717W
(Kendin)	10/100BASE-1X	KSZ8993	1	1:1	1:1	TLA-6T103LF TLA-6T118LF	TLA-6T214ALF TLA-6T213LF		TLA-6T718A TLA-6T719A TLA-6T720
		KSZ8995XA KSZ8997 KSZ8999	5 8 9	1:1	1:1	TLA-6T118LF	TLA-6T214ALF TLA-6T213LF	TLA-6T406	TLA-6T718A TLA-6T719A TLA-6T720
Micro Linear	10/100BASE-TX	ML6652	1	1:1	1:1	TLA-6T118LF	TLA-6T214ALF TLA-6T213LF	TLA-6T406	TLA-6T718A TLA-6T719A TLA-6T720
		DP83847 DP83816	1	1:1	1:1	TLA-6T103LF TLA-6T118LF	TLA-6T214ALF TLA-6T213LF		TLA-6T718A TLA-6T719A TLA-6T720
National Semiconductor	10/100BASE-TX	DP83848C DP83848M	1	1:1	1:1	TLA-6T118LF	TLA-6T214ALF TLA-6T213LF		TLA-6T718A TLA-6T719A TLA-6T720
		DP83848H/I/T/YB	1	1:1	1:1	TLA-6T133WLF			TLA-6T717W
	10/100/1000BASE-T	DP83865	1	1:1	1:1	TLA-7T101LF	TLA-7T201LF		
	10BASE-T	RTL8019AS RTL8029AS	1 1	1:1	1:1	TLA-3M103LF			
	10/100BASE-TX	RTL8100B/C RTL8139C/D RTL8101L RTL8201BL/CL	1 1 1	1:1	1:1	TLA-6T103LF TLA-6T118LF	TLA-6T214ALF TLA-6T213LF		TLA-6T718A TLA-6T719A TLA-6T720
Realtek		RTL8201CP RTL8100E/8101E	1	1:1	1:1	TLA-6T118LF	TLA-6T214ALF TLA-6T213LF		TLA-6T718A TLA-6T719A TLA-6T720
		RTL8208/B	8	1:1	1:1	TLA-6T118LF	TLA-6T214ALF TLA-6T213LF	TLA-6T406	TLA-6T718A TLA-6T719A 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-6T718A TLA-6T719A TLA-6T720
Heliesas	10/100DAGE-1X	R4S76190N125BGV R4S76190W125BGV R4S76190D125BGV	1 1 1	1:1	1:1	TLA-6T133WLF			TLA-6T717W
	10BASE-T	LAN91C96	1	1:1	1:1	TLA-3M103LF			
		LAN83C185 LAN91C111 LAN9118 LAN9117 LAN9116 LAN9115	1 1 1 1 1	1:1	1:1	TLA-6T103LF TLA-6T118LF	TLA-6T214ALF TLA-6T213LF		TLA-6T718A TLA-6T719A TLA-6T720
SMSC	10/100BASE-TX	LAN8700 LAN8187 LAN9215	1 1 1	1:1	1:1	TLA-6T118LF	TLA-6T214ALF TLA-6T213LF		TLA-6T718A TLA-6T719A TLA-6T720
		LAN91C111I LAN8700I LAN8171I LAN9218I	1 1 1	1:1	1:1	TLA-6T133WLF			TLA-6T717W
Teridian		78Q2120C	1	1:1	1:1	TLA-6T103LF TLA-6T118LF	TLA-6T214ALF TLA-6T213LF		TLA-6T718A TLA-6T719A TLA-6T720
	10/100BASE-TX	78Q2123	1	1:1	1:1	TLA-6T118LF	TLA-6T214ALF TLA-6T213LF		TLA-6T718A TLA-6T719A TLA-6T720
•		78Q2133	1	1:1	1:1	TLA-6T133WLF			TLA-6T717W

[•] All specifications are subject to change without notice.