



# Step-up Transformers

## Wound SMD

### ATB Series ATB3225

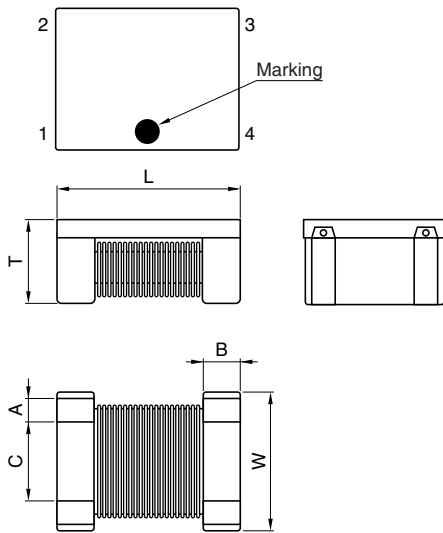
#### FEATURES

- Small step-up transformers developed for Xenon circuits.
- ATB3225 is smaller than existing step-up transformer products and enables a reduction of mounting surfaces.
- Achieves stable charging characteristics through an automatic wire winding function that allows for stable winding.
- Realizes high reliability through process automation.
- It is a product conforming to RoHS directive.

#### APPLICATIONS

Xenon Flash, HAPTICS

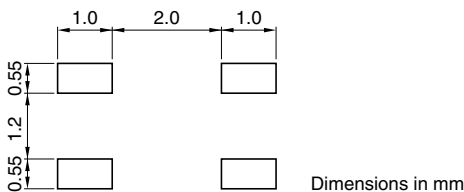
#### SHAPES AND DIMENSIONS



Dimensions in mm

	L	W	T	A	B	C
ATB322515	3.2±0.3	2.5±0.3	1.55 max.	0.45	0.50	1.37
ATB322524	3.2±0.3	2.5±0.3	2.4 max.	0.45	0.50	1.37

#### RECOMMENDED PC BOARD PATTERN



#### CIRCUIT DIAGRAM



#### PRODUCT IDENTIFICATION

ATB	322515	- 0110	- T	000
(1)	(2)	(3)	(4)	(5)

- (1) Series name  
 (2) Dimensions L×W×T  
 (3) Turns ratio  
 0110: 1 : 10  
 (5) Packaging style  
 T: Taping ø180mm reel  
 (6) TDK internal code

#### TEMPERATURE RANGE

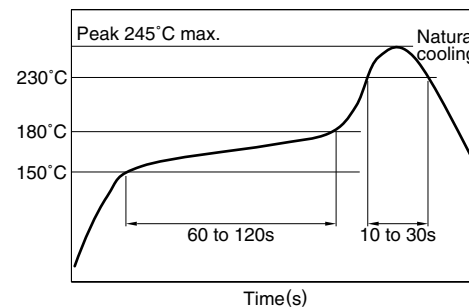
Operating	-40 to +85°C
Storage(After mount)	-40 to +85°C

#### PACKAGING STYLE AND QUANTITIES

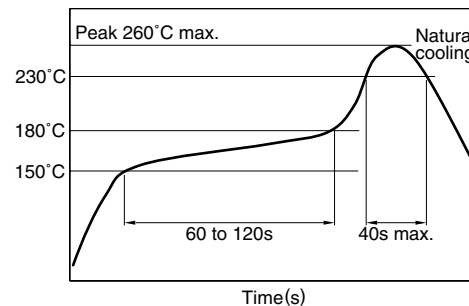
Packaging style	Reel	Quantity
Taping	ø180mm	1000 pieces/reel

#### RECOMMENDED SOLDERING CONDITIONS

#### RECOMMENDED TEMPERATURE PROFILE FOR LEAD-FREE SOLDER



#### REFLOW PROFILE FOR SOLDER HEAT RESISTANCE



• 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.

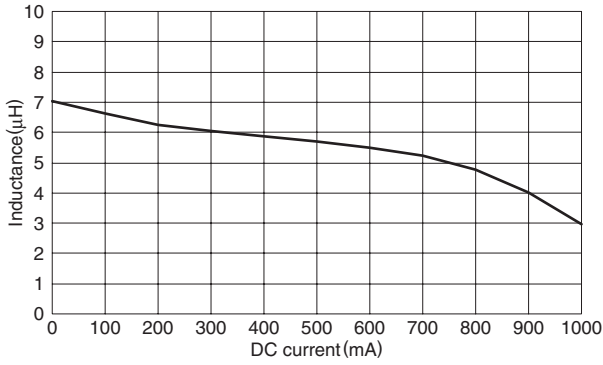
## ELECTRICAL CHARACTERISTICS

Part No.	Turns ratio	Inductance ( $\mu\text{H}$ )[at100kHz]	DC resistance( $\Omega$ )		Leakage inductance ( $\mu\text{H}$ )[at100kHz]	Withstanding voltage	Rated current
			Primary	Secondary			
ATB322515	1:10	7.0 $\pm$ 20%	0.4max.	60max.	0.4max.	500V rms	0.6A rms
ATB322524	1:10.2	7.0 $\pm$ 20%	0.4max.	60max.	0.4max.	500V rms	0.7A rms

## TYPICAL ELECTRICAL CHARACTERISTICS

### INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS

ATB322515-0110-\*\*\*\*



ATB322524-0110-\*\*\*\*

