# **DBLECTRO**<sup>2</sup> Présente / Presents:

## NINGBO HUAGUAN ELECTRONICS CO., LTD.



### **NHG RELAYS**



#### 17.5×6.5×12.5

#### Features

Small size,light weight.

PC board mounting

- Low coil power consumption 0.2W.

• Suitable for household electrical appliances, automation system, electronic equipment, instrument, meter, telecommunication facilities and remote control facilities.

**Ordering Information** 

#### NG6D A DC12V 1 2 3

1 Part number: NG6D 2 Contact arrangement: A:1A 3 Coil rated voltage (V): DC:5,12,24

NG6D

c Sus E158859

Patent NO.: 200420081938.2

RoHS

#### **Contact Data**

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Contact Arrangement		1A (SPSTNO)				
Contact Material		Silver Alloy				
Contact Rating (resistive)		5A/30VDC,250VAC				
Max. Switching Power		150W	1250VA	minSwitching load:10mA/5V		
	Max. Switching Voltage		30VDC	250VAC	Max. Switching Current:5A	
	Contact Resis	Contact Resistance or Voltage drop		Ω	Item 3.12 of IEC255-7	
	Operational	Electrical	10 <sup>⁵</sup>		Item 3.30 of IEC255-7	
	life	Mechanical	$2 \times 10^{7}$		Item 3.31 of IEC255-7	

#### CAUTION:

Relays previously tested or used above 10mA resistive at 6VDC maximum or peak AC open circuit are not recommended for subsequent use in low level applications.

#### **Coil Parameter**

Dash numbers	Rated voltage VDC		Coil resistance $\Omega \pm 10\%$	Pickup voltage V (max) (70%of rated	Release voltage VDC (min) (10%of rated	Coil power consumption W	Operate Time ms	Release Time ms
	Rated	Max.		Volt)	Volt)		inte	inio
005-200	5	6.5	125	3.5	0.5			
012-200	12	15.6	720	8.4	1.2	0.2	≪10	≪5
024-200	24	31.2	2880	16.8	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.

### **Operation condition**

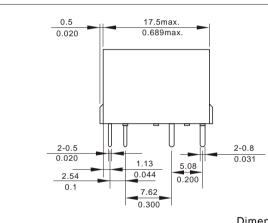
Insulation Resistance	1000MΩ min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength Between contacts Between contact and coil	50Hz 750V 50Hz 3000V surgevoltage:6kV	Item 6 of IEC255-5 Item 6 and 8 of IEC255-5
Shock resistance	Functional:100m/s <sup>2</sup> 11ms Survival:1000m/s <sup>2</sup> 6ms	IEC68-2-27 Test Ea
Vibration resistance	10~50Hz Functional & Survival double amplitude 1.5mm	IEC68-2-6 Test Fc
Terminals strength	5N	IEC68-2-21 Test Ua1
Solderability	235℃±2℃ 3±0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-25~70°C	
Relative Humidity	20% ~85% (at40℃)	IEC68-2-3Test Ca
Mass	3g	

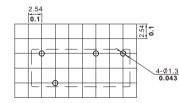
#### Qualification inspection:

#### Safety approvals

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Safety approval	UL & CUR		
Load	5A/250VAC,30VDC		





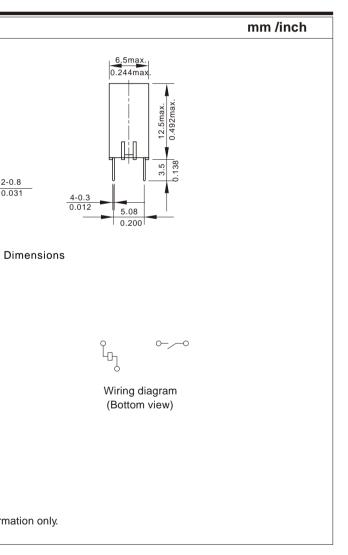


Mounting (Bottom view)

NOTES 1). Dimensions are in millimeters. 2).Inch equivalents are given for general information only.

## NG6D

Perform the qualification test as specified in the table IV of IEC255-19-1 and minimum sample size 24.



Ningbo Huauan Relay Corporation LTD.