

Pulse transformers For LAN interface (10GBASE-T) **ALT** series













ALT4532H type

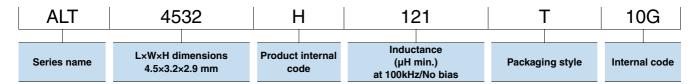
FEATURES

- The ALT series contains wound chip type pulse transformers developed for LANs.
- Ocompatible with 10GBASE-T.
- O High-quality product that uses auto winding.
- Oconforms to the RoHS directive.
- Operating temperature range: -40 to +85°C (including self-temperature rise)

APPLICATION

LAN interfaces of various devices including network devices, communication equipment, digital consumer electronics, etc.

■PART NUMBER CONSTRUCTION



CHARACTERISTICS SPECIFICATION TABLE

Turn ratio	Inductance [No bias, 100kHz]	Insertion loss	Inter-winding stray capacitance [100kHz]	Thickness T	Part No.
162:534	①-② ⑤-④	12-54			
	(μH)min.	(dB)max.	(pF)max.	(mm)max.	
1CT : 1CT	120	0.5 at 1-150MHz 1.0at 150-500MHz	35	2.9	ALT4532H-121-T10G

Measurement equipment

Measurement item	Product No.	Manufacturer
Inductance	4284A	Keysight Technologies
Insertion loss	E5071C	Keysight Technologies
Inter-winding stray capacitance	4284A	Keysight Technologies

^{*} Equivalent measurement equipment may be used.

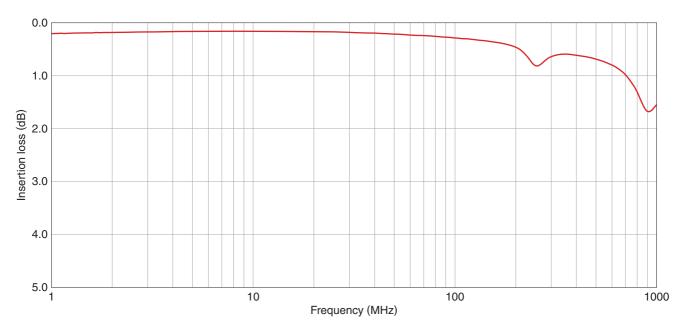


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ALT4532H type

■INSERTION LOSS VS. FREQUENCY CHARACTERISTICS



Measurement equipment

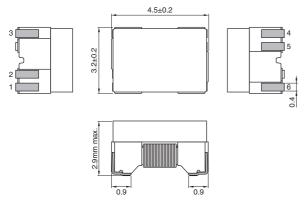
Product No.	Manufacturer
E5071C	Keysight Technologies

^{*} Equivalent measurement equipment may be used.



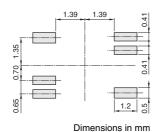
ALT4532H type

SHAPE & DIMENSIONS

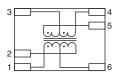


Dimensions in mm

■ RECOMMENDED LAND PATTERN

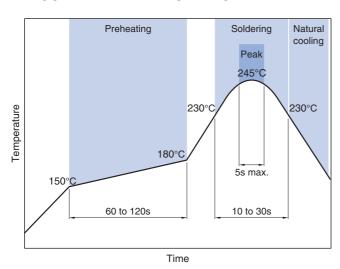


■ CIRCUIT DIAGRAM



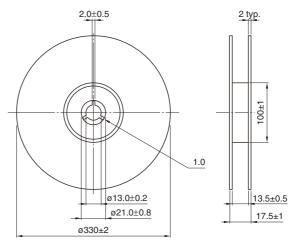
There is no directivity.

■ RECOMMENDED REFLOW PROFILE



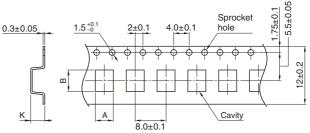
■ PACKAGING STYLE

REEL DIMENSIONS



Dimensions in mm

TAPE DIMENSIONS



Dimensions	in	mm
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Type	Α	В	K
ALT4532H	3.6±0.1	4.9±0.1	3.25max.

□PACKAGE QUANTITY

Package quantity	2,000 pcs/reel

TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating temperature range*	Storage temperature range**	Individual weight
-40 to +85°C	-40 to +85°C	160 mg

Operating temperature range includes self-temperature rise.

^{**} The storage temperature range is for after the assembly.



REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using this products.

REMINDERS The storage period is less than 12 months. Be sure to follow the storage conditions (temperature: 5 to 40°C, humidity: 10 to 75% RH or less). If the storage period elapses, the soldering of the terminal electrodes may deteriorate. On not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.). Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C. Soldering corrections after mounting should be within the range of the conditions determined in the specifications. If overheated, a short circuit, performance deterioration, or lifespan shortening may occur. When embedding a printed circuit board where a chip is mounted to a set, be sure that residual stress is not given to the chip due to the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions. O Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design. Carefully lay out the coil for the circuit board design of the non-magnetic shield type. A malfunction may occur due to magnetic interference. Use a wrist band to discharge static electricity in your body through the grounding wire. On not expose the products to magnets or magnetic fields. O Do not use for a purpose outside of the contents regulated in the delivery specifications. The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition. The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society,

- (1) Aerospace/aviation equipment
- (2) Transportation equipment (cars, electric trains, ships, etc.)
- (3) Medical equipment

person or property.

(4) Power-generation control equipment

set forth in the each catalog, please contact us.

- (5) Atomic energy-related equipment
- (6) Seabed equipment
- (7) Transportation control equipment

- (8) Public information-processing equipment
- (9) Military equipment
- (10) Electric heating apparatus, burning equipment
- (11) Disaster prevention/crime prevention equipment
- (12) Safety equipment
- (13) Other applications that are not considered general-purpose applications

When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.

If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions



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- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001:
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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