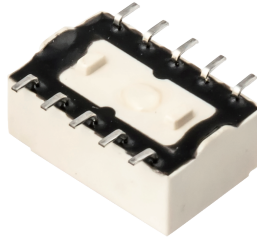




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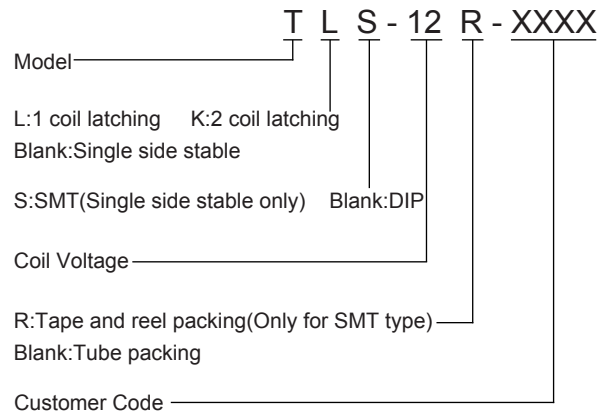
## FEATURES

- Compact size and low profile:  
5(H)mm×14(L)mm×9(W)mm
- Meets FCC part 68 requirements
- High sensitivity:140mW nominal operating power
- SMT and DIP types available
- Fully Sealed

## CONTACT RATINGS

Contact Arrangement	2C
Contact Resistance	≤100mΩ (10mA 6VDC)
Contact Material	Silver Alloy, Gold Flash
Contact Rating(Resistive)	1A, 2A/30VDC; 0.5A/125VAC
Max. Switching Voltage	250VAC/220VDC
Max. Switching Current	2A
Max. Switching Power	62.5VA/60W
Mechanical Life	1×10 <sup>8</sup> operations
Electrical Life	See more details at "safety approval ratings"

## ORDERING INFORMATION



## CHARACTERISTICS

Insulation Resistance		1000MΩ (500VDC)
Dielectric Strength	Between coil & contacts	1000VAC 1min
	Between open contacts	1000VAC 1min
	Between 2 pole contacts	1000VAC 1min
Surge withstand voltage	Between coil & contacts	1500VAC 1min
	Between open contacts	1500VAC 1min
	Between 2 pole contacts	2500VAC 1min
Operate time (at nomi. volt.)		≤2ms
Release time (at nomi. volt.)		≤1.5ms
Humidity		98% RH
Operation temperature		-40°C~+85°C
UL Class B		Insulation System Class B
Shock Resistance	Functional	490m/s <sup>2</sup>
	Destructive	980m/s <sup>2</sup>
Vibration resistance	Functional	10Hz to 55Hz 3mm DA
	Destructive	10Hz to 55Hz 5mm DA
Unit weight		Approx. 1.5g
Construction		Sealed Type

Notes:1) The data shown above are initial values.  
2) Please find coil temperature curve in the characteristic curves.

## COIL DATA

at 25°C

### Single side stable

Nominal Voltage VDC	Operate Voltage (Max.) VDC	Release Voltage (Min.) VDC	*Max. Allowable Voltage VDC	Coil Resistance Ω±10%
3	2.25	0.3	7.5	64.3
5	3.75	0.5	12.5	178
6	4.50	0.6	15.0	257
9	6.75	0.9	22.5	579
12	9.00	1.2	30.0	1028
24	18.00	2.4	48.0	2880

Note: \*\*Max Allowable Voltage\*: The relay coil can endure max allowable voltage for a short period time only.

This datasheet is for customers' reference. All the specifications are subject to change without notice.



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# RELAYS

## COIL DATA at 25°C

### 1 coil latching

Nominal Voltage VDC	Action Voltage (Max.) VDC	Reset Voltage (Min.) VDC	*Max. Allowable Voltage VDC	Coil Resistance $\Omega \pm 10\%$
3	2.25	2.25	8.7	90
5	3.75	3.75	14.5	250
6	4.50	4.50	17.4	360
9	6.75	6.75	26.1	810
12	9.00	9.00	34.8	1440
24	18.00	18.00	57.6	3840

### 2 coil latching

Nominal Voltage VDC	Action Voltage (Max.) VDC	Reset Voltage (Min.) VDC	*Max. Allowable Voltage VDC	Coil Resistance $\Omega \pm 10\%$	
				Set Coil	Reset Coil
3	2.25	2.25	6.0	45	45
5	3.75	3.75	10.0	125	125
6	4.50	4.50	12.0	180	180
9	6.75	6.75	18.0	405	405
12	9.00	9.00	24.0	720	720
24	18.00	18.00	36.0	1920	1920

Note: "Max Allowable Voltage": The relay coil can endure max allowable voltage for a short period time only.

## COIL

Coil Power	Single side stable:140mW(24VDC:200mW) 1 coil latching:100mW(24VDC:150mW) 2 coil latching:200mW(24VDC:300mW)
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## SAFETY APPROVAL RATINGS

UL&CUL	0.5A/125VAC, $6 \times 10^3$ OPS 1A/30VDC, $6 \times 10^3$ OPS
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### NOTES:

1. All values without specified temperature are at 25°C.
2. The above lists the typical loads only. Other loads may be available upon request.

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# RELAYS

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## OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT.

Unit: inch (mm)

### Outline Dimensions

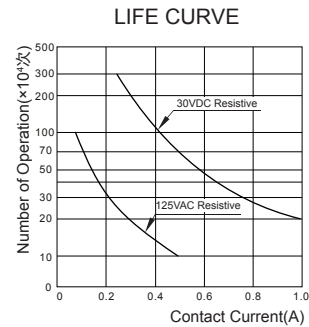
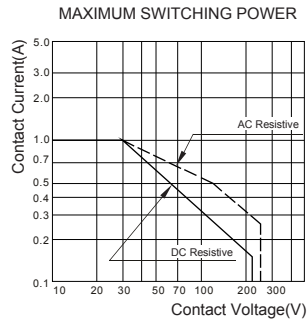
### Wiring Diagram (Bottom view)

### PCB Layout (Bottom view)

<p><b>Biserial straight pin</b></p> <p><b>Surface mount</b></p>	<p><b>Single side stable</b></p> <p><b>1 coil latching</b></p> <p><b>2 coils latching</b></p> <p>(Reset position shown)</p>	
<p>Unless otherwise specified tolerances are:</p>		
<p>≤1mm</p>	<p>&gt; 1mm and ≤5mm</p>	<p>&gt;5mm</p>
<p>±0.2mm</p>	<p>±0.3mm</p>	<p>±0.4mm</p>
		<p>* The tolerance without indicating for PCB layout is always ±0.1mm.</p>

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## CHARACTERISTIC CURVES



## PACKAGING SPECIFICATION

TUBE	INNER CARTON	OUTER CARTON	OUTER CARTON SIZE
25PCS	3000PCS	6000PCS	L480mm*W245mm*H335mm

## APPLICATION GUIDELINES

### Automatic Soldering

- \* Flow solder is the optimum method for soldering.
- \* Adjust the level of solder so that it does not overflow onto the top of the PC board.
- \* Unless otherwise specified, solder under the following conditions depending on the type of relay.

Preheat time 20°C-100°C	Rising slope 20°C-120°C	Decreasing slope Peak-150°C	Welding temperature 255°C-265°C
90±5 seconds	< 3°C/s	< 4°C/s	3~5s

### Hand Soldering

- \* Keep the tip of the soldering iron clean.

Solder Iron	30W or 60W
Iron Tip Temperature	Approx. 350°C 662°F
Solder Time	Within approx. 3 seconds

- \* Immediate air cooling is recommended to prevent deterioration of the relay and surrounding parts due to soldering heat.
- \* Although the sealed type relay can be cleaned, avoid immersing the relay into cold liquid (such as washing solvent) immediately after soldering. Doing so may deteriorate the sealing performance.

### Discard the dropped product

This datasheet is for customers' reference. All the specifications are subject to change without notice.