



Step-up Transformers

Wound SMD



ATB3225

[1210inch]*

* Dimensions Code JIS[EIA]



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 these products.

♠ REMINDERS	
The storage period is less than 6 months. Be sure to follow the storage conditions (Temperature: 5 to 40°C, Humidity: 10 to 75% R less). If the storage period elapses, the soldering of the terminal electrodes may deteriorate.	H or
Do 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.	ıre
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 the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions.	to to
 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.	
On 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	r
society, person or property. If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or condit	tions

- (1) Aerospace/Aviation equipment
- $\hbox{(2) Transportation equipment (cars, electric trains, ships, etc.)}\\$
- (3) Medical equipment
- (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.



Step-up Transformers

Wound SMD

Halogen-free Compatible with lead-free solders

Overview of the ATB Series

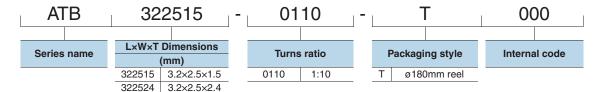
FEATURES

- Ocompact step-up transformer developed for Xenon circuits.
- O ATB3225 is smaller than conventional step-up transformers, which makes it possible to minimize the mounting area.
- O Auto winding allows for stable winding so that stable charging characteristics can be acquired.
- O Automated processing results in highly reliable products.

APPLICATION

Xenon Flash, HAPTICS

■ PART NUMBER CONSTRUCTION



■ OPERATING TEMPERATURE RANGE, PACKAGE QUANTITY, PRODUCT WEIGHT

Туре	Temperat	ure range		
	Operating temperature*	Storage temperature**	Package quantity	Individual weight
	(°C)	(°C)	(pieces/reel)	(mg)
ATB322515	−40 to +85°C	-40 to +85°C	1,000	50
ATB322524	−40 to +85°C	-40 to +85°C	1,000	80

^{*} Operating temperature range includes self-temperature rise.

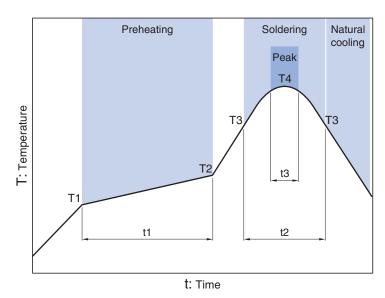
^{**} The Storage temperature range is for after the circuit board is mounted.

O Halogen-free: Indicates that CI content is less than 900ppm, Br content is less than 900ppm, and that the total CI and Br content is less than 1500ppm.



Overview of the ATB Series

■ RECOMMENDED REFLOW PROFILE



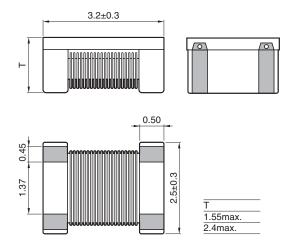
Preheating			Solderin	g	Peak	
Temp.		Time	Temp.	Time	Temp.	Time
T1	T2	t1	Т3	t2	T4	t3
150°C	180°C	60 to 120s	230°C	10 to 30s	245°C	5s max.



ATB series

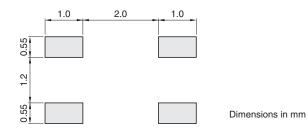
ATB3225 Type

SHAPE & DIMENSIONS

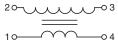


Dimensions in mm

■ RECOMMENDED LAND PATTERN



CIRCUIT DIAGRAM



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



ATB series ATB3225 Type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

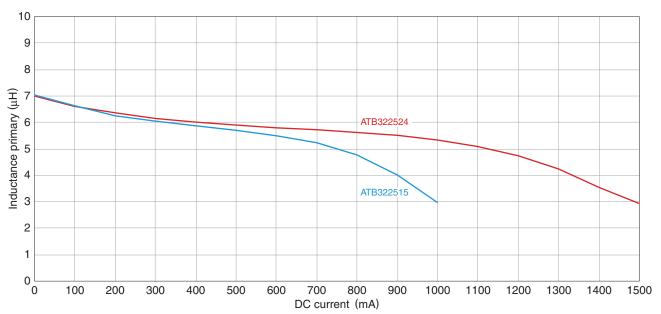
Turns ratio	Inductance	DC resistan	ce (Ω)	Leakage inductance	Withstanding	Rated current	Part No.	
Turns ratio	(µH)[at100kHz]	Primary Secondary (μΗ)[at100kHz]		voltage	nated current	Part No.		
1:10	7.0±20%	0.5max.	60max.	0.4max.	500V rms	0.6A rms	ATB322515-0110-T000	
1:10.2	7.0±20%	0.5max.	60max.	0.4max.	500V rms	0.7A rms	ATB322524-0110-T000	

O Measurement equipment

Measurement item	Product No.	Manufacturer
Inductance	4284A	Agilent Technologies
DC resistance	4338A	Agilent Technologies
Leakage inductance	4284A	Agilent Technologies
Withstanding voltage	4339A	Agilent Technologies

^{*} Equivalent measurement equipment may be used.

☐ INDUCTANCE VS. DC BIAS CHARACTERISTICS



$\bigcirc \ \text{Measurement equipment}$

Product No.	Manufacturer
4284A	Agilent Technologies

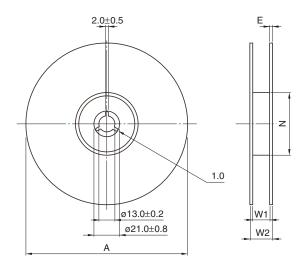
^{*} Equivalent measurement equipment may be used.



ATB series

Packaging style

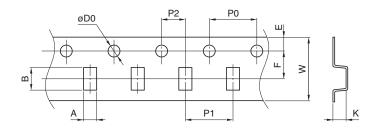
REEL DIMENSIONS



Type	Α	W1	W2	N	Е
ATB322515	ø180+0/-1.5	9+1/-0	13±1	60+1/-0	2 typ.
ATB322524	ø180+0/-1.5	9+1/-0	13±1	60+1/-0	2 typ.

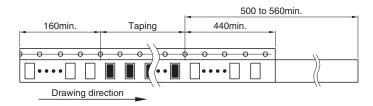
Dimensions in mm

TAPE DIMENSIONS



Dimensions in mm

Туре	Α	В	øD0	Е	F	P0	P1	P2	W	K
ATB322515	2.9±0.1	3.6±0.1	1.5+0.1/0	1.75±0.1	3.5±0.05	4.0±0.1	4.0±0.1	2.0±0.05	8.0±0.2	1.6±0.05
ATB322524	2.9±0.1	3.6±0.1	1.5+0.1/0	1.75±0.1	3.5±0.05	4.0±0.1	4.0±0.1	2.0±0.05	8.0±0.2	2.5±0.05



Dimensions in mm

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

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