

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













ALT4532H type

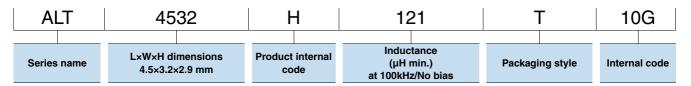
FEATURES

- 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.

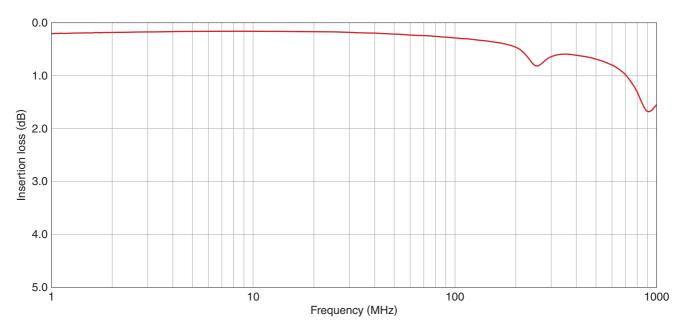


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ALT4532H type

■INSERTION LOSS VS. FREQUENCY CHARACTERISTICS



Measurement equipment

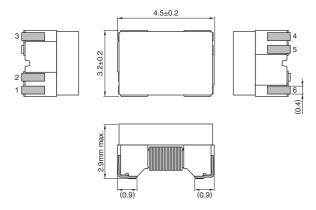
Product No.	Manufacturer
E5071C	Keysight Technologies

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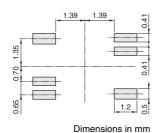
ALT4532H type

SHAPE & DIMENSIONS

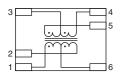


Dimensions in mm

■ RECOMMENDED LAND PATTERN

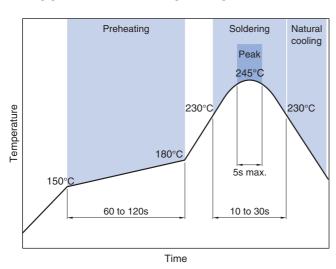


■ CIRCUIT DIAGRAM



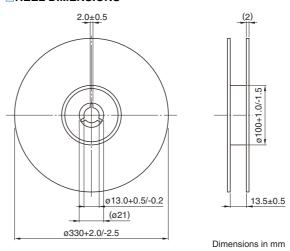
There is no directivity.

■ RECOMMENDED REFLOW PROFILE

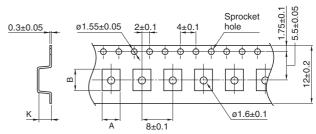


PACKAGING STYLE

□REEL DIMENSIONS



TAPE DIMENSIONS



Type	Α	В	K
ALT4532H	(3.6)	(4.9)	(3.05)

□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.

- (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