17.5×6.5×12.5

N G 6 D

Features

- Small size, light weight.
- Low coil power consumption 0.2W.
- PC board mounting.
- Suitable for household electrical appliance, automation system, electronic equipment, instrument, meter, telecommunication facilities and remote control facilities.

Contact Data

Contact Arrangement		1A	
Contact Material		Silver Alloy	
Contact Rating (resistive)		5A/30VDC,250VAC ;	
Max. Switching Power		150W 1250VA	min Load:10mA/5VDC
Max. Switching Voltage		30VDC 250VAC	Max. Switching Current:5A
Contact Resistance & Voltage drop		⩽100mΩ	Item 3.12 of IEC255-7
Operation life	Electrical	1×10^5	Item 3.30 of IEC255-7
	Mechanical	2×10^7	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

Coil voltage VDC		Coil resistance Ω±10%	Pickup voltage VDC(max) (75%of rated voltage)	release voltage VDC(min) (10% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
Rated	Max.						
5	6.5	125	3.75	0.5			
12	15.6	720	9.00	1.2	0.2W	⩽10	⩽5
24	31.2	2880	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.

Operation condition

Insulation Resistance	1000MΩ min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength		
Between contacts	50Hz 750V	Item 6 of IEC255-5
Between contact and coil	50Hz 3000V Surge voltage:6kV	Item 6 and 8 of IEC255-5
Shock resistance	Functional ：100m/s² 11ms Endurance：1000m/s² 6ms	IEC68-2-27 Test Ea
Vibration resistance	10~55Hz Functional double amplitude 1.5mm Endurance：double amplitude 1.5mm	IEC68-2-6 Test Fc
Terminals strength	5N	IEC68-2-21 Test Ua1
Solderability	230℃±2℃ 10±0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-25~70℃	
Relative Humidity	35%~85%	IEC68-2-3Test Ca
Mass	3g	

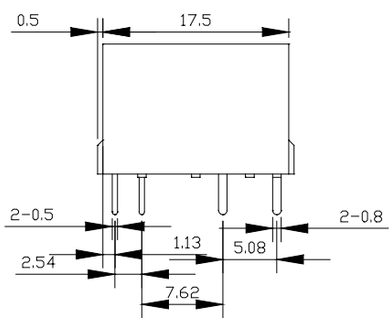
Qualification inspection:

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

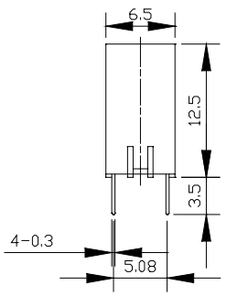
Ordering Information

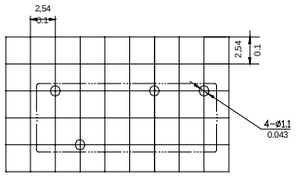
NG6D	A	DC12V			
					Coil rated DC Voltage 5V, 12V, 24V
				Contact Arrangement：A：1A	
			Part number：NG6D		

Dimensions (Unit: mm)

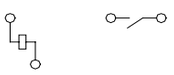


Dimensions





Mounting (Bottom views)



Wiring diagram
(Bottom views)

mm	inch
0.3	0.012
0.6	0.020
0.8	0.031
1.1	0.043
1.13	0.044
2.54	0.100
3.5	0.138
5.08	0.200
6.5	0.244
7.62	0.300
12.5	0.492
15.24	0.600
17.5	0.689

NOTES 1).Dimensions are in millimeter.

2).Inch equivalents are given for general information only.