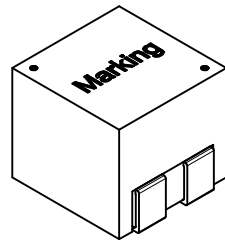
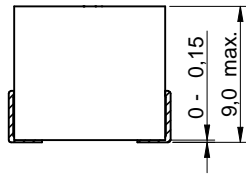
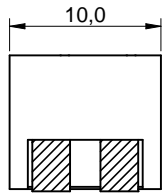
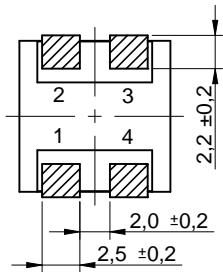


Dimensions: [mm]

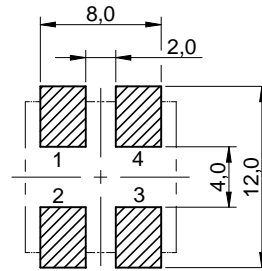


Scale - 2:1

Product Marking:

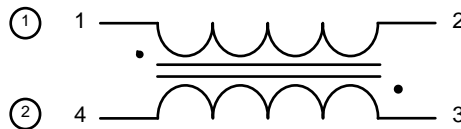
Start of Winding	•
Marking	047 (Inductance Code)

Recommended Land Pattern: [mm]



Scale - 3:1

Schematic:



Electrical Properties:

Properties	Test conditions		Value	Unit	Tol.
Inductance 1	100 kHz/ 100 mV	L_1	4.7	μH	$\pm 20\%$
Inductance 2	100 kHz/ 100 mV	L_2	4.7	μH	$\pm 20\%$
Rated Current 1	$\Delta T = 40 \text{ K}$	I_{R1}	5.9	A	max.
Rated Current 2	$\Delta T = 40 \text{ K}$	I_{R2}	5.9	A	max.
Saturation Current 1	$I_{\Delta L/LI} < 30 \%$	I_{SAT1}	24.2	A	typ.
Saturation Current 2	$I_{\Delta L/LI} < 30 \%$	I_{SAT2}	24.2	A	typ.
DC Resistance 1	@ 20 °C	R_{DC}	36	m Ω	typ.
DC Resistance 1	@ 20 °C	R_{DC}	40	m Ω	max.
DC Resistance 2	@ 20 °C	R_{DC}	36	m Ω	typ.
DC Resistance 2	@ 20 °C	R_{DC}	40	m Ω	max.
Self Resonant Frequency		f_{res}	17.5	MHz	typ.
Turns Ratio		n	1:1		
Rated Voltage		U_R	60	V	max.
Leakage Inductance		L_S	0.235	μH	typ.
Coupling Coefficient		K	0.97		typ.

General Information:

It is recommended that the temperature of the component does not exceed +125°C under worst case conditions

Ambient Temperature (referring to I_R)	-40 °C up to +85 °C
Operating Temperature	-40 °C up to +125 °C
Storage Temperature (in original packaging)	-20 °C up to +60 °C

Test conditions of Electrical Properties: +20°C, 33% RH if not specified differently

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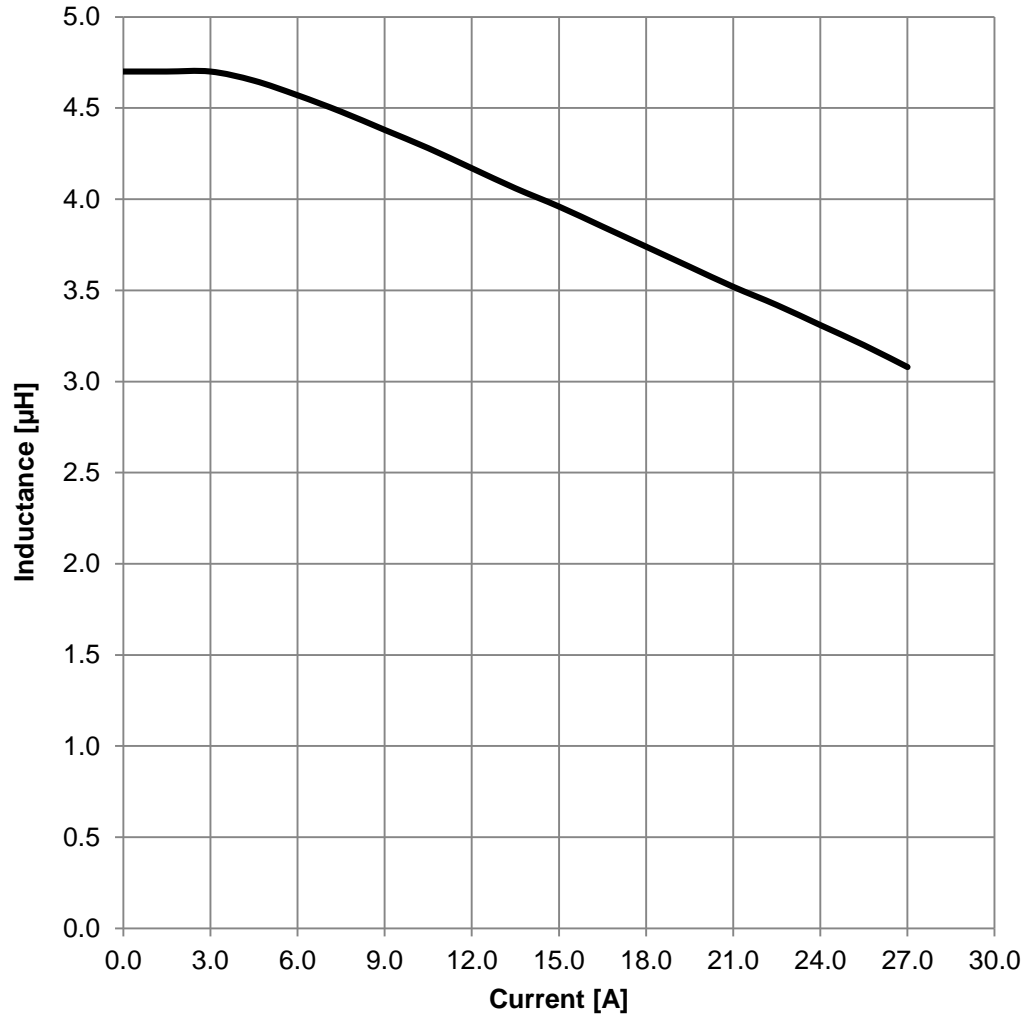
Max-Eyth-Str. 1
74638 Waldenburg
Germany
Tel. +49 (0) 79 42 945 - 0

www.we-online.com
eiSos@we-online.com

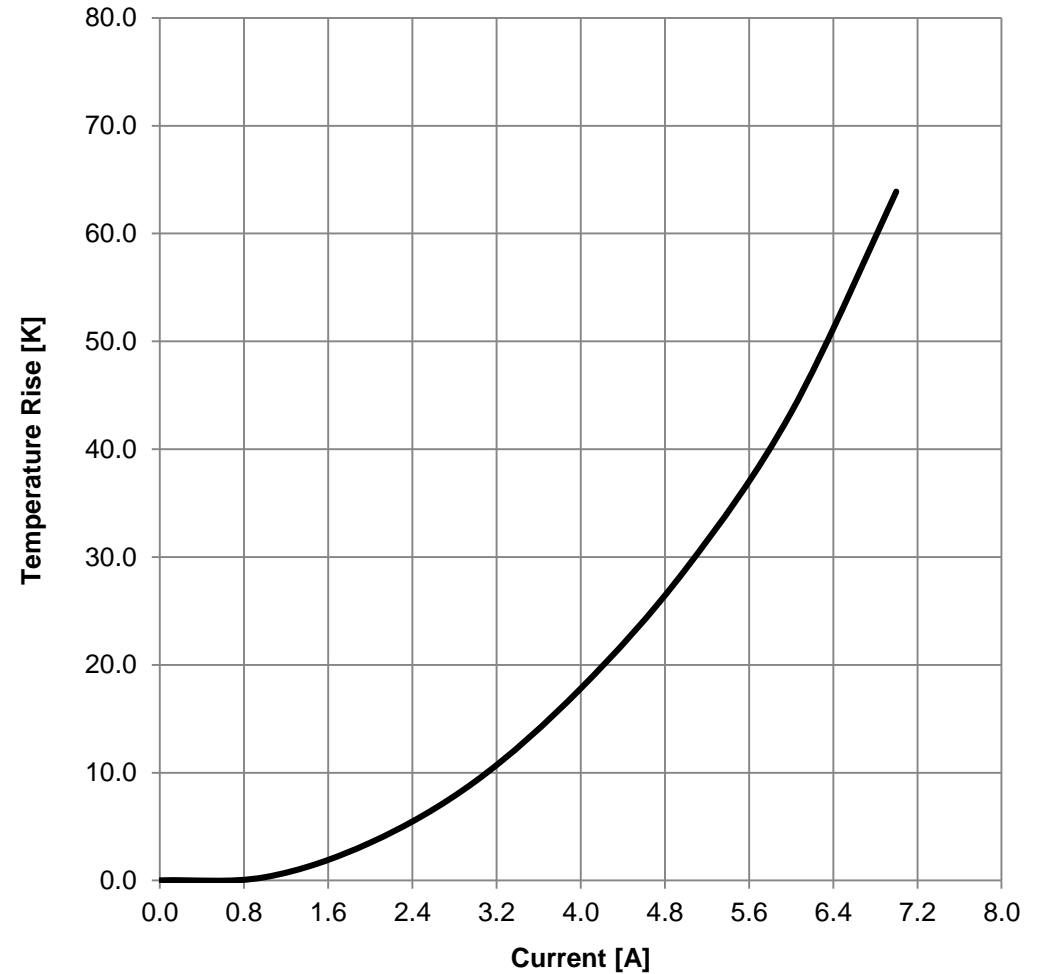


CREATED KaS	CHECKED ArPa	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD
DESCRIPTION WE-MCRI SMD Molded Coupled Inductor		ORDER CODE 7448990047	
SIZE 1090	REVISION 001.000	STATUS Valid	DATE (YYYY-MM-DD) 2017-07-25
BUSINESS UNIT eiSos		PAGE 1/5	

Typical Inductance vs. Current Characteristics:



Typical Temperature Rise vs. Current Characteristics:

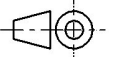


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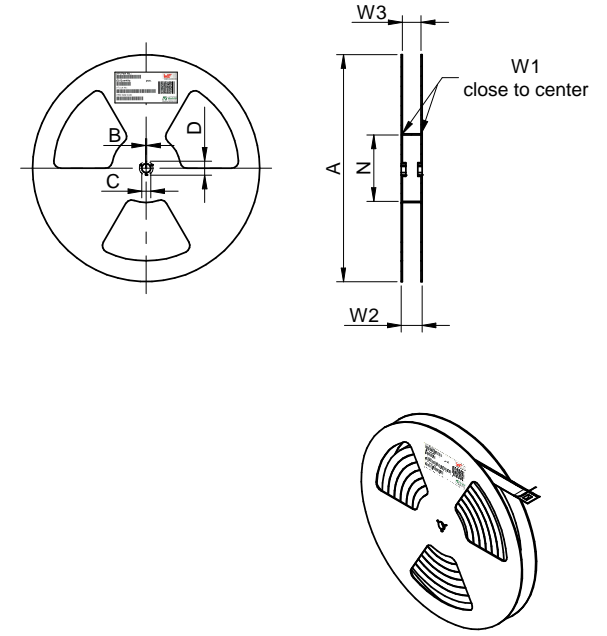
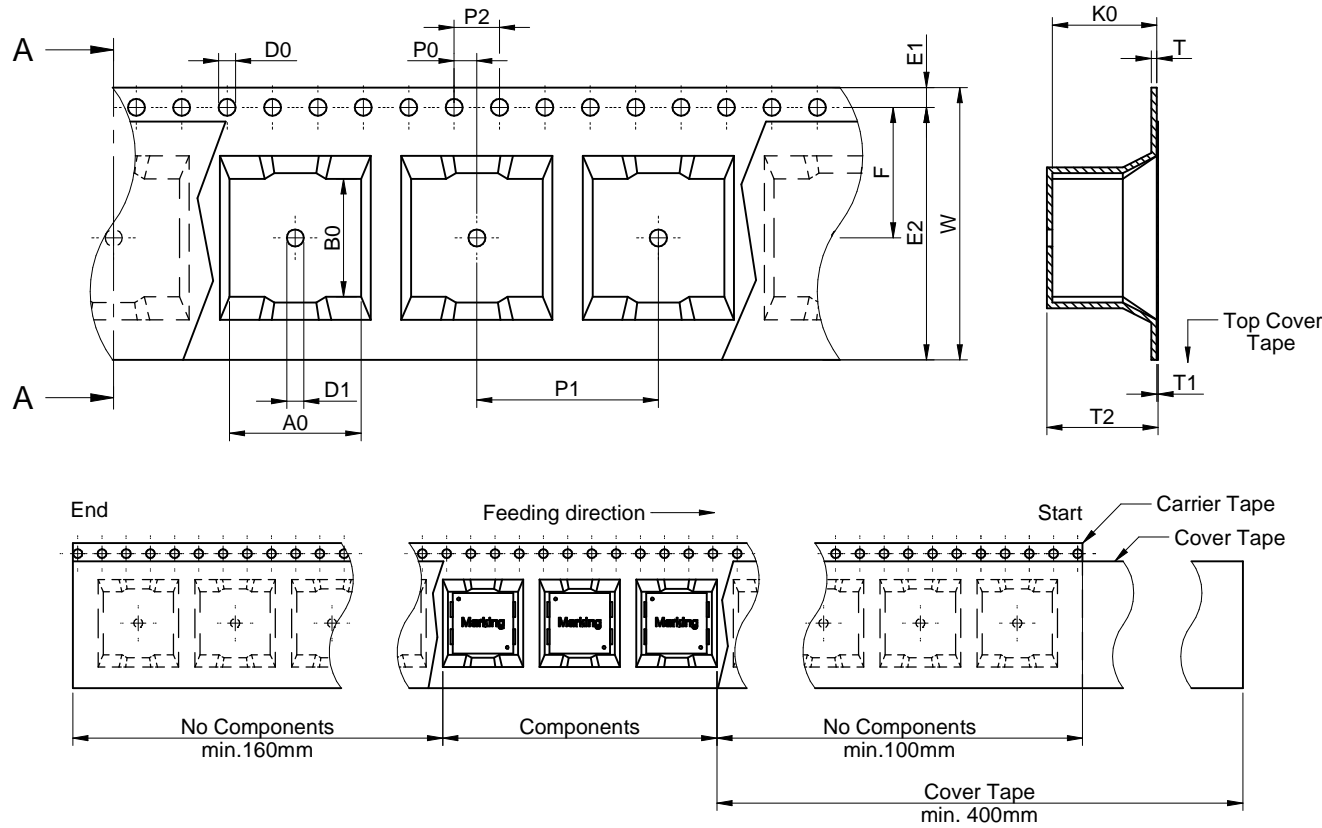
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CREATED KaS	CHECKED ArPa	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD 
DESCRIPTION WE-MCRI SMD Molded Coupled Inductor		ORDER CODE 7448990047	
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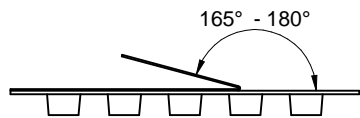
Packaging Specification - Tape and Reel: [mm]



packaging is referred to the international standard IEC 60286-3:2013

	A0	B0	W	T	T1	T2	K0	P0	P1	P2	D0	D1	E1	E2	F	Tape Type 2a	VPE / packaging unit
tolerance	typ.	typ.	+0.3/-0.1	ref.	max.	typ.	typ.	±0.1	±0.1	±0.1	+0.1/-0.0	min.	±0.1	min.	±0.1		pcs.
size	1090	11,60	10,40	24,00	0,50	0,10	9,70	9,40	4,00	16,00	2,00	1,50	1,50	1,75	22,25	11,50	Polystyrene 300

	A	B	C	D	N	W1	W2	W3	W3
Tolerance	± 2,0	min.	min.	min.	± 2,0	+ 2,0	max.	min.	max.
Tape width	24mm	330,00	1,50	12,80	20,20	60,00	24,40	30,40	23,90 27,40



	Pull-of force
Tape width 24 mm	0,1 N - 1,3 N

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CREATED	CHECKED	GENERAL TOLERANCE	PROJECTION METHOD
KaS	ArPa	DIN ISO 2768-1m	
DESCRIPTION		ORDER CODE	
WE-MCRI SMD Molded Coupled Inductor		7448990047	
SIZE	REVISION	STATUS	DATE (YYYY-MM-DD)
1090	001.000	Valid	2017-07-25
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Cautions and Warnings:

The following conditions apply to all goods within the product series of WE-MCRI of Würth Elektronik eiSos GmbH & Co. KG:

General:

The usage and operation of the product within ambient conditions, which probably alloy or harm the wire isolation, has to be avoided.

If the product is potted in customer applications, the potting material might shrink during and after hardening. The product is exposed to the pressure of the potting material with the effect that the core, wire and termination is possibly damaged by this pressure and so the electrical as well as the mechanical characteristics are endangered to be affected. After the potting material is cured, the core, wire and termination of the product have to be checked if any reduced electrical or mechanical functions or destructions have occurred.

The responsibility for the applicability of customer specific products and use in a particular customer design is always within the authority of the customer. All technical specifications for standard products do also apply to customer specific products.

Cleaning agents that are used to clean the customer application might damage or change the characteristics of the component, body, pins or termination.


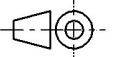
Direct mechanical impact to the product shall be prevented as the iron powder material of the core could flake or in the worst case it could break.

Product specific:

Follow all instructions mentioned in the data sheet, especially:

- The solder profile has to be complied with according to the technical reflow soldering specification, otherwise this will void the warranty.
- All products are supposed to be used before the end of the period of 12 months based on the product date code, if not a 100% solderability can't be ensured.
- Violation of the technical product specifications such as exceeding the nominal rated current will void the warranty.

The general and product specific cautions comply with the state of the scientific and technical knowledge and are believed to be accurate and reliable; however, no responsibility is assumed for inaccuracies or incompleteness.

Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com 	CREATED KaS	CHECKED ArPa	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD 
	DESCRIPTION WE-MCRI SMD Molded Coupled Inductor			ORDER CODE 7448990047
	SIZE 1090	REVISION 001.000	STATUS Valid	DATE (YYYY-MM-DD) 2017-07-25
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Important Notes

The following conditions apply to all goods within the product range of Würth Elektronik eiSos GmbH & Co. KG:

1. General Customer Responsibility

Some goods within the product range of Würth Elektronik eiSos GmbH & Co. KG contain statements regarding general suitability for certain application areas. These statements about suitability are based on our knowledge and experience of typical requirements concerning the areas, serve as general guidance and cannot be estimated as binding statements about the suitability for a customer application. The responsibility for the applicability and use in a particular customer design is always solely within the authority of the customer. Due to this fact it is up to the customer to evaluate, where appropriate to investigate and decide whether the device with the specific product characteristics described in the product specification is valid and suitable for the respective customer application or not.

2. Customer Responsibility related to Specific, in particular Safety-Relevant Applications

It has to be clearly pointed out that the possibility of a malfunction of electronic components or failure before the end of the usual lifetime cannot be completely eliminated in the current state of the art, even if the products are operated within the range of the specifications. In certain customer applications requiring a very high level of safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health it must be ensured by most advanced technological aid of suitable design of the customer application that no injury or damage is caused to third parties in the event of malfunction or failure of an electronic component. Therefore, customer is cautioned to verify that data sheets are current before placing orders. The current data sheets can be downloaded at www.we-online.com.

3. Best Care and Attention

Any product-specific notes, cautions and warnings must be strictly observed. Any disregard will result in the loss of warranty.

4. Customer Support for Product Specifications

Some products within the product range may contain substances which are subject to restrictions in certain jurisdictions in order to serve specific technical requirements. Necessary information is available on request. In this case the field sales engineer or the internal sales person in charge should be contacted who will be happy to support in this matter.

5. Product R&D

Due to constant product improvement product specifications may change from time to time. As a standard reporting procedure of the Product Change Notification (PCN) according to the JEDEC-Standard inform about minor and major changes. In case of further queries regarding the PCN, the field sales engineer or the internal sales person in charge should be contacted. The basic responsibility of the customer as per Section 1 and 2 remains unaffected.

6. Product Life Cycle

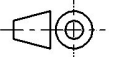
Due to technical progress and economical evaluation we also reserve the right to discontinue production and delivery of products. As a standard reporting procedure of the Product Termination Notification (PTN) according to the JEDEC-Standard we will inform at an early stage about inevitable product discontinuance. According to this we cannot guarantee that all products within our product range will always be available. Therefore it needs to be verified with the field sales engineer or the internal sales person in charge about the current product availability expectancy before or when the product for application design-in disposal is considered. The approach named above does not apply in the case of individual agreements deviating from the foregoing for customer-specific products.

7. Property Rights

All the rights for contractual products produced by Würth Elektronik eiSos GmbH & Co. KG on the basis of ideas, development contracts as well as models or templates that are subject to copyright, patent or commercial protection supplied to the customer will remain with Würth Elektronik eiSos GmbH & Co. KG. Würth Elektronik eiSos GmbH & Co. KG does not warrant or represent that any license, either expressed or implied, is granted under any patent right, copyright, mask work right, or other intellectual property right relating to any combination, application, or process in which Würth Elektronik eiSos GmbH & Co. KG components or services are used.

8. General Terms and Conditions

Unless otherwise agreed in individual contracts, all orders are subject to the current version of the "General Terms and Conditions of Würth Elektronik eiSos Group", last version available at www.we-online.com.

Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com	CREATED KaS	CHECKED ArPa	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD 	
	DESCRIPTION WE-MCRI SMD Molded Coupled Inductor			ORDER CODE 7448990047	
	SIZE 1090	REVISION 001.000	STATUS Valid	DATE (YYYY-MM-DD) 2017-07-25	BUSINESS UNIT eiSos

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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