

Balun transformers Wound SMD ATB series









ATB3225 type



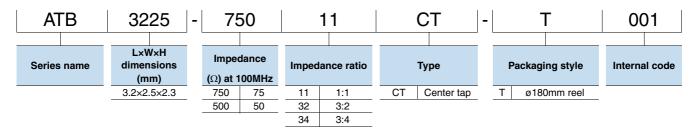
FEATURES

- The ATB3225 case size is L3.2×W2.5×H2.3mm.
- O The case size is smaller than conventional Baluns.
- The frequency band width for ATB3225-75011CT is 5 to 200MHz, for ATB3225-75032CT is 5 to 100MHz, for ATB3225-75034CT is 1 to 100MHz, and for ATB3225-50011CT is 1 to 100MHz.
- O Low insertion loss and good balance parameters.

APPLICATION

O Cable modem

■PART NUMBER CONSTRUCTION



CHARACTERISTICS SPECIFICATION TABLE

DC resistance (Ω)max.	Impedance ratio	Frequency range (MHz)	Insertion loss (dB)max.	Return loss (dB)min.	Amplitude unbalance (dB)max.	Phase difference (deg.)	Part No.
0.7	1:1 (75Ω:75Ω)	5 to 65	0.8	15	0.1	180±2	- ATB3225-75011CT-T001
0.7		5 to 200	1.5	10	0.5	180±5	
0.7	3:2 (75Ω:50Ω)	5 to 100	2	5	1	180±10	ATB3225-75032CT-T001
0.7	$3:4 (75\Omega:100\Omega)$	1 to 100	2	5	0.1	180±10	ATB3225-75034CT-T000
0.7	1:1(50Ω: 50Ω)	1	0.8	15	0.1	180±2	— ATB3225-50011CT-T000
0.7		100	1.5	10	0.5	180±5	

^{*} Temperature derating was considered for the rated current.

Measurement equipment

Measurement item	Product No.	Manufacturer	
Insertion loss	E5071B	Keysight Technologies	
Return loss	E5071B	Keysight Technologies	
Amplitude unbalance	E5071B	Keysight Technologies	
Phase difference	E5071B	Keysight Technologies	

^{*} Equivalent measurement equipment may be used.



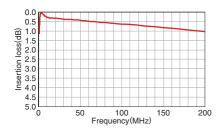


ATB3225 type

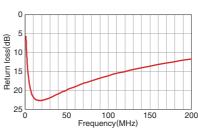
FREQUENCY CHARACTERISTICS

ATB3225-75011CT-T001

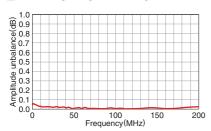
□INSERTION LOSS



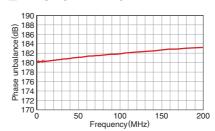
☐ RETURN LOSS



□ AMPLITUDE UNBALANCE

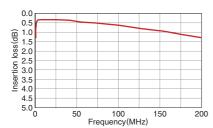


☐ PHASE UNBALANCE

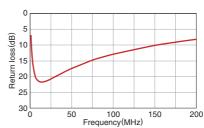


ATB3225-75032CT-T001

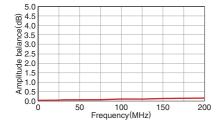
□INSERTION LOSS



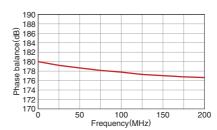
☐ RETURN LOSS



☐ AMPLITUDE BALANCE



☐ PHASE BALANCE



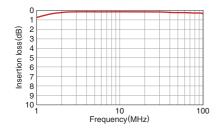


ATB3225 type

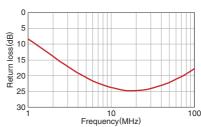
FREQUENCY CHARACTERISTICS

ATB3225-75034CT-T000

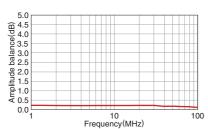
□INSERTION LOSS



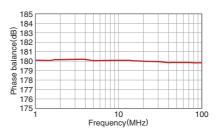
☐ RETURN LOSS



☐ AMPLITUDE IMBALANCE

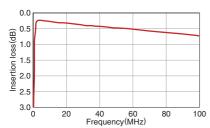


☐ PHASE BALANCE

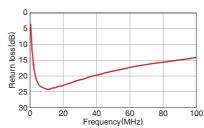


ATB3225-50011CT-T000

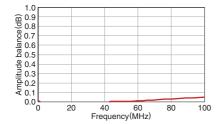
□INSERTION LOSS



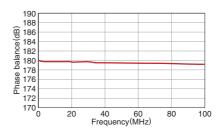
☐ RETURN LOSS



■ AMPLITUDE IMBALANCE



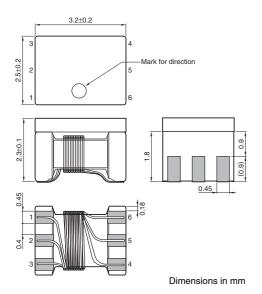
☐ PHASE BALANCE



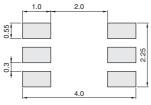


ATB3225 type

SHAPE & DIMENSIONS

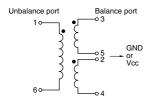


■ RECOMMENDED LAND PATTERN

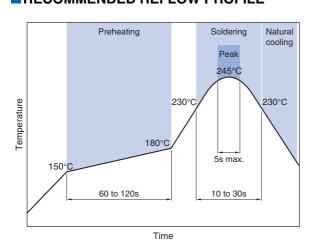


Dimensions in mm

CIRCUIT DIAGRAM

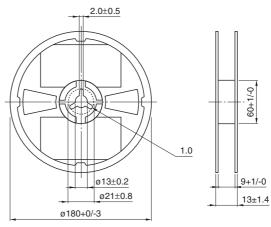


■ RECOMMENDED REFLOW PROFILE



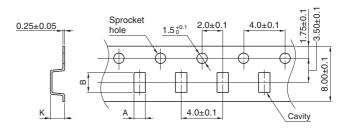
■ PACKAGING STYLE

REEL DIMENSIONS



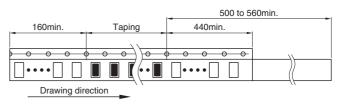
Dimensions in mm

TAPE DIMENSIONS



Dimensions in mm

Type	Α	В	K
ATB3225	2.90+0.1	3.60+0.1	2.5+0.05



Dimensions in mm

PACKAGE QUANTITY

Package quantity	1000 pcs/reel

■TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating temperature range	Storage temperature range*	Individual weight
-40 to +85°C	−40 to +85°C	75 mg

^{*} 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.

⚠ REMINDERS
The storage period is within 6 months. Be sure to follow the storage conditions (temperature: 5 to 40°C, humidity: 10 to 75% RH cless).
If the storage period elapses, the soldering of the terminal electrodes may deteriorate.
On 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 t 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 therma 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 qua

- (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.

ity require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society,

If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions



OOO «ЛайфЭлектроникс" "LifeElectronics" LLC

ИНН 7805602321 КПП 780501001 P/C 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 3010181090000000703 БИК 044030703

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С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

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- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

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- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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