

# S2 RELAY

**SHORI**

## ◆ Features

- S2 Relay Performs high reliability in dry circuit.
- Low current and low profile miniature PCB relay.
- Plastic sealed and flow solder types are available.
- Employment of suitable plastic materials is applied Under high temperature condition and various chemical solutions.



## ◆ Coil Data [at 23°C]

- Standard Type

Rated voltage (V)	Coil Resistance ±10% (Ω)	Rated Current ±10% (mA)	Pick up Voltage (Max)	Drop out Voltage (Min)	Max continuous Voltage	Power consumption At rated Voltage
3	25	120	75% of rated voltage	5% of rated voltage	130% Max of Rated voltage	Approx.0.36W
5	70	72				
6	100	60				
9	225	40				
12	400	30				
24	1600	15				
48	6400	7.5				

- High sensitivity Type

Rated voltage (V)	Coil Resistance ±10% (Ω)	Rated Current ±10% (mA)	Pick up Voltage (Max)	Drop out Voltage (Min)	Max continuous Voltage	Power consumption At rated Voltage
3	45	66.7	75% of rated voltage	5% of rated voltage	130% Max of Rated voltage	Approx.0.2W
5	125	40				
6	180	33.3				
9	400	22.5				
12	700	17				
24	2800	8.6				

## ◆ Contact Rating

Resistive load	1A 120VAC, 2A 24VDC, 3A 125VAC, 3A 30VDC
Max. switching current	3A
Max. switching voltage	125VAC
Max. switching capacity	375VA

## ◆ Type List

Terminal style	Coil Power	UL Insulation System approval	Designation(provided with)	
			Sealed type	Sealed type washable
PCB terminal	Standard	-----	S2-12	S2-12-S
	High sensitivity	F	S2-12B-F	S2-12B-S-F

### ◆ Ordering information

S2 - 12B - S - F  
 1            2 3        4

1. S2 -- Basic series designation

2.12 -- Coil Voltage (3V~48V)

3. Power Consumption

B --High sensitivity Type(0.2W)

Blank --Standard Type(0.36W)

4. S -- Sealed type washable

Blank -- Sealed type

5. Insulation standard

F --Class F

Blank -- standard type

### ◆ Specification

Contact material	Ag Alloy	
Contact resistance	100 mΩ Max	
Operate time	10 ms Max	
Release time	5 ms Max	
Insulation resistance	100 MΩ Min. (DC 500V)	
Dielectric strength	Between open contact : AC 500V ,50/60Hz 1 min.	
	Between contact and coil : AC 1000V, 50/60Hz 1 min.	
Vibration resistance	Operating extremes	10~50Hz, amplitude 1.5 mm
	Damage limits	10~50Hz, amplitude 1.5 mm
Shock resistance	Operating extremes	10G
	Damage limits	100G
Life expectancy	Mechanical	10,000,000 operations (frequency 18,000 operations/hr)
	Electrical	100,000 operations (frequency 1,800 operations/hr)
Operating ambient temperature	Standard Type(-25~+55°C),High sensitivity Type(-25~75°C)	
Weight	Approx 3.5 g	

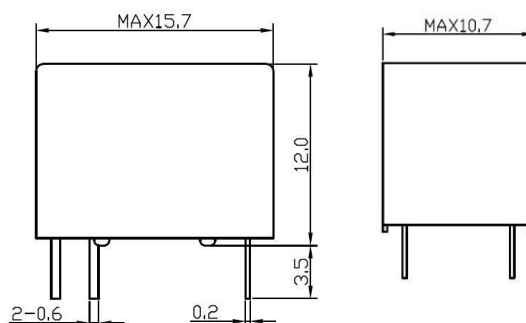
### ◆ Safety Approval

Certified	UL/CUL
File No.	E188091

### ◆ Safety Approval Rating

UL/CUL
1A 120VAC , 2A 24VDC , 3A 125VAC , 3A 30VDC , 150W/125VAC Tungsten

### ◆ Outline Dimension



Dimension:mm

TOLERANCE:

<1mm:±0.2mm

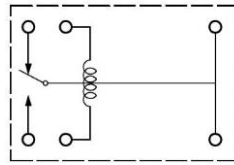
1-5mm:±0.3mm

>5mm :±0.4mm

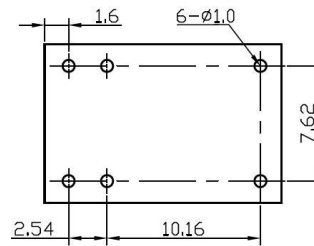
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## SHORI

### ◆ Wiring Diagram (BOTTOM VIEW)



### ◆ PC Board Layout (BOTTOM VIEW)



### ◆ Engineering Data

