



Step-up Transformers

Wound SMD

ATB series

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% RH or less).
If the storage period elapses, the soldering of the terminal electrodes may deteriorate.
- 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.
- 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.
- 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.
- Do not expose the products to magnets or magnetic fields.
- 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, 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 conditions set forth in the each catalog, please contact us.

- (1) Aerospace/Aviation equipment
- (2) Transportation equipment (cars, electric trains, ships, etc.)
- (3) Medical equipment
- (4) Power-generation control equipment
- (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

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

APPLICATION

Xenon Flash, HAPTICS

PART NUMBER CONSTRUCTION

ATB	322515	-	0110	-	T	000
Series name	LxWxT Dimensions (mm)		Turns ratio		Packaging style	Internal code
	322515	3.2x2.5x1.5	0110	1:10	T	ø180mm reel
	322524	3.2x2.5x2.4				

OPERATING TEMPERATURE RANGE, PACKAGE QUANTITY, PRODUCT WEIGHT

Type	Temperature range		Package quantity (pieces/reel)	Individual weight (mg)
	Operating temperature*	Storage temperature**		
	(°C)	(°C)		
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.

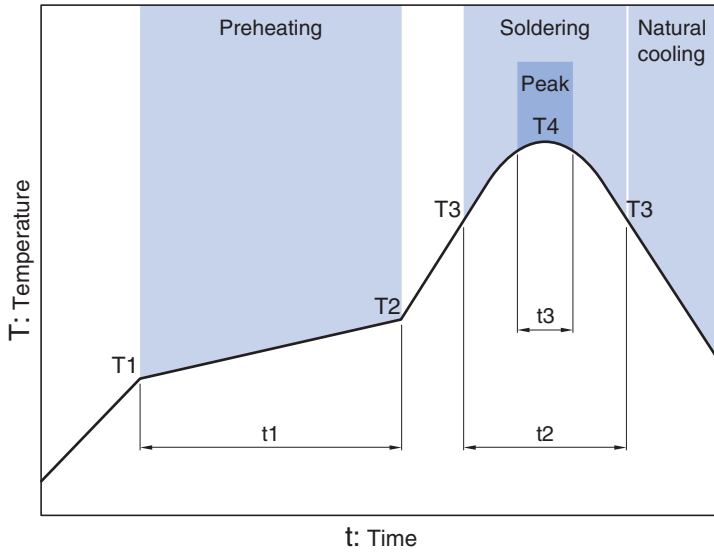
** The Storage temperature range is for after the circuit board is mounted.

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

• All specifications are subject to change without notice.

Overview of the ATB Series

RECOMMENDED REFLOW PROFILE

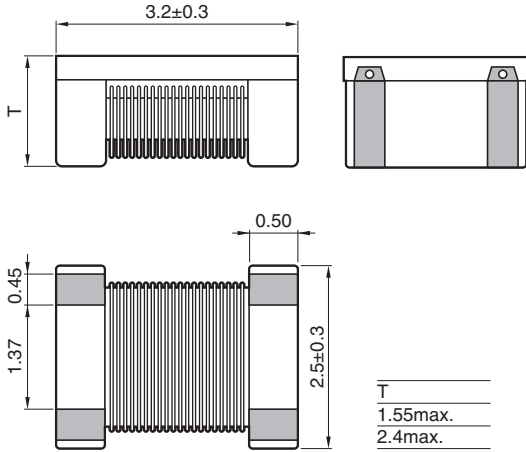


Preheating			Soldering		Peak	
Temp.	Temp.	Time	Temp.	Time	Temp.	Time
T1	T2	t1	T3	t2	T4	t3
150°C	180°C	60 to 120s	230°C	10 to 30s	245°C	5s max.

ATB series

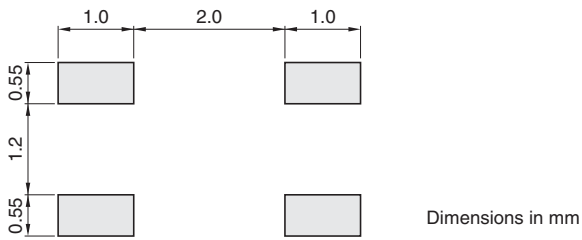
ATB3225 Type

SHAPE & DIMENSIONS



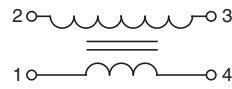
Dimensions in mm

RECOMMENDED LAND PATTERN



Dimensions in mm

CIRCUIT DIAGRAM



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ATB series ATB3225 Type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

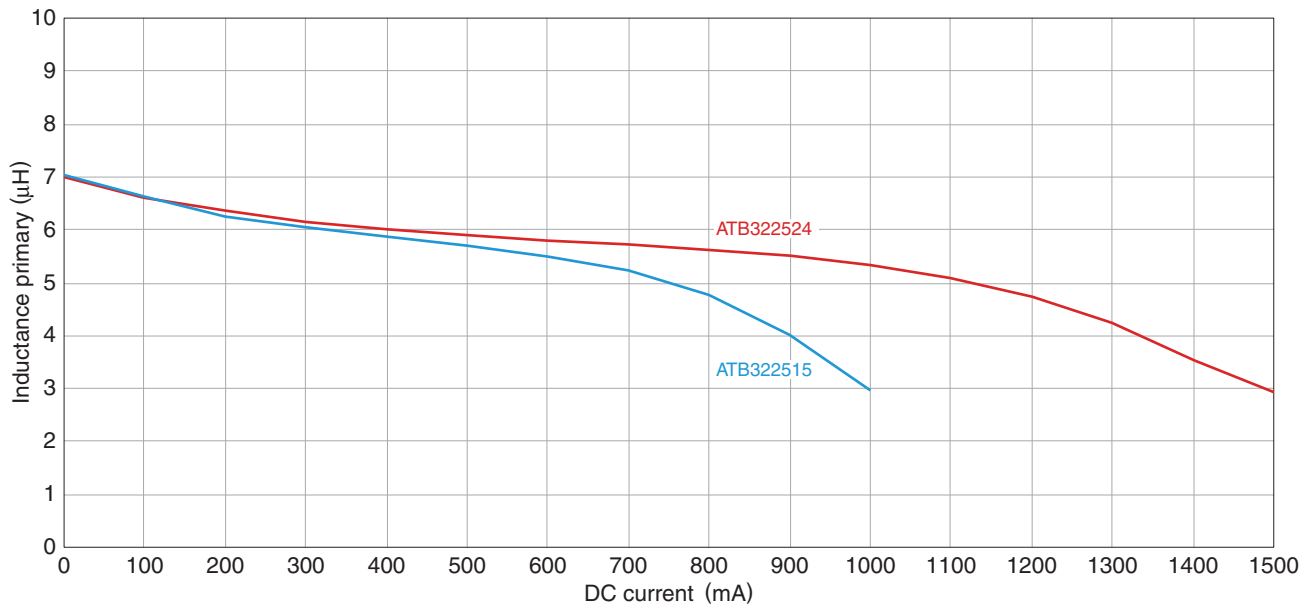
Turns ratio	Inductance (μH)[at100kHz]	DC resistance (Ω)		Leakage inductance (μH)[at100kHz]	Withstanding voltage	Rated current	Part No.
		Primary	Secondary				
1:10	7.0 \pm 20%	0.5max.	60max.	0.4max.	500V rms	0.6A rms	ATB322515-0110-T000
1:10.2	7.0 \pm 20%	0.5max.	60max.	0.4max.	500V rms	0.7A rms	ATB322524-0110-T000

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



Measurement equipment

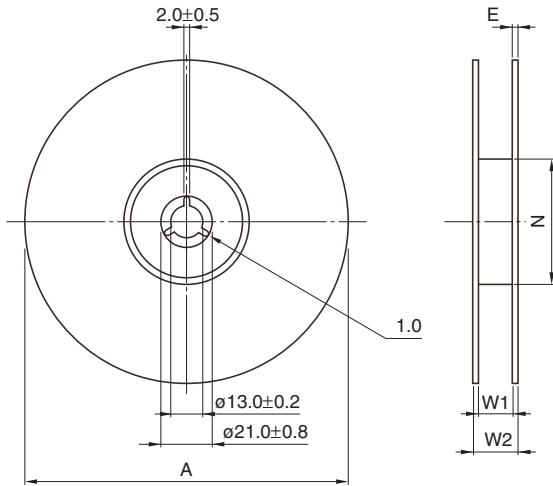
Product No.	Manufacturer
4284A	Agilent Technologies

* Equivalent measurement equipment may be used.

ATB series

Packaging style

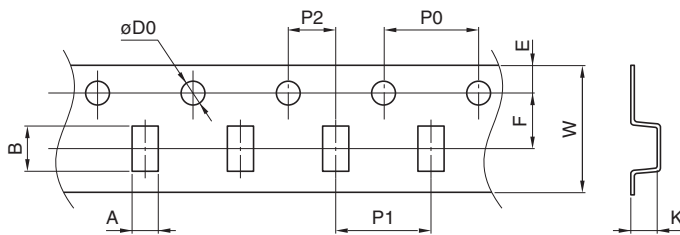
REEL DIMENSIONS



Dimensions in mm

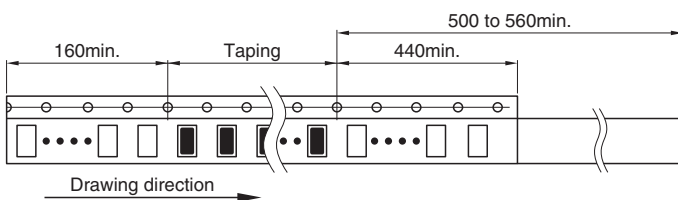
Type	A	W1	W2	N	E
ATB322515	$\phi 180+0/-1.5$	$9+1/-0$	13 ± 1	$60+1/-0$	2 typ.
ATB322524	$\phi 180+0/-1.5$	$9+1/-0$	13 ± 1	$60+1/-0$	2 typ.

TAPE DIMENSIONS



Dimensions in mm

Type	A	B	$\phi D0$	E	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

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- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
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- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
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JONHON

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