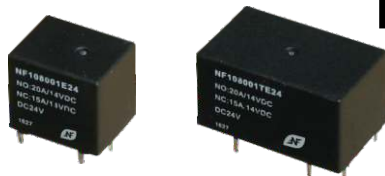


## NF108 / NF108T



16.0×12.5×14.4 16.0×25.5×14.4

### Features

- Small size, light weight
- Low coil consumption
- PC board mounting

### Ordering Information

| <u>NF108</u>            | <u>100</u>                        | <u>E</u> | <u>12</u> | <u>S</u>       | <u>XXXX</u>  |
|-------------------------|-----------------------------------|----------|-----------|----------------|--|
| 1                       | 2                                 | 3        | 4         | 5              | 6  |
| 1. Type:                | NF108 = Single;<br>NF108T = Twin; |          |           | 5. Protection: | Nil = Dust cover;<br>S = Sealed type;;                         |
| 2. Contact arrangement: | 100U = 1U;<br>001 = 1C;           |          |           | 6. Special:    | XXXX = Letters and / or<br>number for special<br>custom design |
| 3. Contact material:    | E = Ag alloy                      |          |           |                |  |
| 4. Coil voltage:        | 12 = 12VDC; 24 = 24VDC;           |          |           |                |  |

### Contact Data

|                                    |  |                 |                            |
|------------------------------------|--|-----------------|----------------------------|
| Contact Arrangement                | 1C (SPDT(B-M)) ,1U (SPSTNODM) ,2C (DPDT) ,2U (DPSTNODM)  |                 |                            |
| Contact Material                   | AgSnO  |                 |                            |
| Contact Rating (resistive)         | 15A, 20A/14VDC<br>inrush current 30A (L/R=7mS; 15mS max) |                 |                            |
| Max. Switching Power               | 280W   |                 |                            |
| Max. Switching Voltage             | 16VDC  |                 | Max. Switching Current:20A |
| Contact Resistance or Voltage drop | ≤100mΩ   |                 | Item 4.12 of IEC 61810-7   |
|                                    | 250mV(at10A)   |                 | Item 4.12 of IEC 61810-7   |
| Operation life                     | Electrical   | 10 <sup>5</sup> | Item 4.30 of IEC 61810-7   |
|                                    | Mechanical   | 10 <sup>7</sup> | Item 4.31 of IEC 61810-7   |

### Coil Parameter

| Dash numbers | Coil voltage VDC |      | Coil resistance Ω ±10% | Pickup voltage VDC(max)<br>(61%of rated voltage ) | Release voltage VDC(min)<br>(7.5% of rated voltage) | Coil power consumption W | Operate Time ms | Release Time ms |
|--------------|------------------|------|------------------------|---|---|--------------------------|-----------------|-----------------|
|              | Rated            | Max. |                        |   |   |                          |                 |                 |
| 012-690      | 12               | 16   | 210                    | 7.3   | 0.9   | 0.69                     | ≤10             | ≤5              |
|              |                  |      |                        | 9.0(at 80℃)                                       |   |                          |                 |                 |

**CAUTION:** 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.

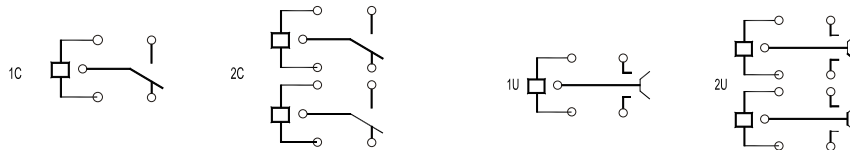
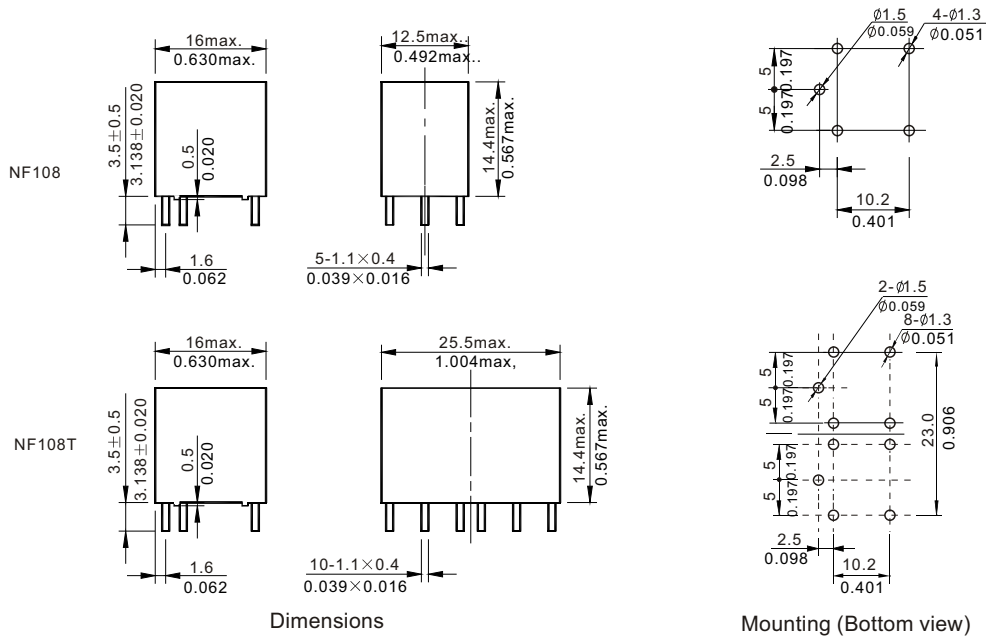
2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

### Operation condition

|   |                                  |  |
|---|----------------------------------|--|
| Insulation Resistance   | 100MΩ min (at 500VDC)            | Item 7 of IEC 60255-5                          |
| Dielectric Strength<br>Between contacts<br>Between contact and coil | 50Hz 500V<br>50Hz 500V           | Item 6 of IEC 60255-5<br>Item 6 of IEC 60255-5 |
| Shock resistance  | 100m/s <sup>2</sup> 11ms         | IEC 68-2-27 Test Ea                            |
| Vibration resistance  | 10Hz~55Hz double amplitude 1.5mm | IEC 68-2-6 Test Fc                             |
| Terminals strength  | 5N                               | IEC 68-2-21 Test Ua1                           |
| Solderability   | 235℃ ±2℃ 3s ±0.5s                | IEC 68-2-20 Test Ta method 1                   |
| Ambient Temperature   | -40℃~105℃                        |  |
| Relative Humidity   | 85% (at 40℃)                     | IEC 68-2-3 Test Ca                             |
| Mass  | 5.5gNG8QW:11g)                   |  |

## Dimensions

mm /inch



Wiring diagram(Bottom view)

NOTES 1).Dimensions are in millimeters.

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

### Disclaimer

All technical performance data apply to the relay as such, specific conditions of the individual application are not considered. Please always check the suitability of the relay for your intended purpose. We do not assume any responsibility or liability for not complying herewith. We recommend to complete our questionnaire and to request our technical service. Any responsibility for the application of the product remains with the customer only. All specifications are subject to change without notification. All rights of NF Forward GmbH & NF Forward USA Inc. are reserved.