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

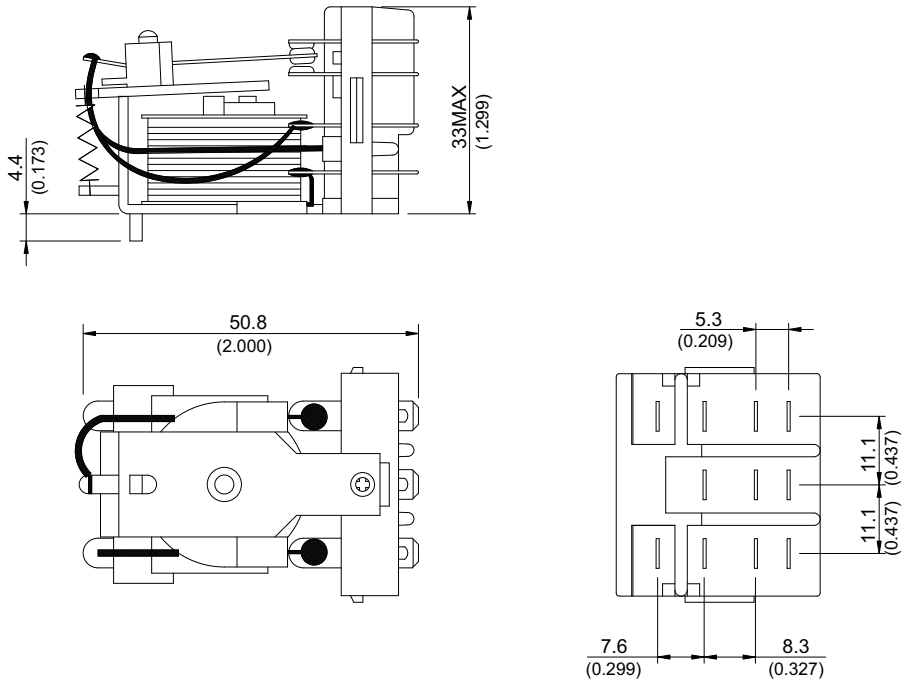
Certified	731			731H
	UL	CSA	FIMKO	UL / CUL
File No.	E88991	1663800	23797	E88991

Safety Approval Rating

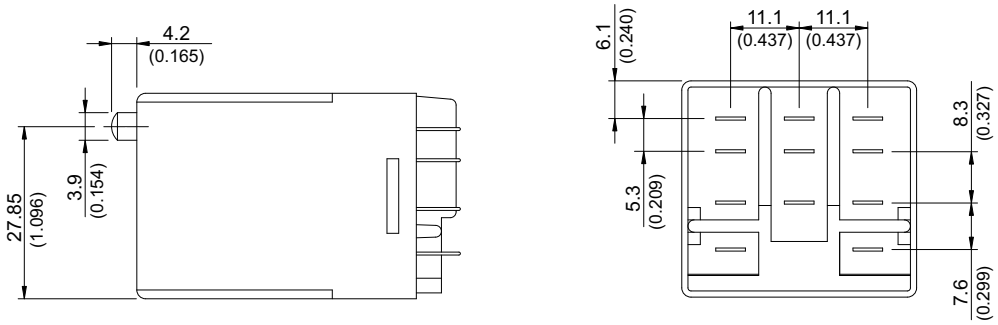
731		731H 1P、2P	731H 3P
UL、CSA	FIMKO	UL / CUL	
10A 240VAC	10A 250VAC	20A 300VAC	16A 300VAC
10A 28VDC		25A 277VAC	20A 277VAC
1/3HP 120VAC		1.5HP 240VAC	1.5HP 240VAC
1/2HP 240VAC		1HP 120VAC	1HP 120VAC

Outline Dimensions

◆731 OPEN



◆731 M



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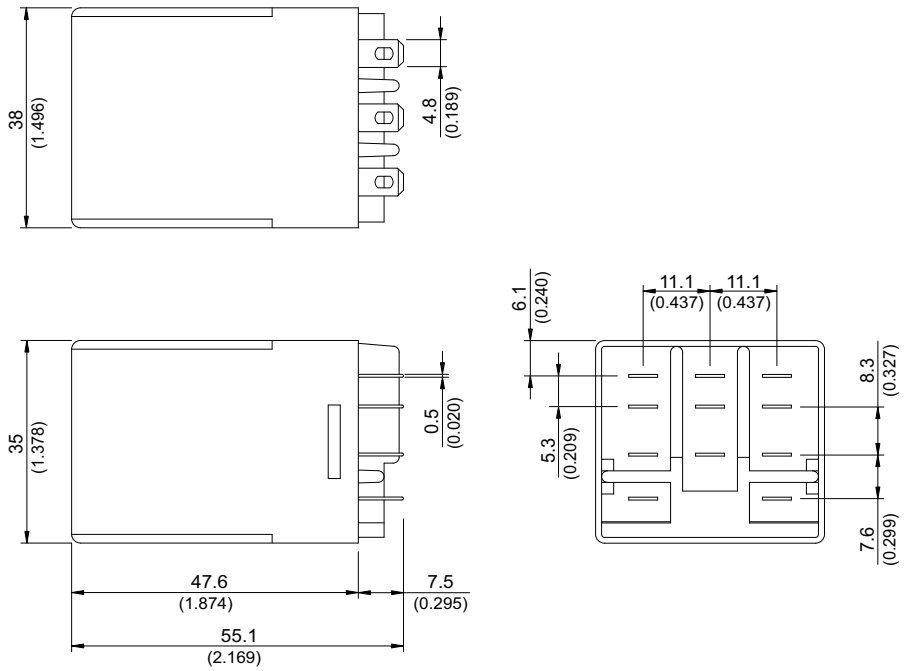

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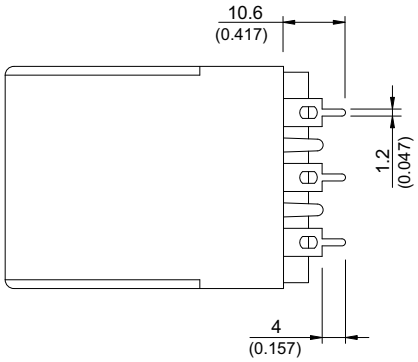

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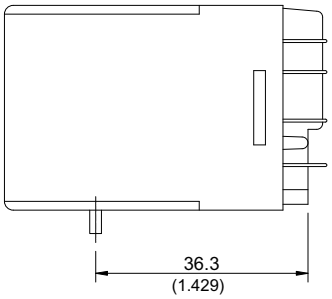

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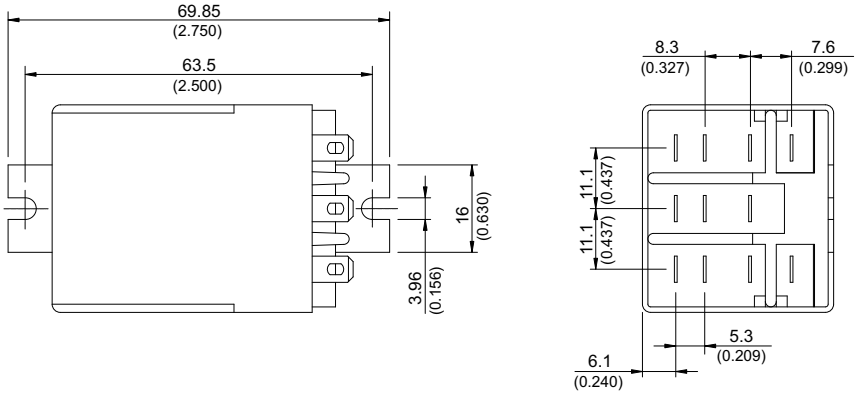

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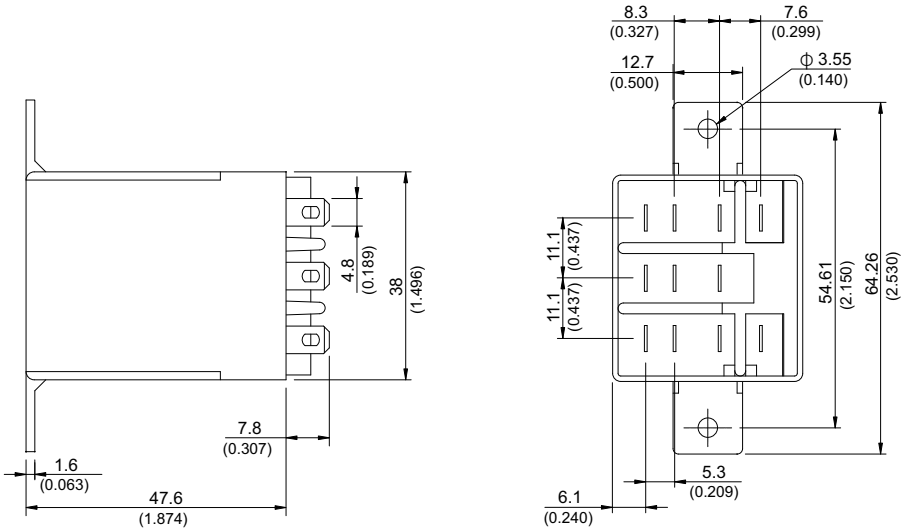
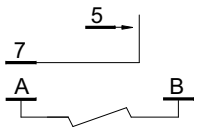


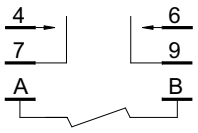
Wiring Diagram

BOTTOM VIEW

SPNO



DPNO



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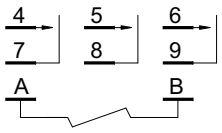
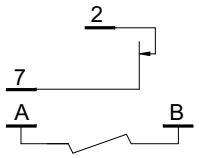
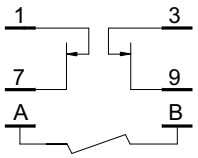


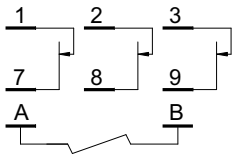
SPNC



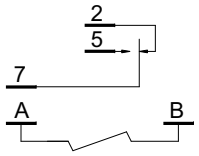
DPNC



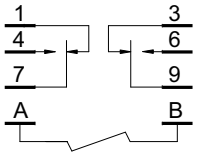
TPNC



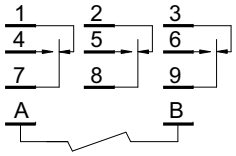
SPDT



DPDT



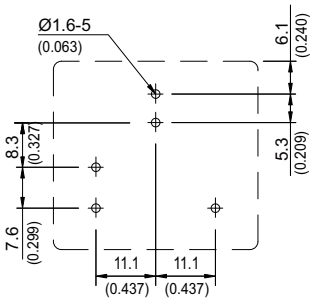
TPDT



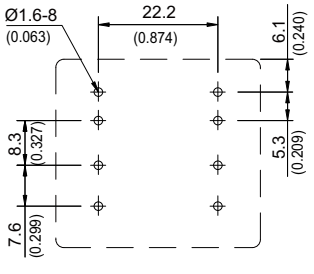
PC Board Layout

BOTTOM VIEW

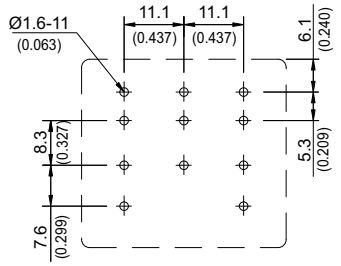
1P



2P

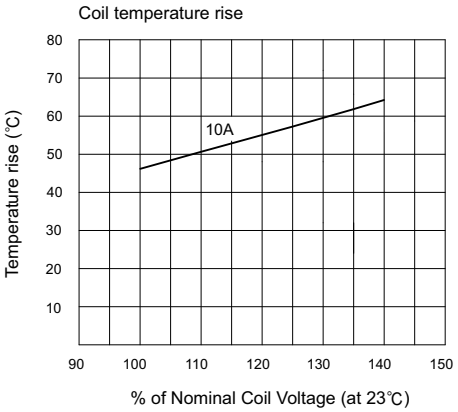


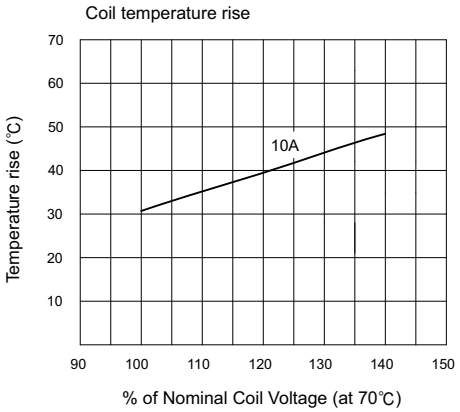
3P

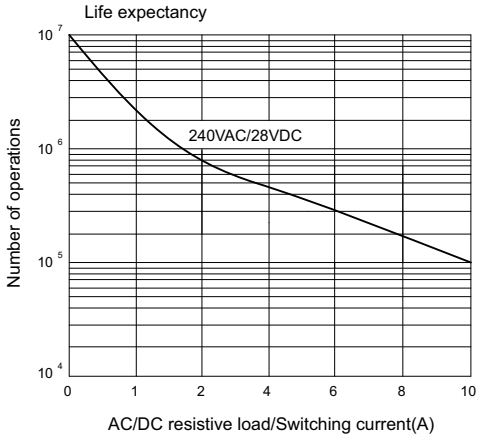


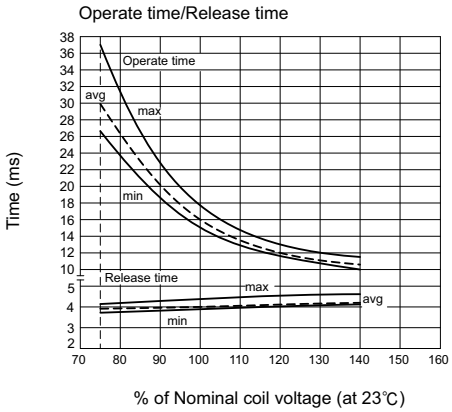
Engineering Data

◆731

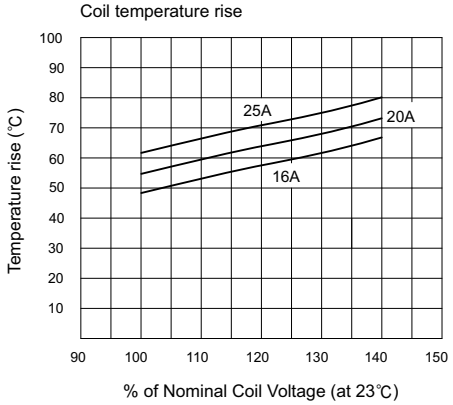


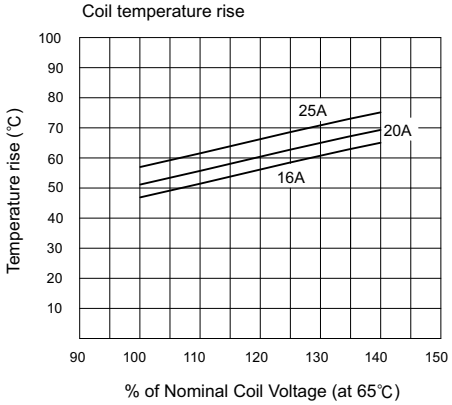




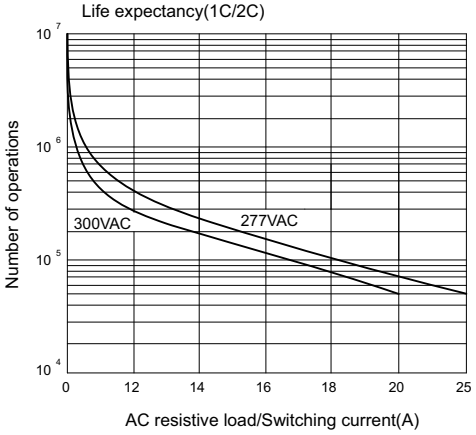


◆731 H

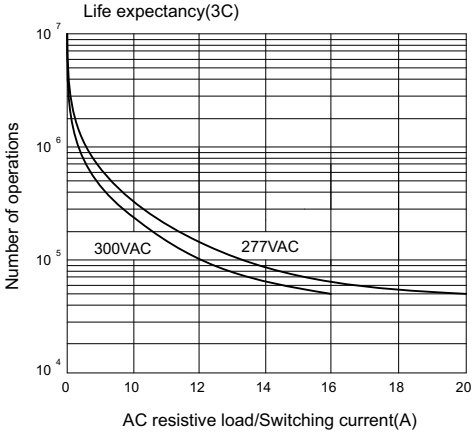




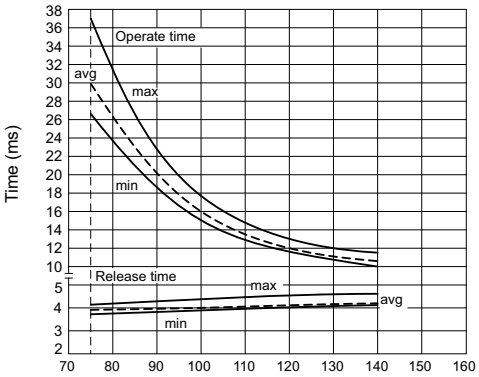
Life expectancy(1C/2C)



Life expectancy(3C)



Operate time/Release time



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

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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