Wound Chip Baluns

ATB Series

Type: **ATB2012-50011 (2.0×1.2×1.2mm)**
ATB2012-75011 (2.0×1.2×1.2mm)
ATB2012E-50011M (2.0×1.2×1.0mm)
ATB2012E-75011M (2.0×1.2×1.0mm)

Issue date: February 2013

- 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.

Wound Chip Baluns

Conformity to RoHS Directive

ATB Series ATB2012-50011

FEATURES

- ATB2012-50011 is chip BALUN transformer developed for 50Ω impedance system.
- Input impedance is 50Ω.
- Impedance ration is 1:1.
- Frequency band width is 40MHz to 860MHz. (IL=1.0dB typ.)
- It is a product conforming to RoHS directive.

APPLICATIONS

Tuner for TV, mobile devices (e.g. DVB-T/H, ISDB-T)
Power divider for STB and tuner

PRODUCT IDENTIFICATION

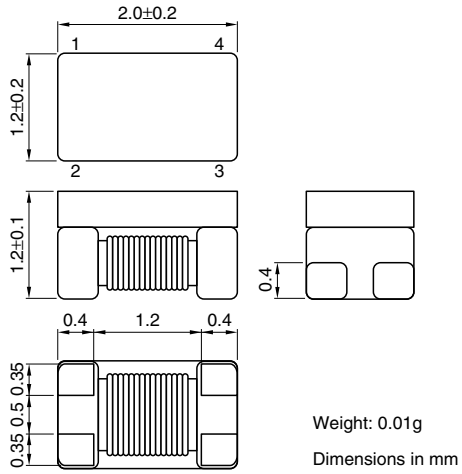
ATB	2012	-	500	11	-	T	□□□
(1)	(2)		(3)	(4)		(5)	(6)

(1) Series name
(2) Case size
(3) Input impedance
500: 50Ω
(4) Impedance ratio
11: 1:1
(5) Packing style
T: Taping ø180mm reel
TL: Taping ø330mm reel
(6) Control mark

PACKAGING STYLE AND QUANTITIES

Packaging style	Reel	Quantity
Taping	ø180mm	2000 pieces/reel
	ø330mm	10000 pieces/reel

SHAPES AND DIMENSIONS

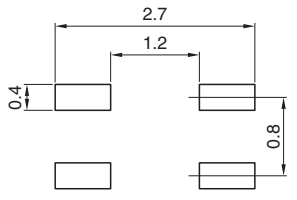




Weight: 0.01g

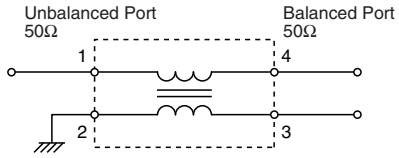
Dimensions in mm

RECOMMENDED PC BORARD PATTERN



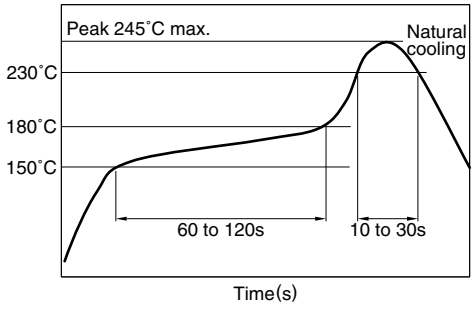
Dimensions in mm

CIRCUIT DIAGRAM

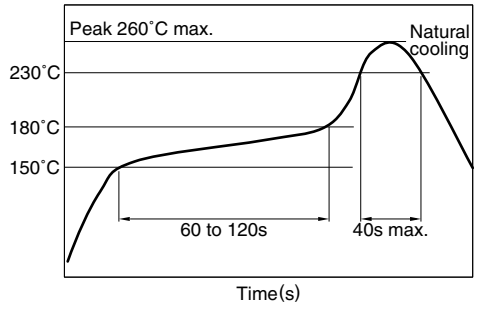


RECOMMENDED SOLDERING CONDITIONS

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.

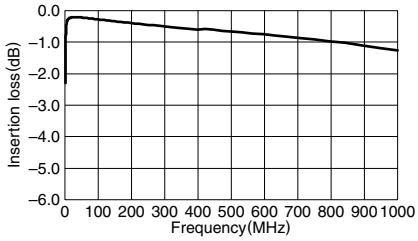
• All specifications are subject to change without notice.

ELECTRICAL CHARACTERISTICS

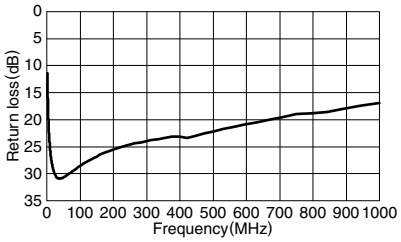
Part No.	Frequency range (MHz)	UB/B Impedance (Ω)	Insertion loss (dB) typ.	Insertion loss (dB) max.	CMRR min.	DC resistance (Ω)max.	Rated current (mA)	Rated voltage (V)	Insulation resistance (MΩ)	Withstanding voltage (V)
ATB2012-50011-T□□□	40 to 860	50/50	1.0	2.5	20	1.0	200	20	10	125

FREQUENCY CHARACTERISTICS

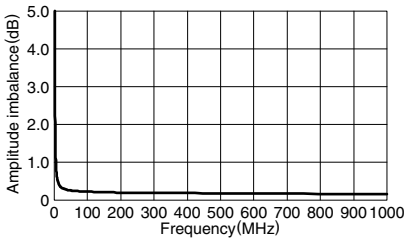
INSERTION LOSS



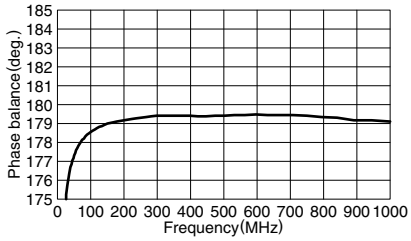
RETURN LOSS



AMPLITUDE IMBALANCE



PHASE BALANCE



Wound Chip Baluns

Conformity to RoHS Directive

ATB Series ATB2012-75011

FEATURES

- ATB2012-75011 is chip BALUN transformer developed for 75Ω impedance system.
- Input impedance is 75Ω.
- Impedance ration is 1:1.
- Frequency band width is 50MHz to 1.2GHz. (IL=1.2dB typ.)
- It is a product conforming to RoHS directive.

APPLICATIONS

Tuner for TV, mobile devices (e.g. DVB-T/H, ISDB-T)
Power divider for STB and tuner

PRODUCT IDENTIFICATION

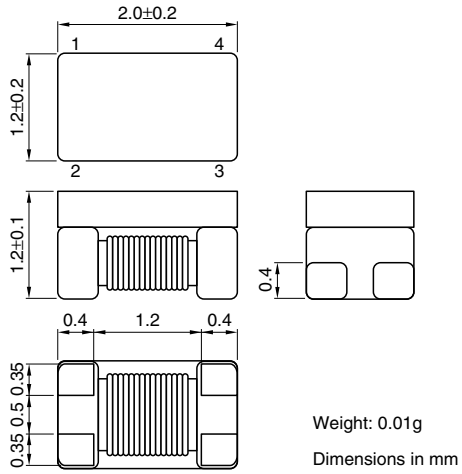
ATB	2012	-	750	11	-	T	□□□
(1)	(2)		(3)	(4)		(5)	(6)

(1) Series name
(2) Case size
(3) Input impedance
750: 75Ω
(4) Impedance ratio
11: 1:1
(5) Packing style
T: Taping ø180mm reel
TL: Taping ø330mm reel
(6) Control mark

PACKAGING STYLE AND QUANTITIES

Packaging style	Reel	Quantity
Taping	ø180mm	2000 pieces/reel
	ø330mm	10000 pieces/reel

SHAPES AND DIMENSIONS

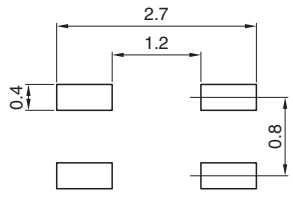




Weight: 0.01g

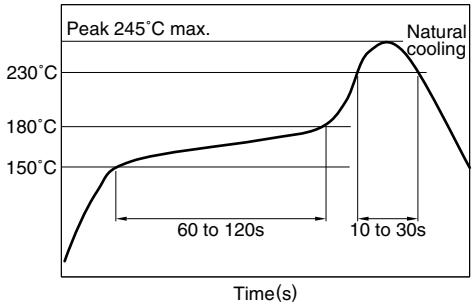
Dimensions in mm

RECOMMENDED PC BORARD PATTERN

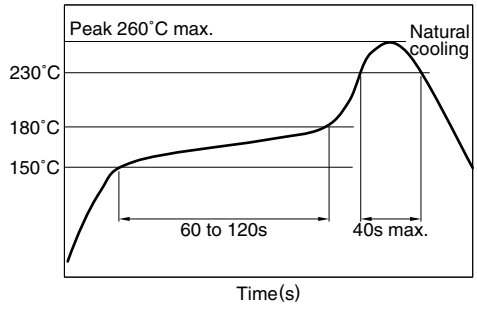


Dimensions in mm

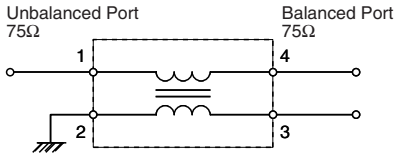
RECOMMENDED SOLDERING CONDITIONS
RECOMMENDED TEMPERATURE PROFILE FOR LEAD-FREE SOLDER



REFLOW PROFILE FOR SOLDER HEAT RESISTANCE



CIRCUIT DIAGRAM



- 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.

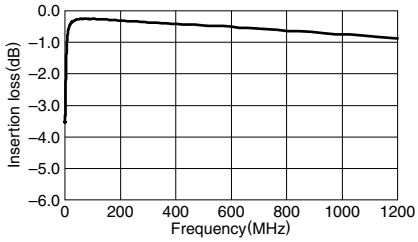
• All specifications are subject to change without notice.

ELECTRICAL CHARACTERISTICS

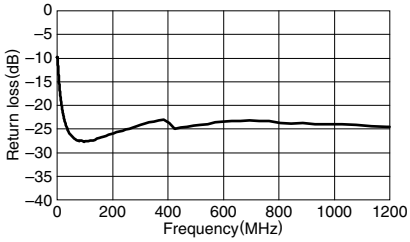
Part No.	Frequency range (MHz)	UB/B Impedance (Ω)	Insertion loss (dB) max.	CMRR min.	DC resistance (Ω)	Rated current (mA)	Rated voltage (V)	Insulation resistance (MΩ)	Withstanding voltage (V)
ATB2012-75011-T□□□	50 to 1200	75/75	1.2	20	0.7	280	20	10	125

FREQUENCY CHARACTERISTICS

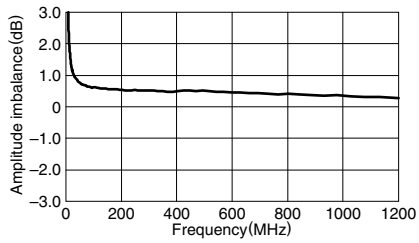
INSERTION LOSS



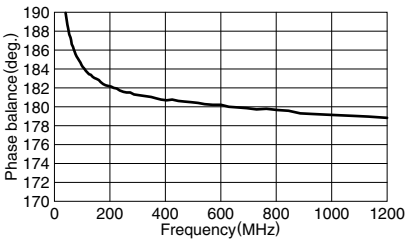
RETURN LOSS



AMPLITUDE IMBALANCE



PHASE BALANCE



Wound Chip Baluns

Conformity to RoHS Directive

ATB Series ATB2012E-50011M

FEATURES

- ATB2012E-50011M is chip BALUN transformer developed for 50Ω impedance system.
- Input impedance is 50Ω.
- Impedance ration is 1:1.
- Frequency band width is 400MHz to 1.8GHz. (IL=1.0dB typ.)
- It is a product conforming to RoHS directive.

APPLICATIONS

Tuner for TV, mobile devices (e.g. DVB-T/H, ISDB-T)
Power divider for STB and tuner

PRODUCT IDENTIFICATION

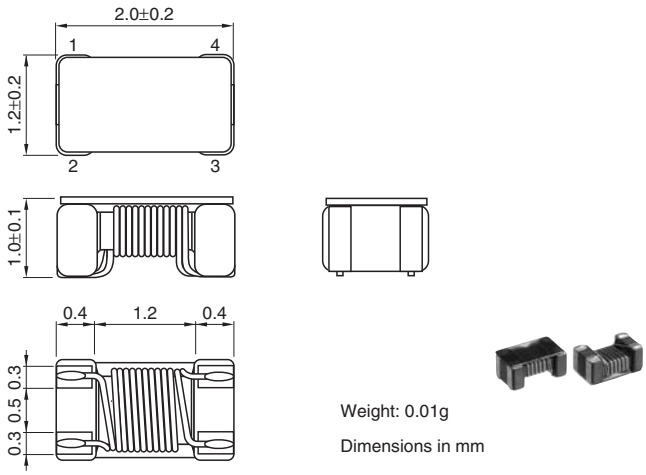
ATB	2012E	-	500	11	M	-	T	□□
(1)	(2)		(3)	(4)	(5)		(6)	(7)

(1) Series name
(2) Case size
(3) Input impedance
500: 50Ω
(4) Impedance ratio
11: 1:1
(5) Product identification
(6) Packaging style
T: Taping ø180mm reel
TL: Taping ø330mm reel
(7) Control mark

PACKAGING STYLE AND QUANTITIES

Packaging style	Reel	Quantity
Taping	ø180mm	2000 pieces/reel
	ø330mm	10000 pieces/reel

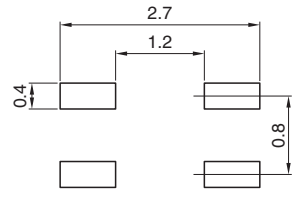
SHAPES AND DIMENSIONS



Weight: 0.01g

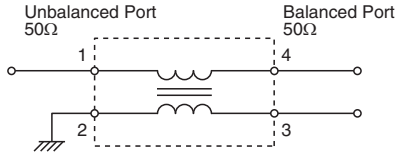
Dimensions in mm

RECOMMENDED PC BORARD PATTERN

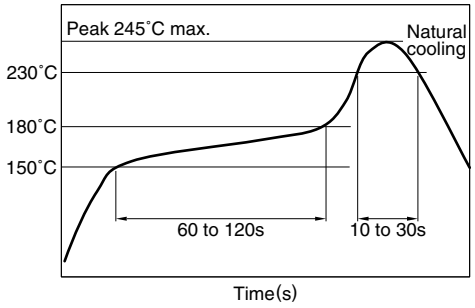


Dimensions in mm

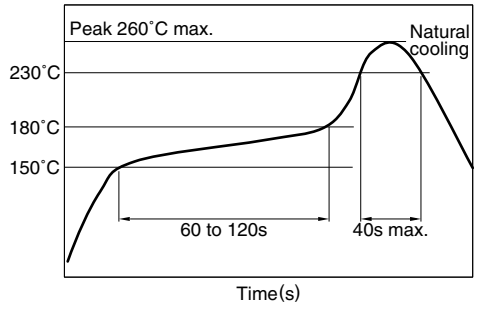
CIRCUIT DIAGRAM



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.

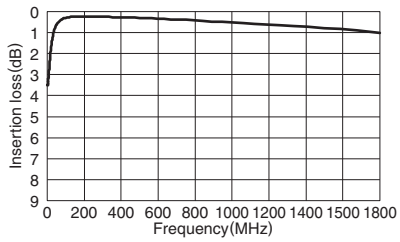
• All specifications are subject to change without notice.

ELECTRICAL CHARACTERISTICS

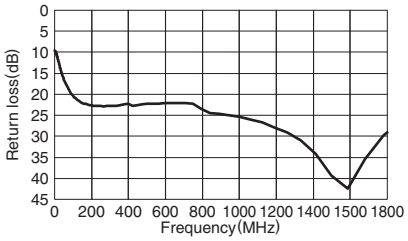
Part No.	Frequency range (MHz)	UB/B Impedance (Ω)	Insertion loss [1.8GHz] (dB)		CMRR min.	DC resistance (Ω)max.	Rated current (mA)	Rated voltage (V)	Insulation resistance (MΩ)	Withstanding voltage (V)
			typ.	max.						
ATB2012E-50011M-T□□	400 to 1800	50/50	1.0	2.2	15	0.5	150	20	10	125

FREQUENCY CHARACTERISTICS

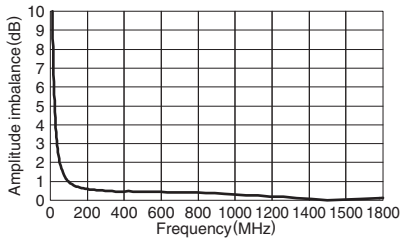
INSERTION LOSS



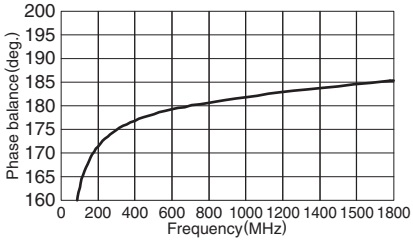
RETURN LOSS



AMPLITUDE IMBALANCE



PHASE BALANCE



Wound Chip Baluns

Conformity to RoHS Directive

ATB Series ATB2012E-75011M

FEATURES

- ATB2012E-75011M is chip BALUN transformer developed for 75Ω impedance system.
- Input impedance is 75Ω.
- Impedance ration is 1:1.
- Frequency band width is 400MHz to 1.8GHz. (IL=1.0dB typ.)
- It is a product conforming to RoHS directive.

APPLICATIONS

Tuner for TV, mobile devices (e.g. DVB-T/H, ISDB-T)
Power divider for STB and tuner

PRODUCT IDENTIFICATION

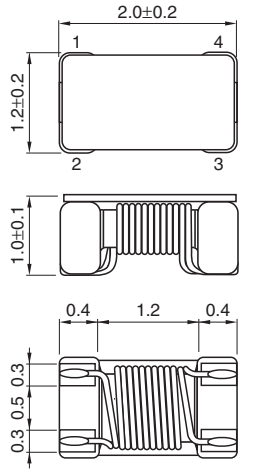
ATB	2012E	-	750	11	M	-	T	□□
(1)	(2)		(3)	(4)	(5)		(6)	(7)

(1) Series name
(2) Case size
(3) Input impedance
  750: 75Ω
(4) Impedance ratio
  11: 1:1
(5) Product identification
(6) Packaging style
  T: Taping ø180mm reel
  TL: Taping ø330mm reel
(7) Control mark

PACKAGING STYLE AND QUANTITIES

Packaging style	Reel	Quantity
Taping	ø180mm	2000 pieces/reel
	ø330mm	10000 pieces/reel

SHAPES AND DIMENSIONS

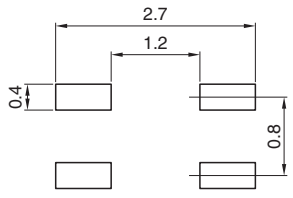




Weight: 0.01g

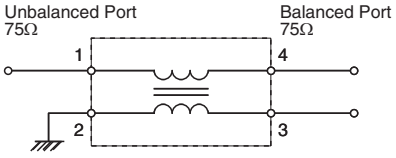
Dimensions in mm

RECOMMENDED PC BORARD PATTERN

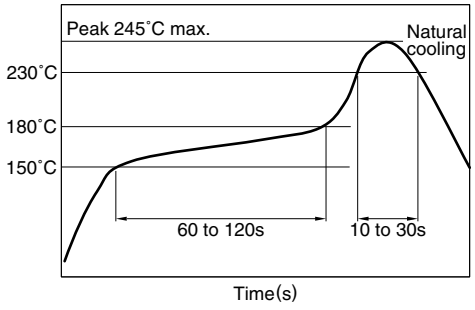


Dimensions in mm

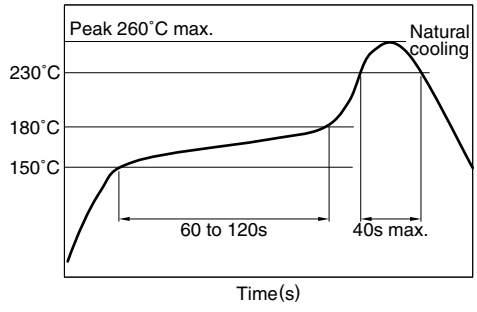
CIRCUIT DIAGRAM



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.

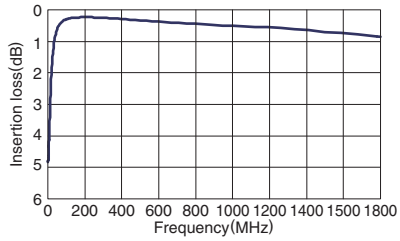
• All specifications are subject to change without notice.

ELECTRICAL CHARACTERISTICS

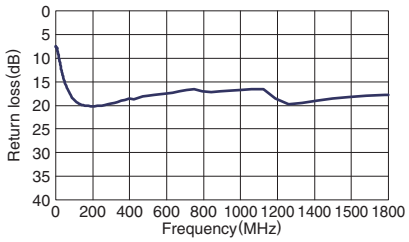
Part No.	Frequency range (MHz)	UB/B impedance (Ω)	Insertion loss [1.8GHz] (dB)		CMRR min.	DC resistance (Ω)max.	Rated current (mA)	Rated voltage (V)	Insulation resistance (MΩ)	Withstanding voltage (V)
			typ.	max.						
ATB2012E-75011M-T□□	400 to 1800	75/75	1.0	2	15	0.5	150	20	10	125

FREQUENCY CHARACTERISTICS

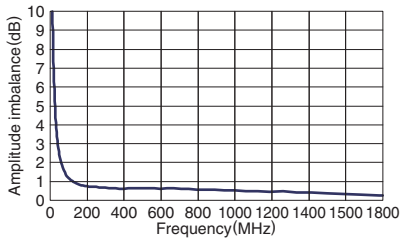
INSERTION LOSS



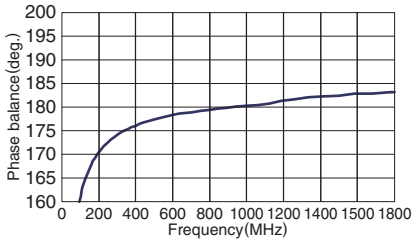
RETURN LOSS



AMPLITUDE IMBALANCE



PHASE BALANCE



Стандарт Электрон Связь

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

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Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

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С нами вы становитесь еще успешнее!

Наши контакты:

Телефон: +7 812 627 14 35

Электронная почта: sales@st-electron.ru

Адрес: 198099, Санкт-Петербург, Промышленная ул, дом № 19, литера Н, помещение 100-Н Офис 331