



Patent: ZL 2010 2 0563190.5



## ISO9001、ISO14001 Certification Enterprises

### Main Feature

1. Small size (19.2x15.5x15.3 in mm) produces a switching capacity up to 15A for high density P.C. Board mounting technique.
2. The contact form construction is 1A/1B/1C
3. The Surge Resistance of BRD series is 3,000V
4. Sealing Construction (Free from dust and solder flux): BRD-SS: Plastic Sealed Type.
5. The selection of plastic insulation material is designed for high temperature and provides better chemical solution performance.
6. RoHS Compliant.

### Application

Air Conditioning, Fridge, Washing Machine, etc Household Appliances

### Contact Rating

- Nominal Load(Resistive Load  $\cos \phi = 1$ )  
Contact Capacity  
BRD.....12A at 250VAC  
15A at 125VAC  
TV-5(SPST-NO)
- Max. Allowable Current  
BRD.....15A
- Max. Allowable Voltage  
BRD.....AC250V
- Max. Allowable Power Force  
BRD.....3,000VA
- Contact Material..... Ag Alloy
- Contact Form..... SPDT & SPST

### Performance (at Initial Value)

- Contact Resistance..... $\leq 50m \Omega$  at 6VDC/1A
- Operate Time.....10ms. Max
- Release Time..... 5ms. Max
- Dielectric Strength:  
Between Coil & Contact.....1,500VAC at 50/60 Hz  
for one minute  
Between Contacts.....1,000VAC at 50/60 Hz  
for one minute
- Surge Resistance.....3,000V (between Coil  
& Contact 1.2x50  $\mu s$ )
- Insulation Resistance.....1,000 Mega  $\Omega$  Min. at  
500VDC

- Max. On/Off Switching:  
Electrical.....30 Ops per minute  
Mechanical.....300 Ops per minute
- Temperature Range..... - 40~85°C
- Humidity Range.....5%~85% RH
- Coil Temperature Rise..... 35°C Maximum
- Vibration:  
Endurance.....10 to 55 Hz dual  
amplitude width 1.5mm  
Error Operation.....10 to 55 Hz dual  
amplitude width 1.5mm
- Shock:  
Endurance..... 98.1m/s<sup>2</sup> Min  
Error Operation..... 98.1m/s<sup>2</sup> Min
- Life Expectancy:  
Electrical.....10<sup>5</sup> Operations at  
Rated Resistive  
load  
Mechanical.....10<sup>7</sup> Operations at  
No load condition
- Weight.....about 9g

### Safety Standard & Its File Number

- UL.....E333244
- TUV.....R50183595
- CQC.....CQC10002054413

**Coil Specification (at 20 °C)**

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ( $\Omega \pm 8\%$ )	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Maximum Allowable Voltage (VDC)
BRD-L BRD-LF BRD-LM BRD-LMF	3	120	25	Abt. 0.36	75% Maximum	10% Minimum	130%
	5	71.4	70				
	6	60	100				
	9	40	225				
	12	30	400				
	24	15	1,600				
	48	7.5	6,400				

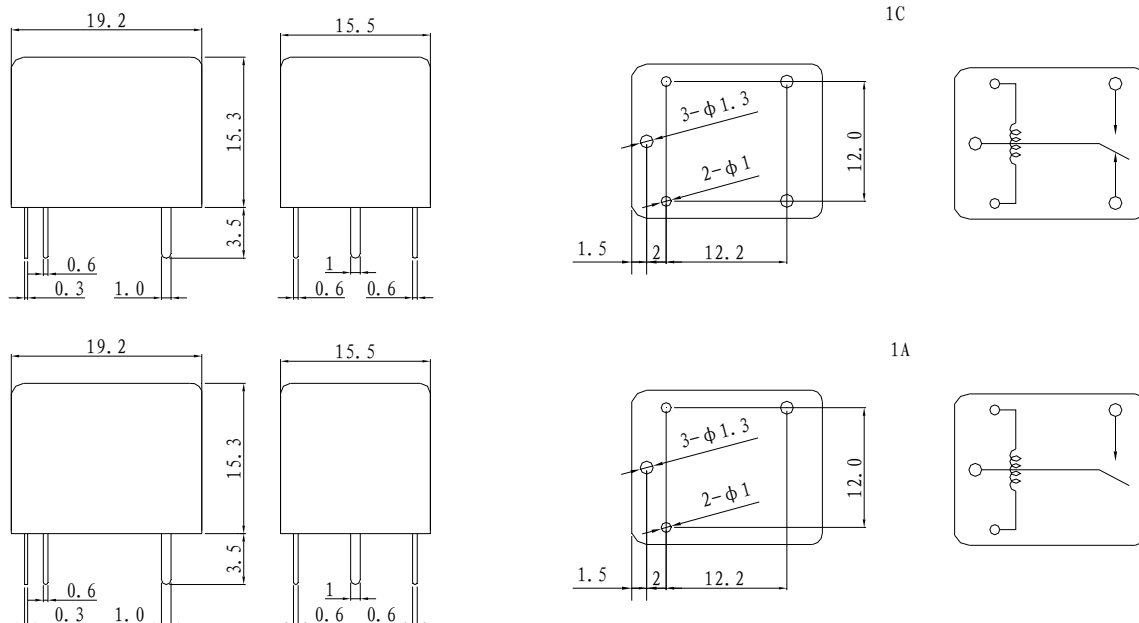
**Ordering Information**

<b>BRD</b>	<b>-</b>	<b>SS</b>	<b>-</b>	<b>1</b>	<b>12</b>	<b>L</b>	<b>M</b>	<b>F</b>	<b>Insulation Class: F:Class F Nil:Class B</b>
									<b>Contact Form: Nil:One form C M:One form A B:One form B</b>
									<b>Coil Type: L:Standard DC Coil</b>
									<b>Coil Voltage: 03:3V, 05:5V,06:6V,09:9V 12:12V,24:24V.48:48V</b>
									<b>Number of Pole: 1:One Pole</b>
									<b>Type of Sealing: SS:Plastic Sealed Type</b>
									<b>Type: BRD</b>

**Classification**

Model	BRD		
Coil Sensitivity	High Sensitivity DC Coil		
	1C	1A	1B
Plastic Sealed Type	BRD-SS-1□□L BRD-SS-1□□LF	BRD-SS-1□□LM BRD-SS-1□□LMF	BRD-SS-1□□LB

**Dimension**



Dimension Tolerance: < 1mm:  $\pm 0.2$ mm  
1—5mm:  $\pm 0.3$ mm  
> 5mm:  $\pm 0.5$ mm