

# N4078



21×10×12

UL E158859

R50126375

### Features

- Small size, light weight.
- Low coil power consumption.
- PC board mounting.
- Suitable for household electrical appliances, automation system, electronic equipment, instrument, meter, telecommunication facilities and remote control facilities.

### Ordering Information

**N4078 2C 3V 0.2W**  
 1      2      3      4

1 Part number: N4078

2 Contact arrangement: 2C:2C

3 Coil rated voltage(V): DC:5,9,12,24

4 Coil power: 0.2W;0.36W

### Contact Data

Contact Arrangement	2C (DPDT (B-M))		
Contact Material	Ag,AgNi(Au plated)		
Contact Rating (Resistive)	2A/30VDC;1A/125VAC,24VDC		
Max. Switching Power	60W	125VA	
Max. Switching Voltage	30VDC	220VAC	Max.Switching Current:2A
Contact Resistance	≤50mΩ		Item 4.12 of IEC 61810-7
Operational Life	Electrical	1×10 <sup>5</sup>	Item 4.30 of IEC 61810-7
	Mechanical	1×10 <sup>7</sup>	Item 4.31 of IEC 61810-7

**CAUTION:** 1.For the intermediate current, it only applies to the room temperature.  
 2.For gold plated version, the min. switching current and min. switching voltage is 50mA/6VDC; for non gold plated version (standard type),the min. switching current and min. switching voltage is 100mA/6VDC.

### Coil Parameter

Dash numbers	Coil voltage VDC		Coil resistance Ω ± 10%	Pick-up voltage VDC (max) (70% of rated voltage)	Drop-out voltage VDC (min) (10% of rated voltage)	Coil power W	Operate time ms	Release time ms
	Rated	Max						
005-200	5	6.5	125	3.50	0.5	0.20	≤6	≤5
009-200	9	11.7	405	6.75	0.9			
012-200	12	15.6	720	8.40	1.2			
024-200	24	31.2	2880	18.0	2.4			
005-360	5	6.5	70	3.50	0.5	0.36	≤6	≤5
012-360	12	15.6	400	8.40	1.2			
024-360	24	31.2	1600	18.0	2.4			

**CAUTION:** 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.  
 2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

## Characteristics

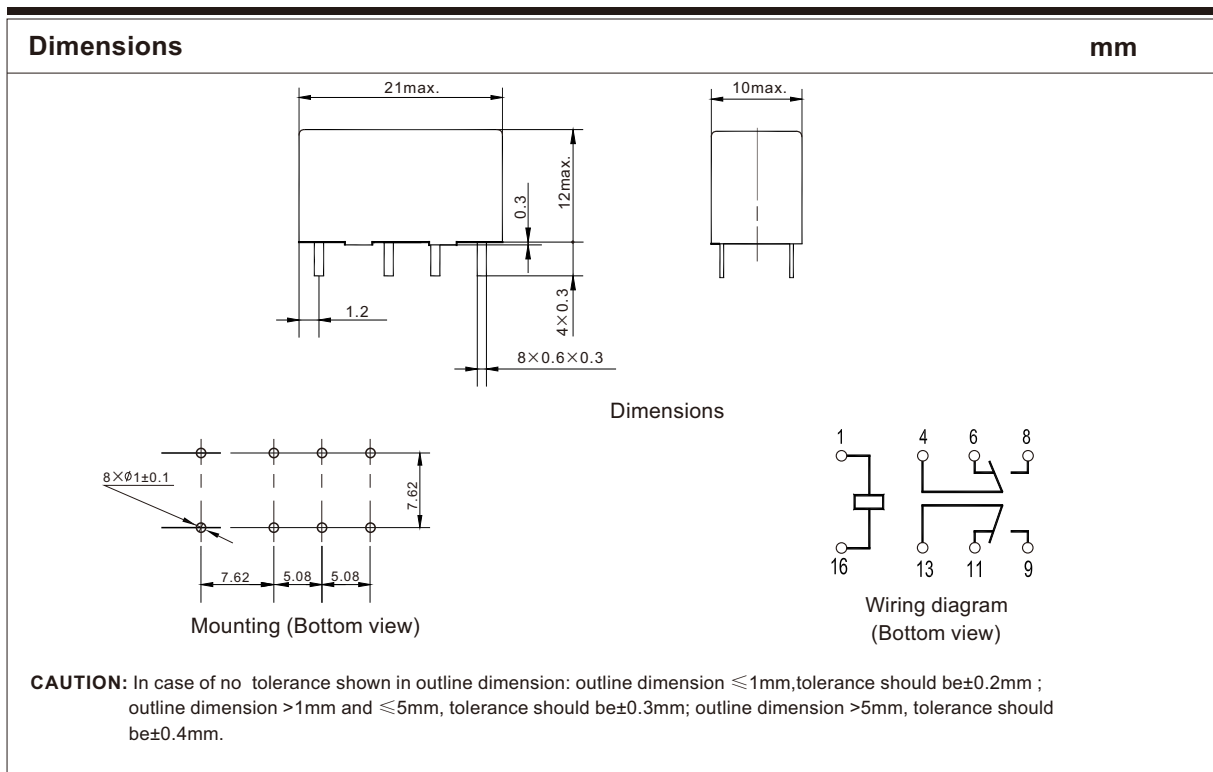
Insulation Resistance	500M $\Omega$ min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength Between Contacts Between Contact and Coil	50Hz 500V 50Hz 1000V	Item 4.9 of IEC 61810-7 Item 4.9 of IEC 61810-7
Shock Resistance	490m/s <sup>2</sup> 11ms	Item 4.26 of IEC 61810-7
Vibration Resistance	10Hz~70Hz Double amplitude 1.5mm	Item 4.28 of IEC 61810-7
Terminals Strength	5N	Item 4.24 of IEC 61810-7
Ambient Temperature	-30 $^{\circ}$ C~70 $^{\circ}$ C	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Mass	5.5g	Item 4.7 of IEC 61810-7

## Safety Approvals

Safety approval	UL & CUR	TUV
Load	2A/30VDC;1A/125VAC;1A/24VDC	1A/125VAC;24VDC

## Dimensions

mm



**CAUTION:** In case of no tolerance shown in outline dimension: outline dimension  $\leq 1$ mm, tolerance should be  $\pm 0.2$ mm ; outline dimension  $> 1$ mm and  $\leq 5$ mm, tolerance should be  $\pm 0.3$ mm; outline dimension  $> 5$ mm, tolerance should be  $\pm 0.4$ mm.

## Reference Data

