731

Features

- ☐ 10A general purpose Power Relay.
- ☐ Both available 0.25 and 0.187 terminals.
- ☐ SPDT, DPDT, TPDT contact configurations.
- ☐ AC & DC coils are both available.
- ☐ Optional for anti-rotation tab, tapped core, indicator lamp & push-to-test button, flanged cover.
- ☐ Comply with RoHS-Directive 2002/95/EC.

Type List

◆731

Terminal style	Contact form	Enclosure style				
		Open type	Dust cover	Ears on cover	Antirotation -tab	Ears on top
Quick terminal	1A (SPNO)	731-SPNO	731-SPNO-C	731-SPNO-C1	731-SPNO-C2	731-SPNO-C3
	1C (SPDT)	731-SPDT	731-SPDT-C	731-SPDT-C1	731-SPDT-C2	731-SPDT-C3
	2A (DPNO)	731-DPNO	731-DPNO-C	731-DPNO-C1	731-DPNO-C2	731-DPNO-C3
	2C (DPDT)	731-DPDT	731-DPDT-C	731-DPDT-C1	731-DPDT-C2	731-DPDT-C3
	3A (TPNO)	731-TPNO	731-TPNO-C	731-TPNO-C1	731-TPNO-C2	731-TPNO-C3
	3C (TPDT)	731-TPDT	731-TPDT-C	731-TPDT-C1	731-TPDT-C2	731-TPDT-C3

◆731H

Terminal style	Contact form	Enclosure style		
		Dust cover	Ears on cover	Ears on top
Quick terminal	1A (SPNO)	731H-SPNO-C	731H-SPNO-C1	731H-SPNO-C3
	1C (SPDT)	731H-SPDT-C	731H-SPDT-C1	731H-SPDT-C3
	2A (DPNO)	731H-DPNO-C	731H-DPNO-C1	731H-DPNO-C3
	2C (DPDT)	731H-DPDT-C	731H-DPDT-C1	731H-DPDT-C3
	3A (TPNO)	731H-TPNO-C	731H-TPNO-C1	731H-TPNO-C3
	3C (TPDT)	731H-TPDT-C	731H-TPDT-C1	731H-TPDT-C3

Ordering Information

731 ☐ - TPDT - ☐ ☐ - ☐

1 2 3 4 5 6

1. 731 -- Basic series designation

2. Blank -- Standard type
   H -- High power type

3. SPDT -- Single pole double throw
   SPNO -- Single pole normally open
   SPNC -- Single pole normally closed
   DPDT -- Double pole double throw
   DPNO -- Double pole normally open
   DPNC -- Double pole normally closed
   TPDT -- Three pole double throw
   TPNO -- Three pole normally open
   TPNC -- Three pole normally closed

4. Blank -- Open type without frame tab
   C -- With cover
   C1 -- With mounting ears on cover
   C2 -- With accessible mounting hole with anti-rotation tab
   C3 -- Mounting Ears on top of cover
   X -- Open type with frame tab

5. Blank -- No special feature
   M -- With manual operator
   T -- Printed circuit board terminals
   L -- Pilot lamp

6. Blank -- Standard type
   F -- Class F

Contact Rating

	731	731H 1P、2P	731H 3P
Resistive load	10A 28VDC 10A 240VAC	20A 300VAC 25A 277VAC	16A 300VAC 20A 277VAC

Coil Rating (DC)

Rated voltage (V)	Rated current ±10 % at 23°C (mA)	Coil resistance ±10 % at 23°C (Ω)	Max. continuous voltage at 70°C	Pick up voltage(Max) at 23°C	Drop out voltage(Min) at 23°C	Power consumption at rated voltage
6	188	32	140 % of rated voltage	75 % of rated voltage	10 % of rated voltage	approx. 1.2W
12	100	120				
24	51	472				
48	27	1800				
110	11	10000				
120	12	10000				

Coil Rating (AC)

Rated voltage (V)		Coil resistance ±10 % at 23°C (Ω)	Max. continuous voltage at 70°C	Pick up voltage(Max) at 23°C	Drop out voltage(Min) at 23°C	Power consumption at rated voltage
SP DP	12	21	110 % of rated voltage	85 % of rated voltage	30 % of rated voltage	approx. 2.0VA
	24	85				
	110	1700				
	115	1700				
	120	2250				
	220	7200				
	230	7200				
	240	9110				

Coil Rating (AC)

Rated voltage (V)		Coil resistance ±10 % at 23°C (Ω)	Max. continuous voltage at 70°C	Pick up voltage(Max) at 23°C	Drop out voltage(Min) at 23°C	Power consumption at rated voltage
TP	12	18	110 % of rated voltage	85 % of rated voltage	30 % of rated voltage	approx. 2.7VA
	24	72				
	110	1300				
	115	1300				
	120	1700				
	220	5600				
	230	5600				
	240	7200				

Specification

Contact material	AgSnO alloy	
Contact resistance (1)	50mΩ Max. (for 731) ; 100mΩ Max. (for 731H) (1A/6VDC by 4 pipes mΩ meter)	
Operate time (1)	20 ms Max.	
Release time (1)	20 ms Max.	
Insulation resistance (1)	1000 MΩ Min. (DC 500V)	
Dielectric strength (1)	Between open contact	: AC 500V , 50/60Hz 1 min. (for 731) : AC 1000V , 50/60Hz 1 min. (for 731H)
	Between contact and coil	: AC 1500V , 50/60Hz 1 min. (for 731) : AC 2500V , 50/60Hz 1 min. (for 731H)
	Between contact circuits	: AC 1500V , 50/60Hz 1 min. (for 731) : AC 2500V , 50/60Hz 1 min. (for 731H)
Vibration resistance	Operating extremes	10～55Hz , amplitude 1.0 mm
	Damage limits	10～55Hz , amplitude 1.5 mm
Shock resistance	Operating extremes	10G
	Damage limits	100G
Life expectancy	Mechanical	10,000,000 operations (frequency 18,000 ops./hr)
	Electrical	100,000 operations (frequency 1,200 ops./hr) (for 731) 50,000 operations (frequency 360 ops./hr) (for 731H)
Operating ambient temperature	-45～+70°C (no freezing) (for 731)	
	AC coil : -45～+55°C (no freezing) DC coil : -45～+65°C (no freezing) (for 731H)	
Weight	Approx. 79.2 g	

Note： (1) initial value.

Safety Approval

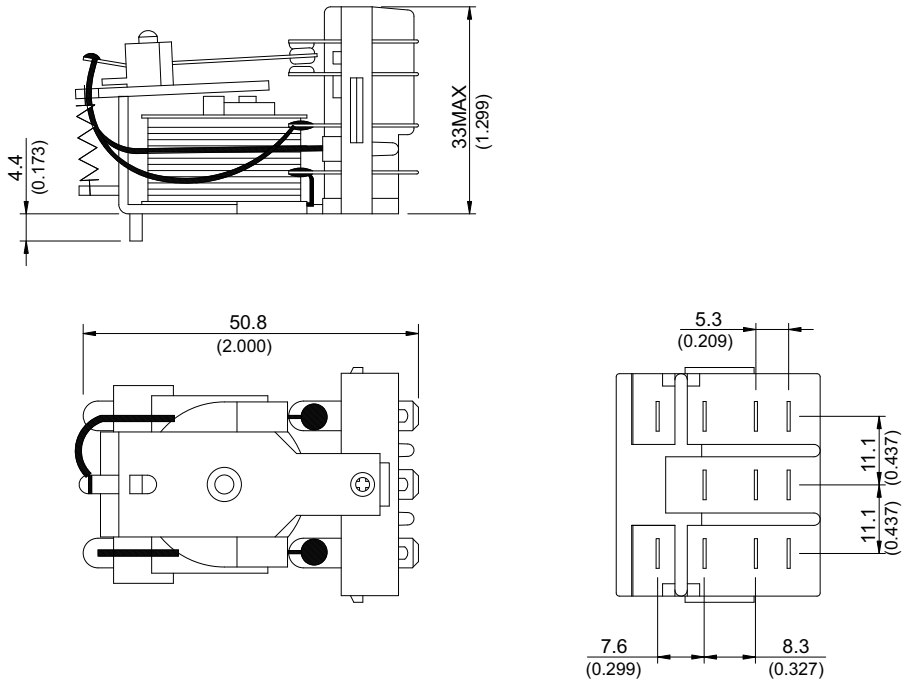
Certified	731			731H
	UL	CSA	FIMKO	UL / CUL
File No.	E88991	1663800	23797	E88991

Safety Approval Rating

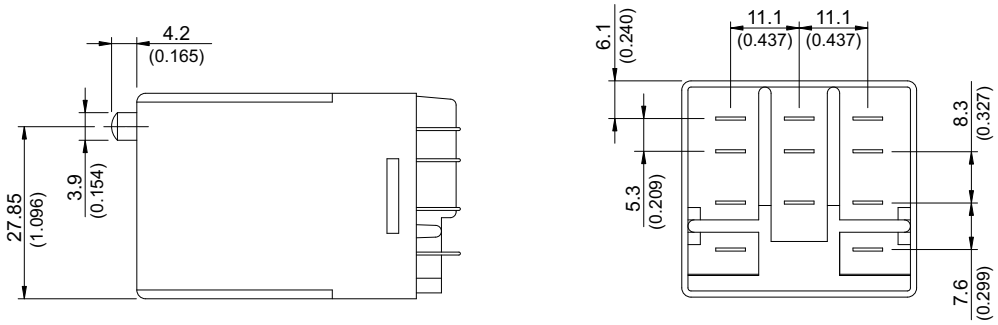
731		731H 1P、2P	731H 3P
UL、CSA	FIMKO	UL / CUL	
10A 240VAC	10A 250VAC	20A 300VAC	16A 300VAC
10A 28VDC		25A 277VAC	20A 277VAC
1/3HP 120VAC		1.5HP 240VAC	1.5HP 240VAC
1/2HP 240VAC		1HP 120VAC	1HP 120VAC

Outline Dimensions

◆731 OPEN



◆731 M



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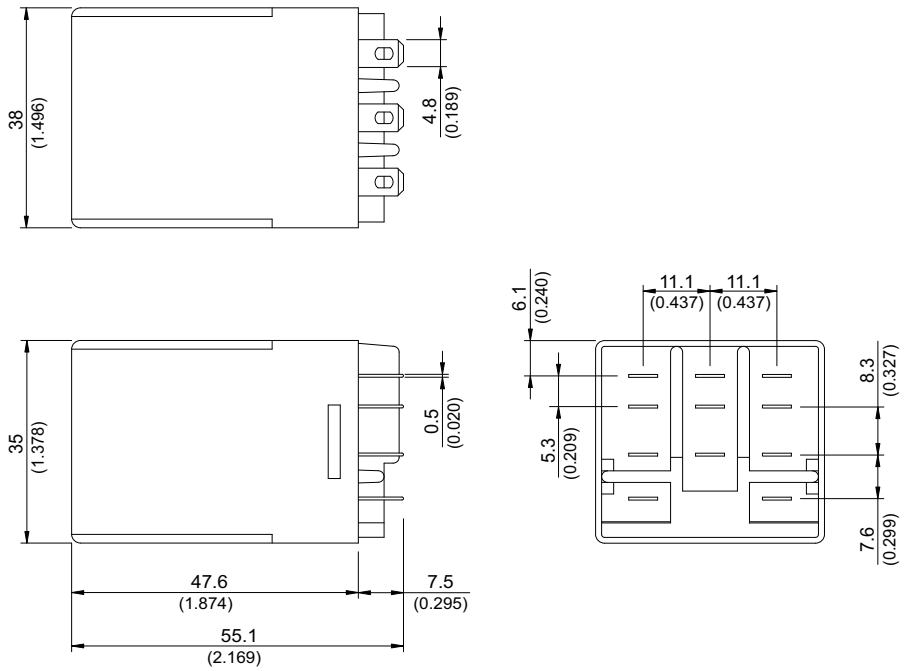
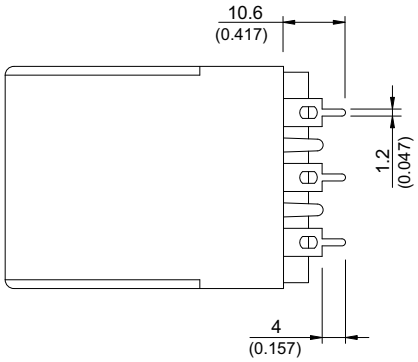


◆731 T



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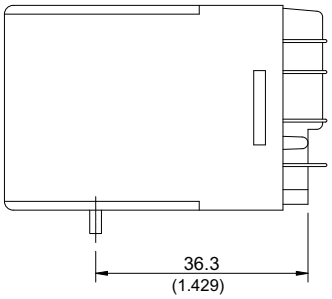

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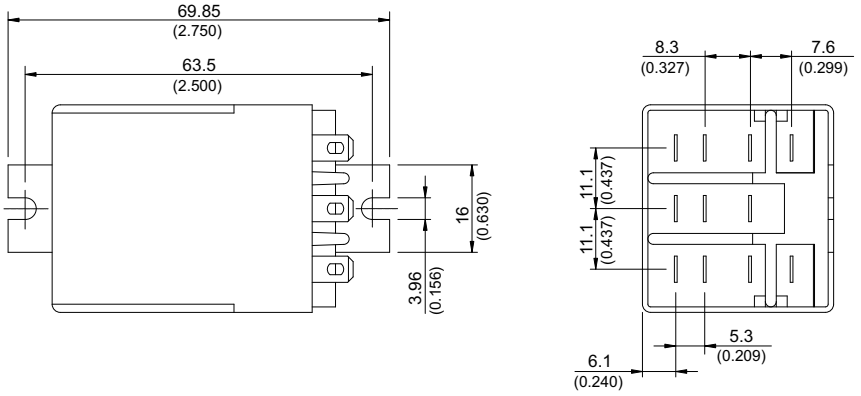

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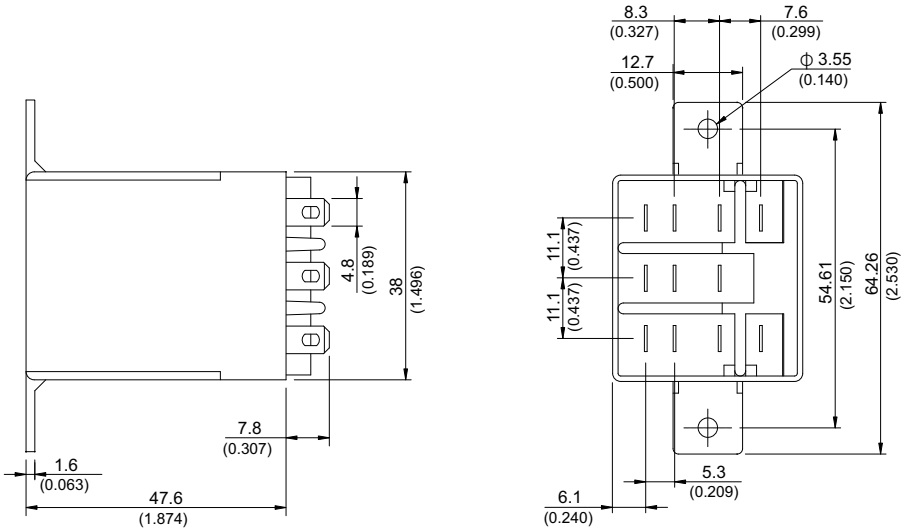
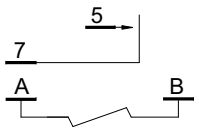


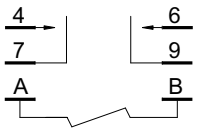
Wiring Diagram

BOTTOM VIEW

SPNO



DPNO



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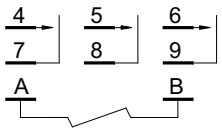
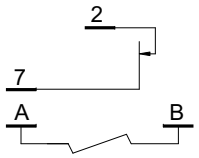
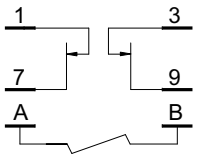


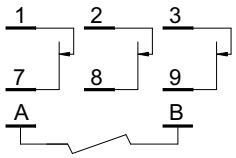
SPNC



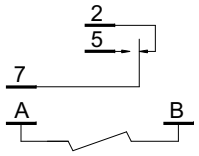
DPNC



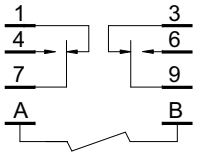
TPNC



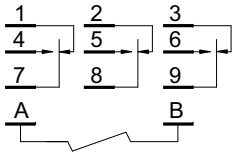
SPDT



DPDT



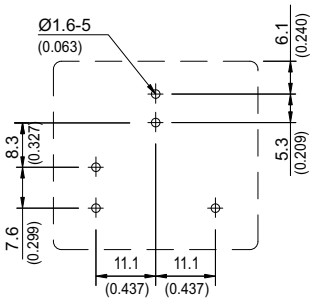
TPDT



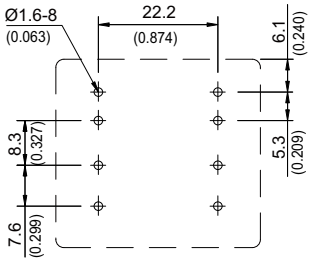
PC Board Layout

BOTTOM VIEW

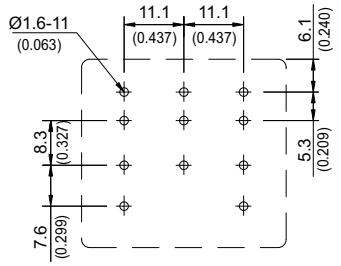
1P



2P

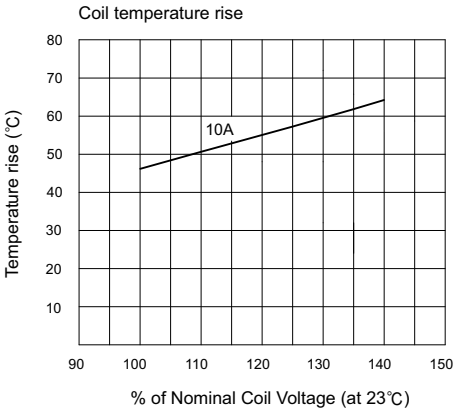


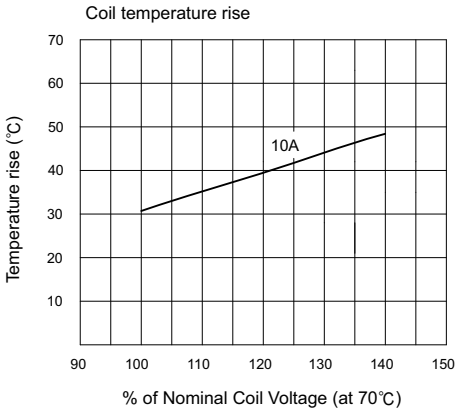
3P

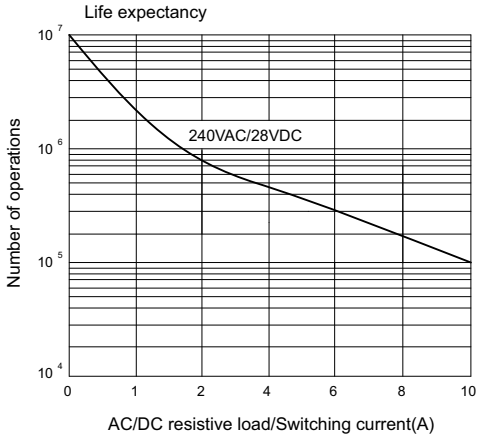


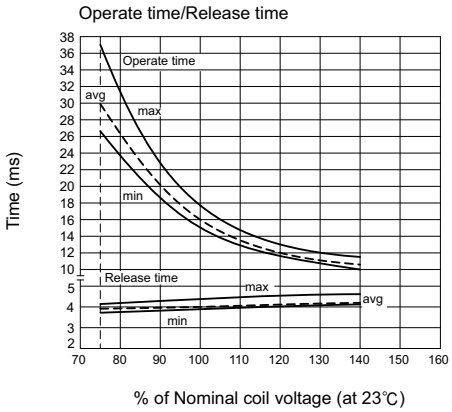
Engineering Data

◆731

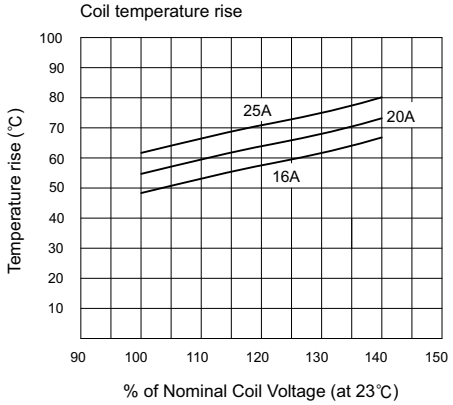


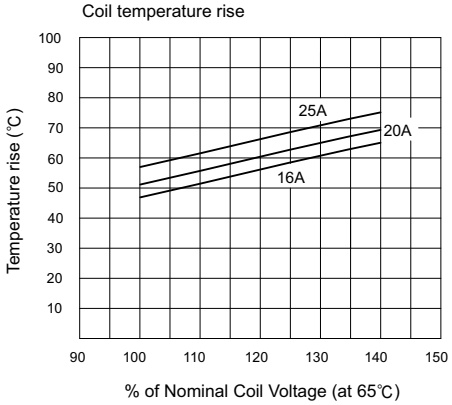




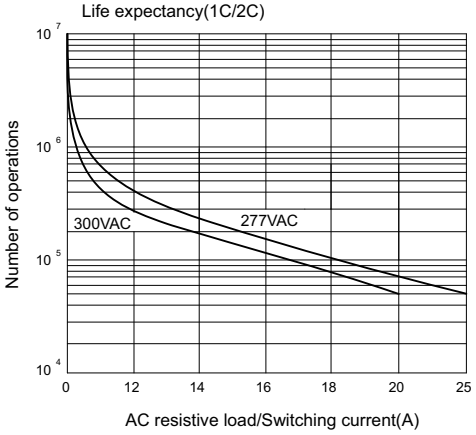


◆731 H

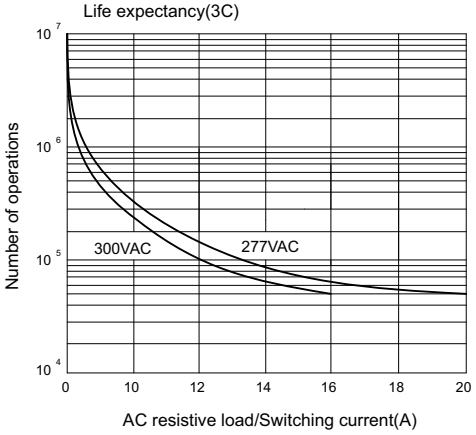




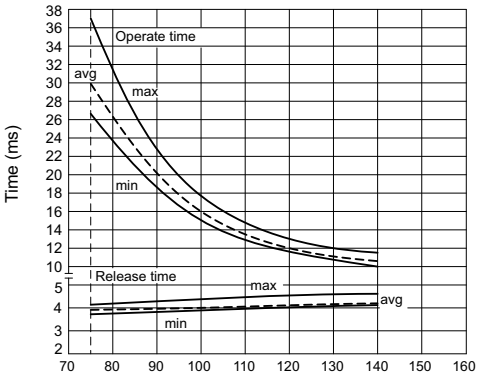
Life expectancy(1C/2C)



Life expectancy(3C)



Operate time/Release time



—— All specifications subject to change. Please contact Song Chuan for update. ——

OCEAN CHIPS
Океан Электроники
Поставка электронных компонентов

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**».

AVIC 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).

FORSTAR®

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