#### Features

CONSHIP

2 pole relay suitable for signal circuit. High sensitive polarized relay. 100mW pick-up power. (200mW Electric power consumption) 150mW Electric power consumption available. High reliability and long life. 1 x 10<sup>8</sup>(mechanical life), 3 x 10<sup>5</sup>(2A 30VDC electrical life) High breakdown voltage. 1,500VAC Between coil and contact. 1,000VAC Between open contacts. Gold-clad Silver palladium contact available, too. Sealed construction. Approved by UL / C-UL



|深圳市泰科讯数码技术有限公司

SHENZHEN TYCOONSHIP DIGITAL TECHNOLOGY CO., LTD.

Actual size

# Applications

Switch board, Facsimile, Telephones Audio equipment, Industrial machines

UL / C-UL Rating 2A 30VDC , 1A120VAC (UL/C-UL File No.E128155)

## Model Number

			J-Q-Q
Nil	: Single side stable		
$\mathbf{L}$	: 2 coil latching		
Κ	: 1 coil latching		
Coil vo	oltage(3,5,6,9,12,24,48VDC)		
	~		
Nil	: Standard type	:400mW or 3	360mW
$\mathbf{S}$	: High sensitive type	:200mW or 1	80mW
U	: Ultra high sensitive type	:150mW(only	y single type)

Products Line (Single side stable , Standard type)(at 20 degree Celsius)

Model number	Nominal Voltage (VDC)	Pick-up voltage (VDC)	Drop-out voltage (VDC)	Coil resistance (ohm)	Nominal operating current (mA)	Electric power consumption (mW)	Max .allowable voltage (VDC)
RSB-3	3		10% Min .of nominal voltage	22.5	133.3		4.6
RSB-5	5			62.5	80.0	400	7.7
RSB-6	6	70% Max .of		90	66.7		9.3
RSB-9	9	nominal		203	44.3		14.0
<b>RSB-12</b>	12	voltage		360	33.3		18.7
RSB-24	24			1,440	16.7		37.4
<b>RSB-48</b>	48			5,760	8.3		74.8

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Products Line (Single side stable, High sensitive type)(at 20 degree Celsius)

Model number	Nominal Voltage (VDC)	Pick-up voltage (VDC)	Drop-out voltage (VDC)	Coil resistance (ohm)	Nominal operating current (mA)	Electric power consumption (mW)	Max .allowable voltage (VDC)
RSB-3-S	3		10% Min .of nominal voltage	45	66.7		5.9
RSB-5-S	5	70%		125	40.0	200	9.8
RSB-6-S	6	70% Max .of		180	33.3		11.7
RSB-9-S	9	nominal		406	22.2		17.7
RSB-12-S	12	voltage		720	16.6		23.5
RSB-24-S	24			2,880	8.3		47.1
RSB-48-S	48			11,520	4.2		94.3

#### Products Line (Single side stable, Ultra high sensitive type)(at 20 degree Celsius)

Model number	Nominal Voltage (VDC)	Pick-up voltage (VDC)	Drop-out voltage (VDC)	Coil resistance (ohm)	Nominal operating current (mA)	Electric power consumption (mW)	Max .allowable voltage (VDC)
RSB-3-U	3			60	50.0		6.9
RSB-5-U	5	80%	10%	167	29.9		11.5
RSB-6-U	6	Max .of	Min .of	240	25.0	150	13.8
RSB-9-U	9	nominal	nominal	540	16.6	150	20.7
RSB-12-U	12	voltage	voltage	960	12.5		27.6
RSB-24-U	24			3,840	6.2		55.2

Products Line (2 coil latching, Standard type)(at 20 degree Celsius)

Model number	Nominal Voltage (VDC)	Set voltage (VDC)	Reset voltage (VDC)	Coil resistance (ohm)	Nominal operating current (mA)	Electric power consumption (mW)	Max .allowable voltage (VDC)
RSBL-3	3		70% Min .of nominal voltage	25	120		4.6
RSBL-5	5	70%		69.4	72	360	7.8
RSBL-6	6	70% Max .of		100	60		9.3
RSBL-9	9	nominal		225	40		14.0
RSBL-12	12	voltage		400	30		18.7
RSBL-24	24			1,600	15		37.4
RSBL-48	48			6,400	7.5		74.8

## Products Line (2 coil latching, High sensitive type)(at 20 degree Celsius)

Model number	Nominal Voltage (VDC)	Set voltage (VDC)	Reset voltage (VDC)	Coil resistance (ohm)	Nominal operating current (mA)	Electric power consumption (mW)	Max .allowable voltage (VDC)
RSBL-3-S	3		70% Min .of nominal voltage	50	60		5.8
RSBL-5-S	5	70%		139	36	180	9.8
RSBL-6-S	6	70% Max .of		200	30		11.8
RSBL-9-S	9	nominal		450	20		17.7
RSBL-12-S	12	voltage		800	15		23.6
RSBL-24-S	24			3,200	7.5		47.2
RSBL-48-S	48			12,800	3.8		94.4

## Products Line(1 coil latching, Standard type)(at 20 degree Celsius)

Model number	Nominal Voltage (VDC)	Set voltage (VDC)	Reset voltage (VDC)	Coil resistance (ohm)	Nominal operating current (mA)	Electric power consumption (mW)	Max .allowable voltage (VDC)
RSBK-3	3			25	120		4.6
RSBK-5	5		70% Min .of nominal voltage	69.4	72	360	7.8
RSBK-6	6	70% Max .of		100	60		9.3
RSBK-9	9	nominal		225	40		14.0
RSBK-12	12	voltage		400	30		18.7
RSBK-24	24			1,600	15		37.4
RSBK-48	48			6,400	7.5		74.8



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#### Products Line (1 coil latching, High sensitive type)(at 20 degree Celsius)

Model number	Nominal Voltage (VDC)	Set voltage (VDC)	Reset voltage (VDC)	Coil resistance (ohm)	Nominal operating current (mA)	Electric power consumption (mW)	Max .allowable voltage (VDC)
RSBK-3-S	3		70% Min .of nominal voltage	50	60		5.8
RSBK-5-S	5	70%		139	36	180	9.8
RSBK-6-S	6	70% Max .of		200	30		11.8
RSBK-9-S	9	nominal		450	20		17.7
RSBK-12-S	12	voltage		800	15		23.6
RSBK-24-S	24			3,200	7.5		47.2
RSBK-48-S	48			12,800	3.8		94.4

Typical Specifications

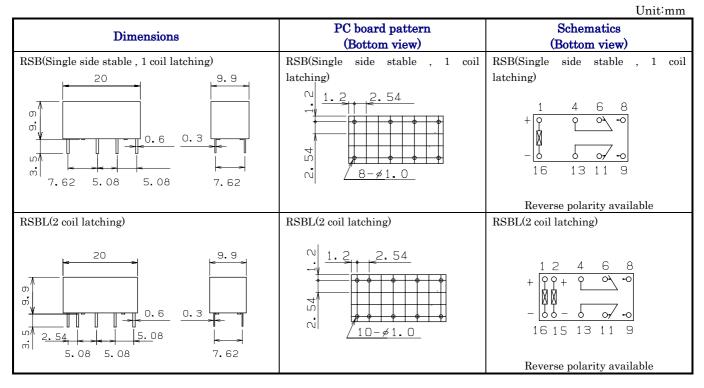
Item			Specifications			
Туре			Standard / High sensitive type	Ultra high sensitive type		
	Arrangement		2c			
Contact	Initial contact res	istance max.	Max. 50 milliohm			
	Material		Silver nickel, gold clad			
	Nominal switching	Capacity	2A30VDC , 1A125VAC*			
Rating	Max .switching po	ower	60W, 125VA			
maning	Max .switching vo	oltage	220VDC, 250VAC			
	Max .switching cu	ırrent	2A			
	Initial insulation	resistance	Min.100 megohm (at 500VD	)C)		
	Withstanding	Between open contacts	AC1,000V (1 minute)			
	voltage (Initial)	Between contacts and coil	AC1,500V (1 minute)			
Electrical specification	Coil Temperature rise (at nominal Voltage)		Max.40 degree Celsius (Standard type) Max.30 degree Celsius (High sensitive type)	Max. 25 degree Celsius		
	Operate time(Set & (at nominal voltag		Max.5msec	Approx. 7msec		
	Release time(at n	ominal voltage)	Max.3.5msec	Approx. 2msec		
	Shock	Functional	Min.392m/s <sup>2</sup> (40G)			
Mechanical	resistance	Destruction	Min.980 m/s <sup>2</sup> (100G)			
specification	Vibration	Functional	10 to 55Hz at double amplitude of 1.5mm			
	resistance	Destruction	10 to 55Hz at double amplitude of 1.5mm			
	Mechanical life		100,000,000 Operations(at 600cpm)			
Life expectancy	Electrical life(at r	ating)	300,000 operations (2A30VDC, 1A125VAC) 1000,000 operations (1A30VDC, 0.5A125VAC) (at 20cpm)	100,000 operations (2A30VDC, 1A125VAC) 500,000 operations (1A30VDC, 0.5A125VAC) (at 20cpm)		
Ambient temperature	Operating		-40 to +70 degree Celsius (without being frozen)			
Unit weight			Approx.4.5g			

\*These AC ratings are under random phase-control. In driving AC load, life expectancy so greatly depends on the phase at turning on or off so that user should check selected relays with actual load



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#### Dimensions



#### Note

- 1. The appearance and specifications of the product may be modified without prior notice to improve its performance.
- 2. This catalog shows only outline specifications. When using the product, please obtain formal specifications for supply.
- 3. Please see appendix "Technical Definitions" and "Technical Notes".
- 4. Please feel free to contact us for relays with the specifications not shown in this catalogue.
- 5. Please confirm the performance on actual operation by simulation with actual environments for high reliability.