

Wound Chip Baluns

ATB Series

Type: **ATB3225-75011CT (3.2×2.5×2.3mm)**
 ATB3225-75032CT (3.2×2.5×2.3mm)
 ATB3225-75034CT (3.2×2.5×2.3mm)

Issue date: June 2012

- All specifications are subject to change without notice.
 - 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.
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Wound Chip Baluns

Conformity to RoHS Directive

ATB Series ATB3225-75011CT

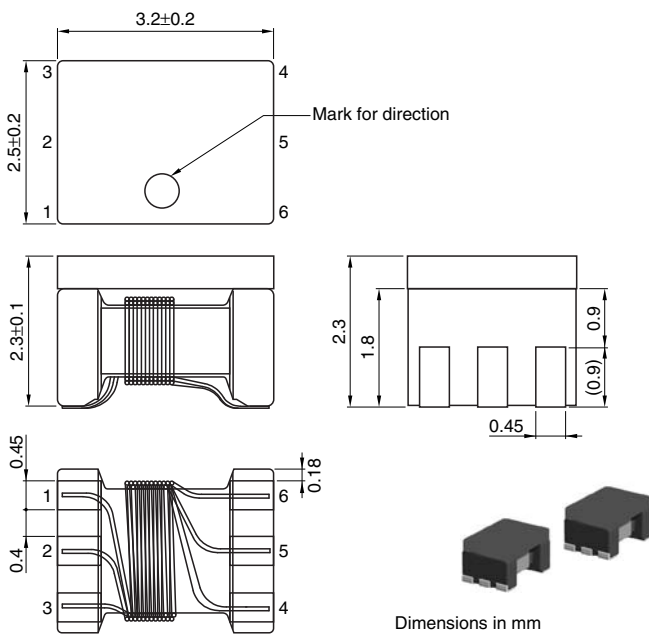
FEATURES

- Case size of ATB3225 is L3.2×W2.5×H2.3mm.
- This case size is smaller than traditional Balun.
- Frequency band width is 5 to 200MHz.
- Low insertion loss and good balance parameter.
- It is a product conforming to RoHS directive.

APPLICATIONS

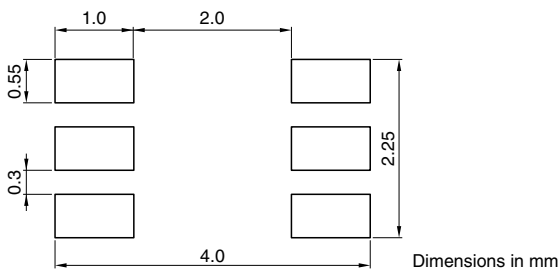
Cable modems

SHAPES AND DIMENSIONS



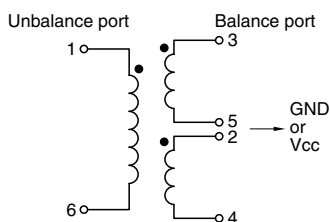
Dimensions in mm

RECOMMENDED PC BOARD PATTERN



Dimensions in mm

CIRCUIT DIAGRAM



PRODUCT IDENTIFICATION

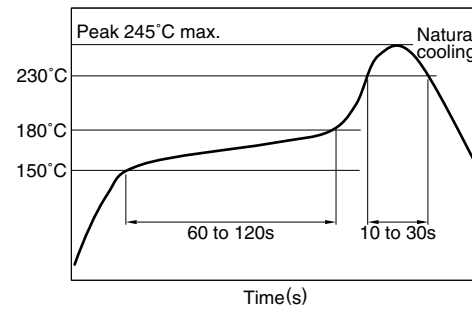
ATB	3225	-	750	11	CT
(1)	(2)	(3)	(4)	(5)	

- (1) Series name
- (2) Case size
- (3) Impedance[at 100MHz]
750: 75Ω
- (4) Impedance ratio
11 → 1:1
- (5) Type
CT: Center tap

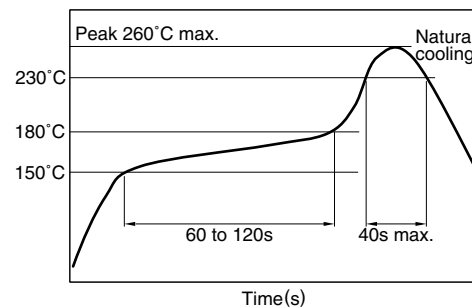
TEMPERATURE RANGES

Operating	-25 to +85°C
Storage(After mount)	-25 to +85°C

RECOMMENDED SOLDERING CONDITIONS RECOMMENDED TEMPERATURE PROFILE FOR LEAD-FREE SOLDER



REFLOW PROFILE FOR SOLDER HEAT RESISTANCE



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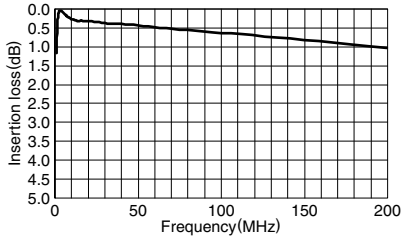
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ELECTRICAL CHARACTERISTICS

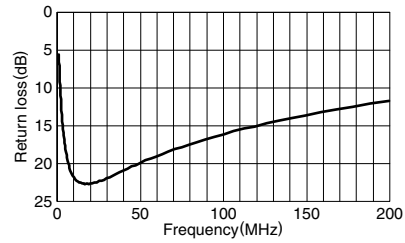
Part No.	DC resistance (Ω)max.	Impedance ratio	Frequency range (MHz)	Insertion loss (dB)		Return loss (dB)min.	Amplitude unbalance (dB)max.	Phase unbalance (deg.)
				typ.	max.			
ATB3225-75011CT	0.7	1:1 (75 Ω :75 Ω)	5 to 200	0.8	1.5	10	0.5	180 \pm 5

FREQUENCY CHARACTERISTICS

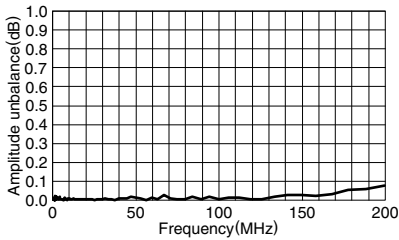
INSERTION LOSS



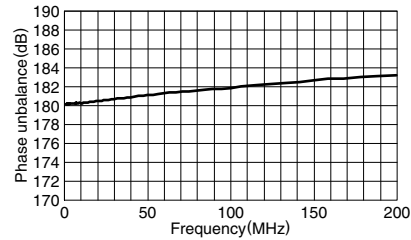
RETURN LOSS



AMPLITUDE UNBALANCE



PHASE UNBALANCE



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Wound Chip Baluns

Conformity to RoHS Directive

ATB Series ATB3225-75032CT

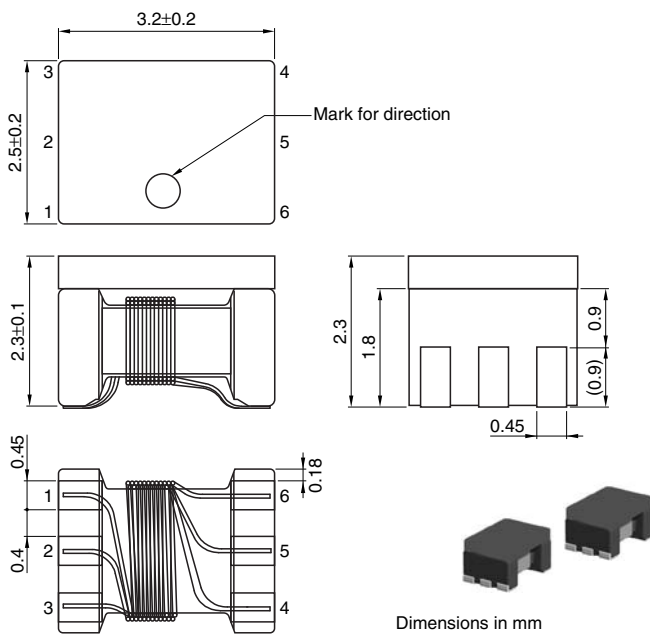
FEATURES

- Case size of ATB3225 is L3.2×W2.5×H2.3mm.
- This case size is smaller than traditional Balun.
- Frequency band width is 5 to 100MHz.
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APPLICATIONS

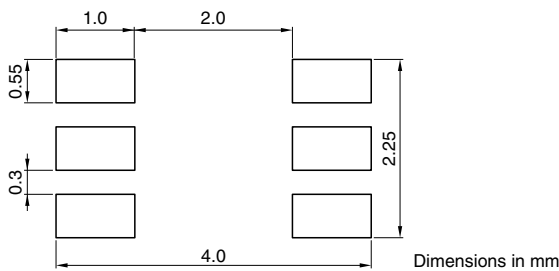
Cable modems

SHAPES AND DIMENSIONS



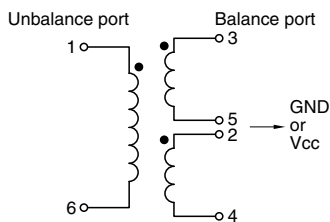
Dimensions in mm

RECOMMENDED PC BOARD PATTERN



Dimensions in mm

CIRCUIT DIAGRAM



PRODUCT IDENTIFICATION

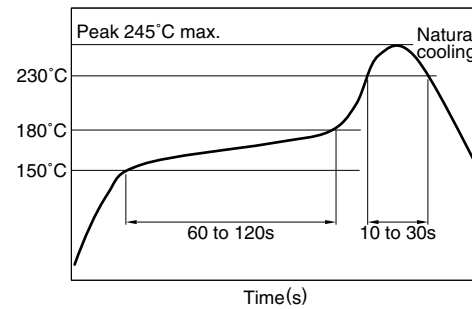
ATB	3225	-	750	32	CT
(1)	(2)	(3)	(4)	(5)	

- (1) Series name
- (2) Case size
- (3) Impedance[at 100MHz]
750: 75Ω
- (4) Impedance ratio
32 → 3:2
- (5) Type
CT: Center tap

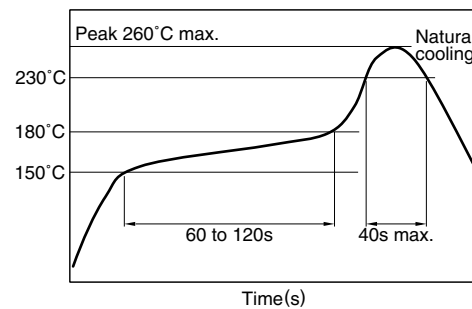
TEMPERATURE RANGES

Operating	-25 to +85°C
Storage(After mount)	-25 to +85°C

RECOMMENDED SOLDERING CONDITIONS RECOMMENDED TEMPERATURE PROFILE FOR LEAD-FREE SOLDER



REFLOW PROFILE FOR SOLDER HEAT RESISTANCE



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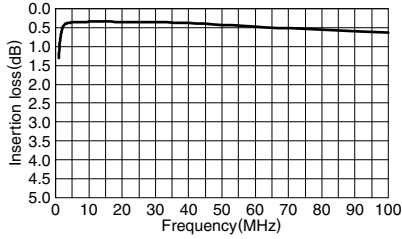
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ELECTRICAL CHARACTERISTICS

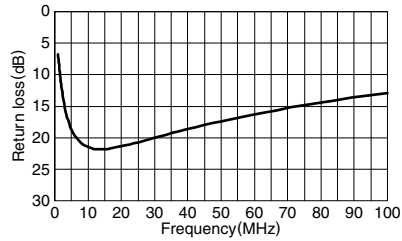
Part No.	DC resistance (Ω)max.	Impedance ratio	Frequency range (MHz)	Insertion loss (dB)		Return loss (dB)min.	Amplitude unbalance (dB)max.	Phase unbalance (deg.)
				typ.	max.			
ATB3225-75032CT	0.7	3:2 (75 Ω :50 Ω)	5 to 100	0.8	2	5	1	180 \pm 10

FREQUENCY CHARACTERISTICS

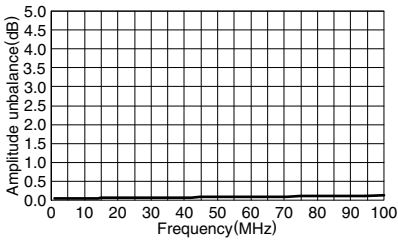
INSERTION LOSS



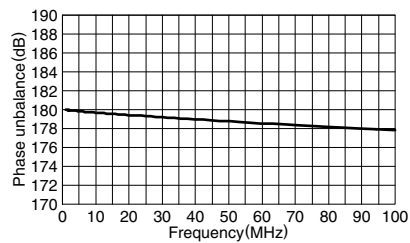
RETURN LOSS



AMPLITUDE UNBALANCE



PHASE UNBALANCE



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Wound Chip Baluns

Conformity to RoHS Directive

ATB Series ATB3225-75034CT

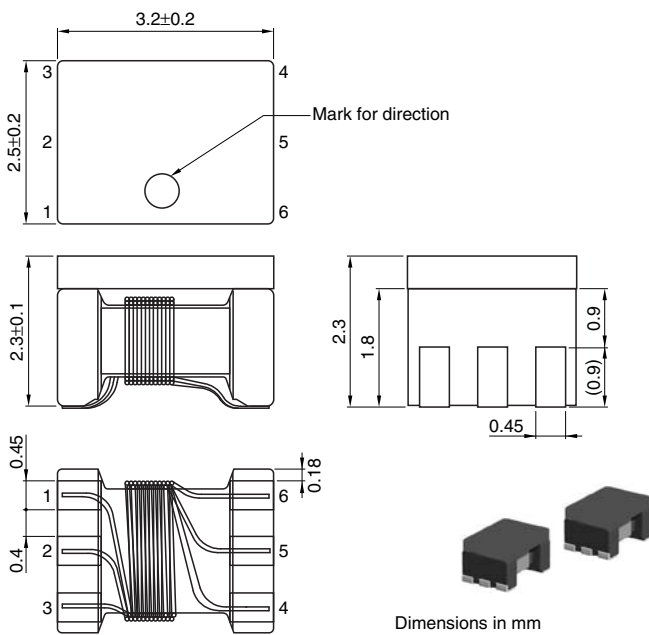
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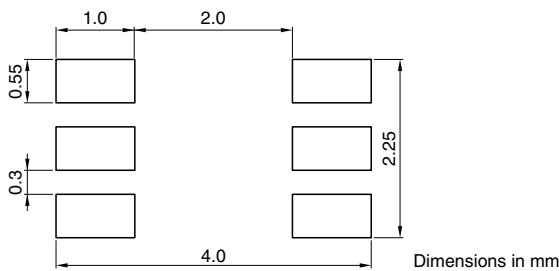
APPLICATIONS

Cable modems

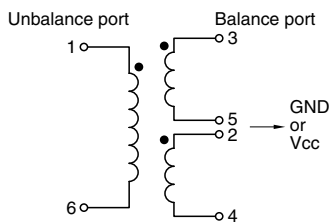
SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERN



CIRCUIT DIAGRAM



PRODUCT IDENTIFICATION

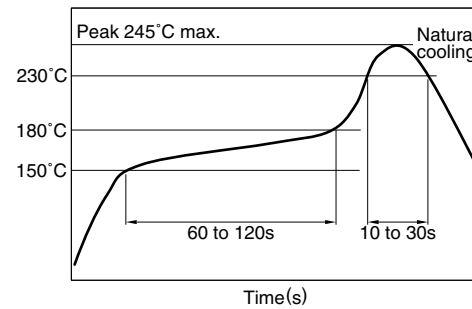
ATB	3225	-	750	34	CT
(1)	(2)	(3)	(4)	(5)	

- (1) Series name
- (2) Case size
- (3) Impedance[at 100MHz]
750: 75Ω
- (4) Impedance ratio
34 → 3:4
- (5) Type
CT: Center tap

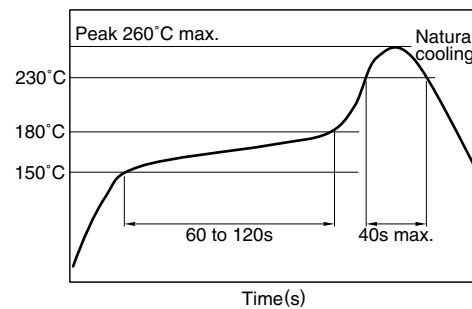
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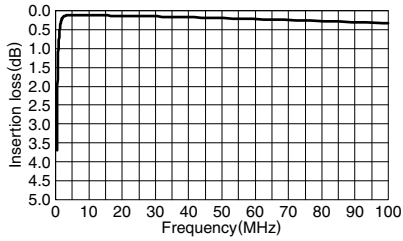
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ELECTRICAL CHARACTERISTICS

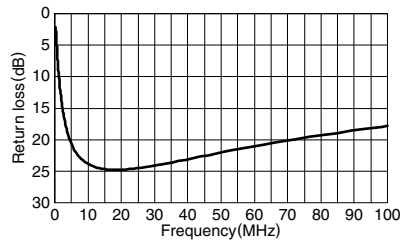
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				typ.	max.			
ATB3225-75034CT	0.7	3:4 (75Ω:100Ω)	1 to 100	0.5	2	5	1	180±10

FREQUENCY CHARACTERISTICS

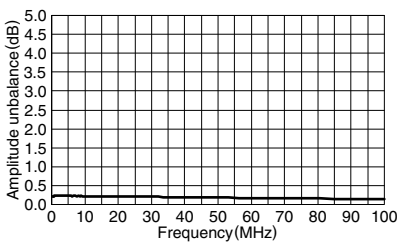
INSERTION LOSS



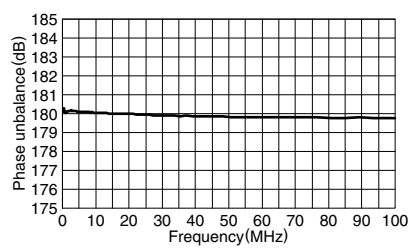
RETURN LOSS



AMPLITUDE UNBALANCE



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