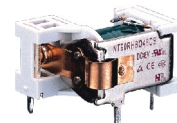


# DB ELECTRO<sup>CO., LTD.</sup>

Présente / Presents:

NINGBO HUAGUAN ELECTRONICS CO.,LTD.

**NHG**<sup>®</sup>





22.5×16.5×16.5

# NCF2

Patent No. :01210551.1 01310478.0

Features

- Small size, light weight.
- Low coil power consumption.
- Operation noise: less than 50db.
- PC board mounting.
- Suitable for automobile, automation system, electronic equipment.

Ordering Information

NCF2    Q    2×1C    DC12V  
1        2        3        4

1 Part number: NCF2  
2 Noise: NIL: Standard; Q: Quiet  
3 Contact arrangement: 2×1C  
4 Coil rated voltage(V): DC:12

Contact Data

Contact Arrangement	2×1C (2×SPDT(B-M)) (H-Bridge)		
Contact Material	AgSnO <sub>2</sub>		
Contact Rating (resistive)	NO: 20A/14VDC; NC: 10A/14VDC		
Max. Switching Power	300W		
Max. Switching Voltage	16VDC	Max. Switching Current:20A	
Contact Resistance or Voltage drop	≤ 50mΩ	Item 3.12 of IEC255-7	
Operation	Electrical	10 <sup>5</sup>	Item 3.30 of IEC255-7
life	Mechanical	10 <sup>7</sup>	Item 3.31 of IEC255-7

Coil Parameter

Dash numbers	Coil voltage VDC	Operating Voltage Range VDC	Coil resistance Ω ±10%	Pickup voltage VDC(max) (60%of rated voltage )	Release voltage VDC(min) (8% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
	Rated							
012-640	12	10-16	225	7.2	1.0	0.64	≤10	≤10

**CAUTION:** 1.The use of any coil voltage overstep operating voltage range of coil , it 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.

Sound Pre. Characteristics (Q type):

Operation noise : <50db  
Coil voltage :12VDC

Operation condition

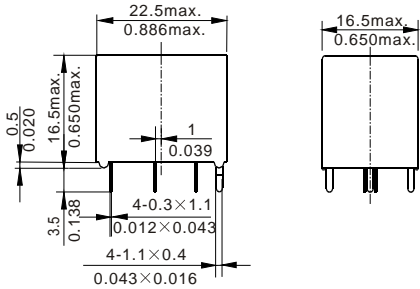
Insulation Resistance	100MΩ min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength Between contacts Between contact and coil	50Hz 1000V 50Hz 1000V	Item 6 of IEC255-5 Item 6 of IEC255-5
Shock resistance	Functional: 100m/s <sup>2</sup> 11ms; Survival: 1000 m/s <sup>2</sup> 6ms	IEC68-2-27 Test Ea
Vibration resistance	10~100Hz 45 m/s <sup>2</sup>	IEC68-2-6 Test Fc
Terminals strength	10N	IEC68-2-21 Test Ua1
Solderability	235℃ ± 2℃ 3 ± 0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~105℃	
Relative Humidity	85% (at 40℃)	IEC68-2-3Test Ca
Mass	17g(Q type ); 15g	

Qualification inspection:

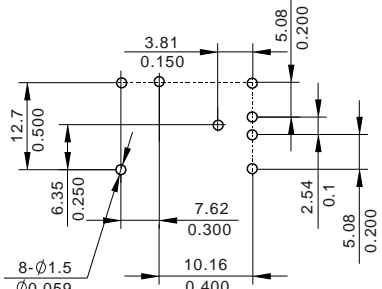
Perform the qualification test as specified in the table IV of IEC255-19-1 and minimum sample size 24.

Dimensions

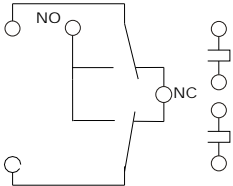
mm /inch



Dimensions



Mounting (Bottom view)



Wiring diagram  
(Bottom view)

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