

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.

- (1) Aerospace/Aviation equipment
- (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

Halogen-free Compatible with lead-free solders

Wound SMD

Overview of the ATB Series

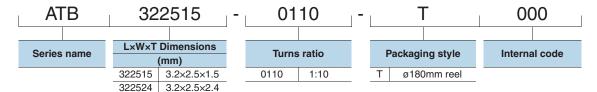
FEATURES

- Ocompact step-up transformer developed for Xenon circuits.
- 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.
- 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* | | | 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.

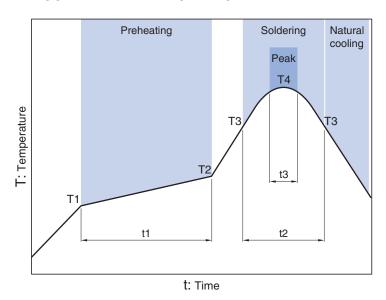
O Halogen-free: Indicates that CI content is less than 900ppm, Br content is less than 900ppm, and that the total CI and Br content is less than 1500ppm.

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



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. |

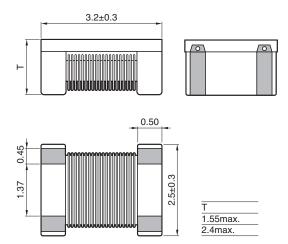
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ATB series

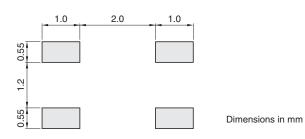
ATB3225 Type

SHAPE & DIMENSIONS

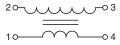


Dimensions in mm

■ RECOMMENDED LAND PATTERN



CIRCUIT DIAGRAM



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



ATB series ATB3225 Type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

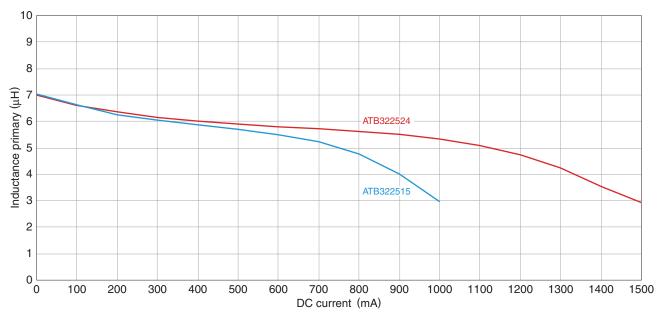
| Turns ratio | Inductance | DC resistance (Ω) | | Leakage inductance | Withstanding | Rated current | Part No. | |
|-------------|----------------|----------------------------|-----------|--------------------|--------------|---------------|---------------------|--|
| | (µH)[at100kHz] | Primary | Secondary | (µH)[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.

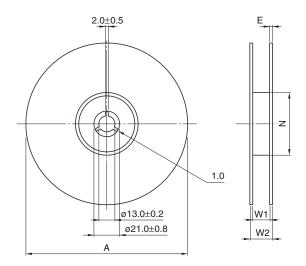
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ATB series

Packaging style

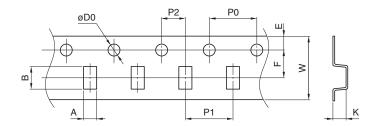
REEL DIMENSIONS



| Туре | 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. |

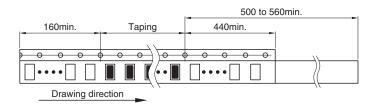
Dimensions in mm

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

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