

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

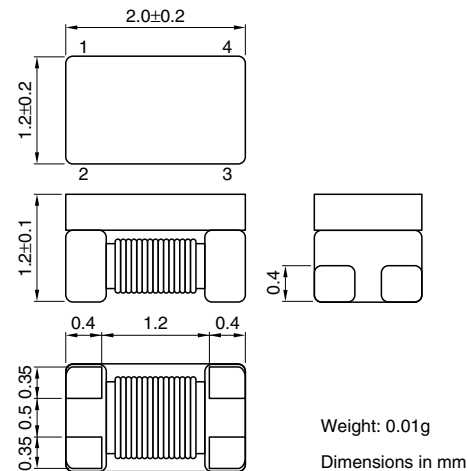
ATB	2012	-	500	11	-	T	□□□
(1)	(2)	(3)	(4)	(5)	(6)		

- (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

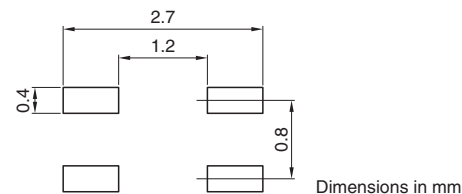
PACKAGING STYLE AND QUANTITIES

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

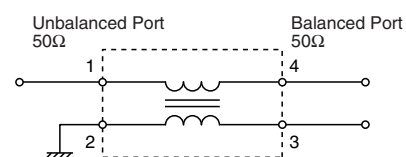
SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERN



CIRCUIT DIAGRAM

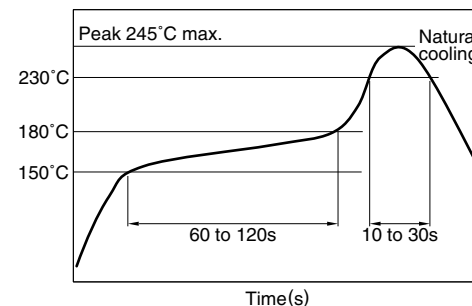


- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

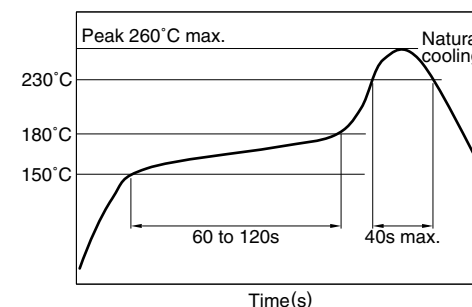
- All specifications are subject to change without notice.

RECOMMENDED SOLDERING CONDITIONS

RECOMMENDED TEMPERATURE PROFILE FOR LEAD-FREE SOLDER



REFLOW PROFILE FOR SOLDER HEAT RESISTANCE

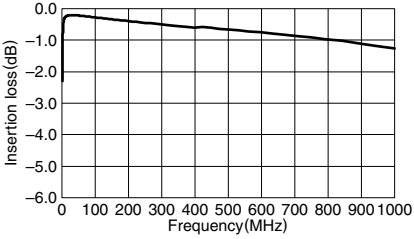


ELECTRICAL CHARACTERISTICS

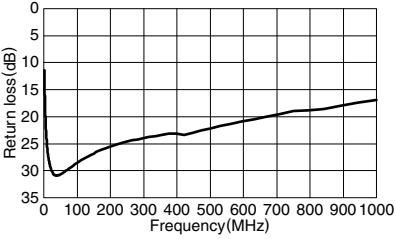
Part No.	Frequency range (MHz)	UB/B Impedance (Ω)	Insertion loss (dB)		CMRR min.	DC resistance (Ω)max.	Rated current (mA)	Rated voltage (V)	Insulation resistance (M Ω)	Withstanding voltage (V)
			typ.	max.						
ATB2012-50011-T□□□	40 to 860	50/50	1.0	2.5	20	1.0	200	20	10	125

FREQUENCY CHARACTERISTICS

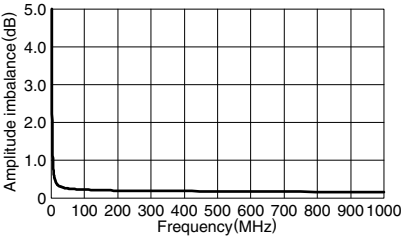
INSERTION LOSS



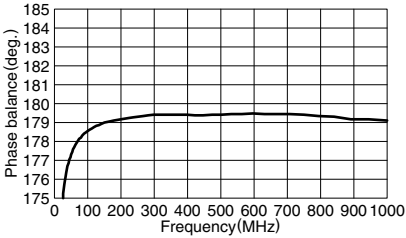
RETURN LOSS



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 ratio 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

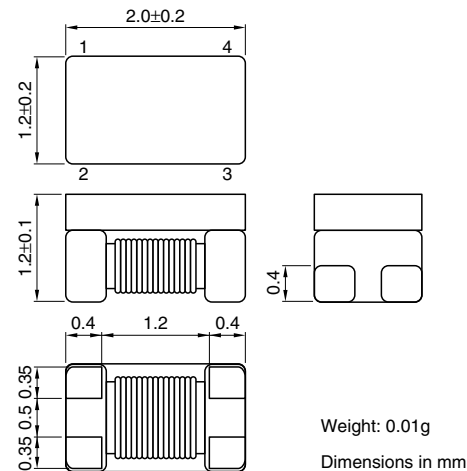
ATB	2012	-	750	11	-	T	□□□
(1)	(2)	(3)	(4)	(5)	(6)		

- (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

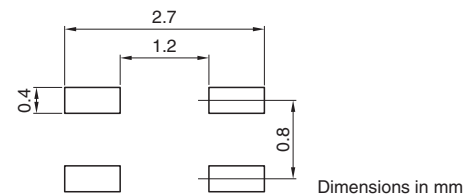
PACKAGING STYLE AND QUANTITIES

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

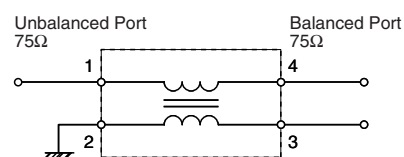
SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERN



CIRCUIT DIAGRAM

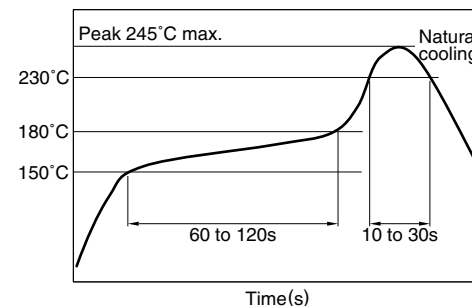


- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

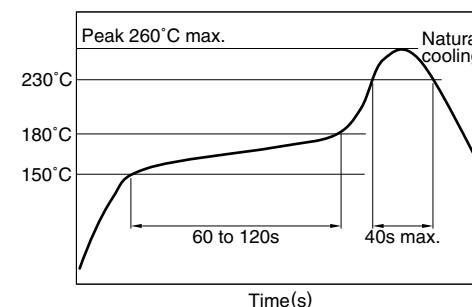
- All specifications are subject to change without notice.

RECOMMENDED SOLDERING CONDITIONS

RECOMMENDED TEMPERATURE PROFILE FOR LEAD-FREE SOLDER



REFLOW PROFILE FOR SOLDER HEAT RESISTANCE

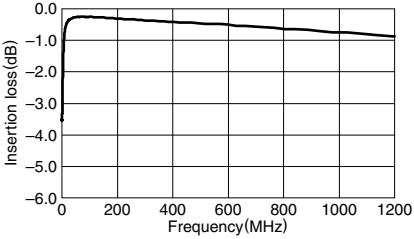


ELECTRICAL CHARACTERISTICS

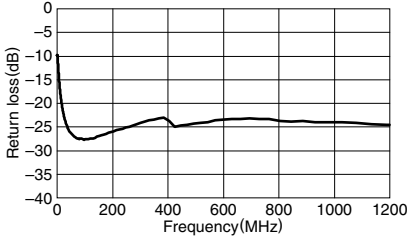
Part No.	Frequency range (MHz)	UB/B Impedance (Ω)	Insertion loss (dB) max.	CMRR min.	DC resistance (Ω)	Rated current (mA)	Rated voltage (V)	Insulation resistance (M Ω)	Withstanding voltage (V)
ATB2012-75011-T□□□	50 to 1200	75/75	1.2	20	0.7	280	20	10	125

FREQUENCY CHARACTERISTICS

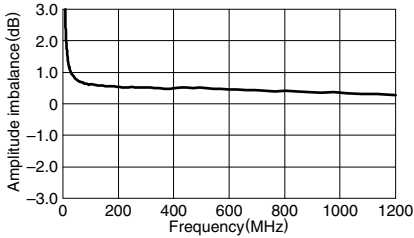
INSERTION LOSS



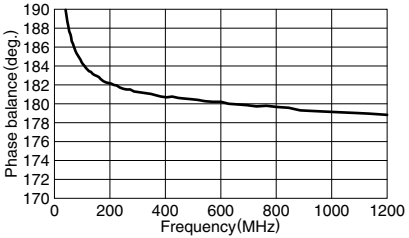
RETURN LOSS



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

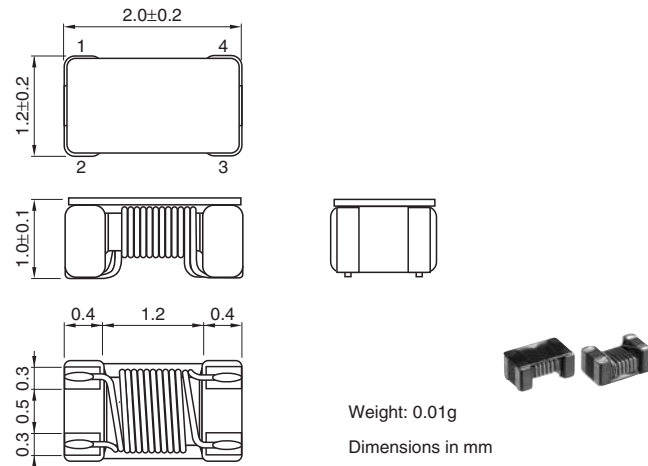
ATB	2012E	- 500	11	M	- T	□□
(1)	(2)	(3)	(4)	(5)	(6)	(7)

- (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

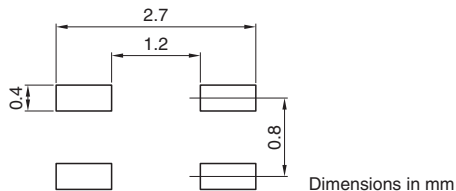
PACKAGING STYLE AND QUANTITIES

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

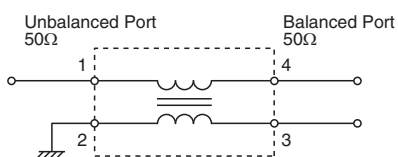
SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERN



CIRCUIT DIAGRAM

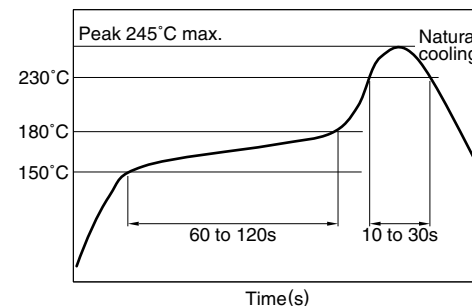


- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

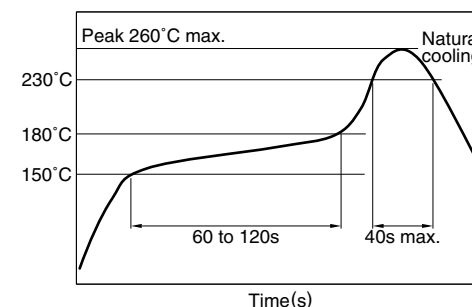
- All specifications are subject to change without notice.

RECOMMENDED SOLDERING CONDITIONS

RECOMMENDED TEMPERATURE PROFILE FOR LEAD-FREE SOLDER



REFLOW PROFILE FOR SOLDER HEAT RESISTANCE

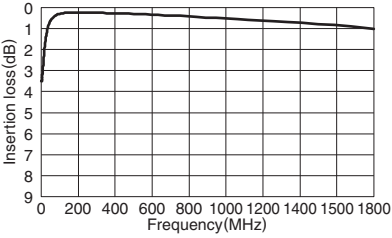


ELECTRICAL CHARACTERISTICS

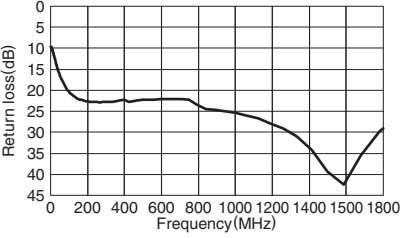
Part No.	Frequency range (MHz)	UB/B Impedance (Ω)	Insertion loss [1.8GHz] (dB)		CMRR min.	DC resistance (Ω)max.	Rated current (mA)	Rated voltage (V)	Insulation resistance (M Ω)	Withstanding voltage (V)
			typ.	max.						
ATB2012E-50011M-T□□	400 to 1800	50/50	1.0	2.2	15	0.5	150	20	10	125

FREQUENCY CHARACTERISTICS

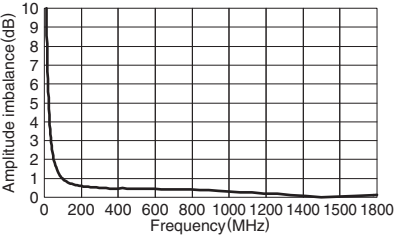
INSERTION LOSS



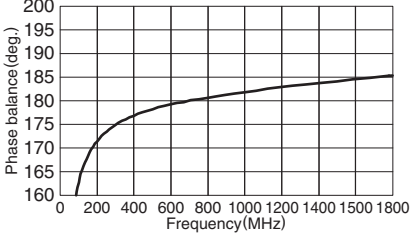
RETURN LOSS



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

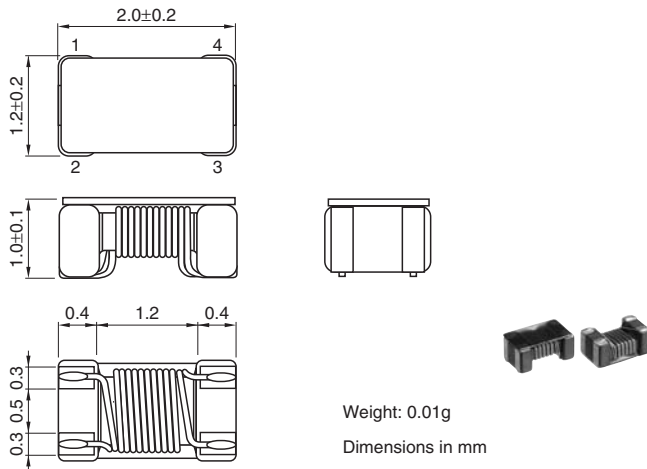
ATB	2012E	- 750	11	M	- T	
(1)	(2)	(3)	(4)	(5)	(6)	(7)

- (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

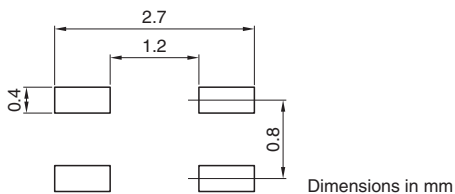
PACKAGING STYLE AND QUANTITIES

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

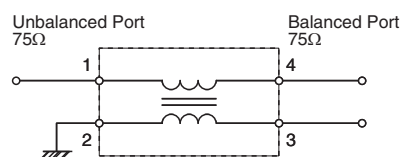
SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERN



CIRCUIT DIAGRAM

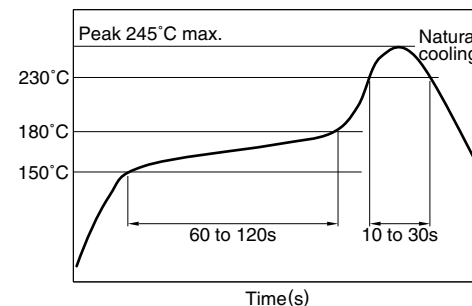


- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

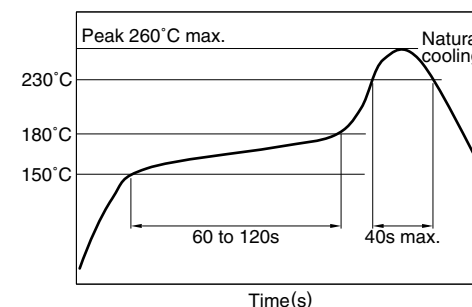
- All specifications are subject to change without notice.

RECOMMENDED SOLDERING CONDITIONS

RECOMMENDED TEMPERATURE PROFILE FOR LEAD-FREE SOLDER



REFLOW PROFILE FOR SOLDER HEAT RESISTANCE

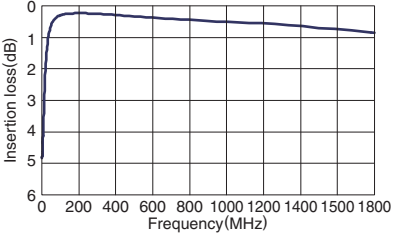


ELECTRICAL CHARACTERISTICS

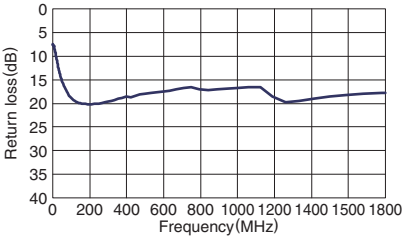
Part No.	Frequency range (MHz)	UB/B impedance (Ω)	Insertion loss [1.8GHz] (dB)		CMRR min.	DC resistance (Ω)max.	Rated current (mA)	Rated voltage (V)	Insulation resistance (M Ω)	Withstanding voltage (V)
			typ.	max.						
ATB2012E-75011M-T□□	400 to 1800	75/75	1.0	2	15	0.5	150	20	10	125

FREQUENCY CHARACTERISTICS

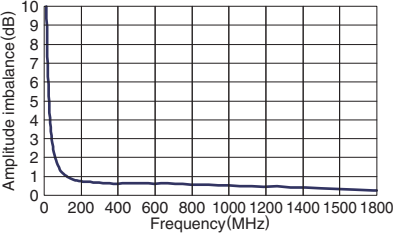
INSERTION LOSS



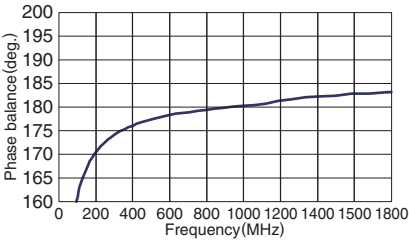
RETURN LOSS



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.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

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

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

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