

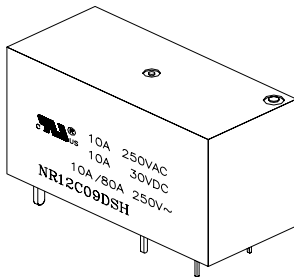


Industrial & Electrical Components

Miniature  
P.C.B Relay

Part No.

NRP-12T



12A 240Vac Slim relay  
Compact dimension  
UL/C-UL recognized  
Sealed type available

**CONTACT**

|                         |                         |
|-------------------------|-------------------------|
| Arrangement             | 1A / 1B / 1C            |
| Contact Material        | Silver Alloy            |
| Contact Resistive       | 100 mΩ                  |
| Rating                  |                         |
| Resistive load (cosφ=1) | 12A 250VAC<br>12A 30VDC |
| Max. Switching Voltage  | 250VAC 110VDC           |
| Max. Switching Current  | 12A                     |
| Max. Switching Power    | 3000VA / 360W           |
| Expected life           |                         |
| Mechanical              | 1×10 <sup>6</sup> Min   |
| Electrical              | 1×10 <sup>4</sup> Min.  |

**CHARACTERISTICS**

|                           |  |
|---------------------------|--|
| Operate Time              | 15 ms. Max.                            |
| Release Time              | 8 ms. Max.                             |
| Initial breakdown voltage |  |
| Between Coil & Contact    | 5000VAC (50/60Hz) for 1 min. at 1mA    |
| Between Open Contacts     | 1000VAC (50/60Hz) for 1 min at 1mA     |
| Insulation Resistance     | Min.100MΩ (500 VDC)                    |
| Shock:                    |  |
| Endurance                 | 100 m/s <sup>2</sup>                   |
| Damage                    | 1000 m/s <sup>2</sup>                  |
| Vibration                 |  |
| Endurance                 | 10 to 55 Hz ,1.5mm D.A. for 15 minutes |
| Damage                    | 10 to 55 Hz ,1.5mm D.A. for 6 hours    |
| Humidity                  | 35%~85%RH                              |
| Ambient temperature       | -40 to +70                             |
| Unit weight               | 13g                                    |

**ORDERING INFORMATION**

e.g

NRP - 12T - C - 12D

Series: Miniature p.c.b Relay

15.6mm height special type

Contact Form:

C=C/O; A = N/O; B= N/C

Coil Voltage: 12D= 12Vdc 24D= 24Vdc

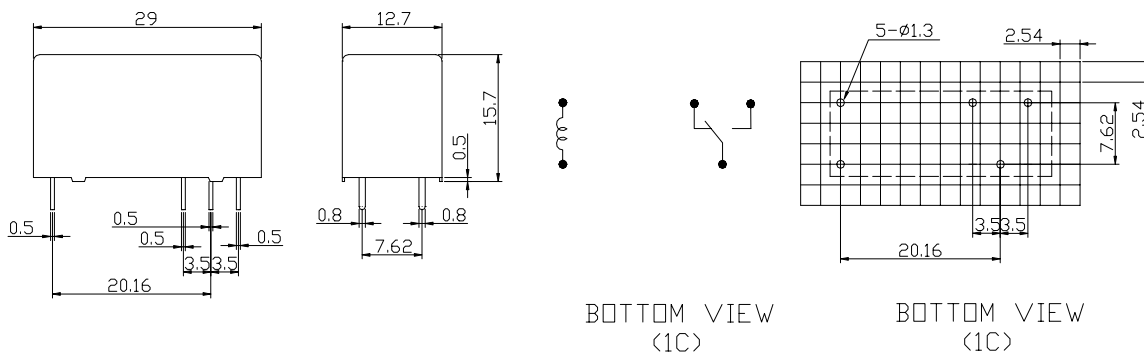
**COIL DATA (at 20 )**

| Nominal Voltage (VDC) | Pick-up Voltage VDC(Max) | Drop-out Voltage VDC(Min) | Coil Resistance ( $\Omega$ ) $\pm 10\%$ | Nominal Current (mA) $\pm 10\%$ | Nominal operating Power (W) | Max.Allowable Voltage   |
|-----------------------|--------------------------|---------------------------|---|---------------------------------|-----------------------------|-------------------------|
| 5                     | 3.75                     | 0.50                      | 62.5                                    | 80                              | 0.40                        | 150% of nominal Voltage |
| 6                     | 4.50                     | 0.60                      | 90                                      | 66                              |                             |                         |
| 12                    | 9.00                     | 1.20                      | 360                                     | 33                              |                             |                         |
| 24                    | 18.00                    | 2.40                      | 1440                                    | 16.7                            |                             |                         |
| 48                    | 36.00                    | 4.80                      | 5760                                    | 8.3                             |                             |                         |
| 60                    | 45.00                    | 6.00                      | 7500                                    | 8.0                             |                             |                         |
| 110                   | 82.50                    | 11.00                     | 30000                                   | 3.7                             |                             |                         |

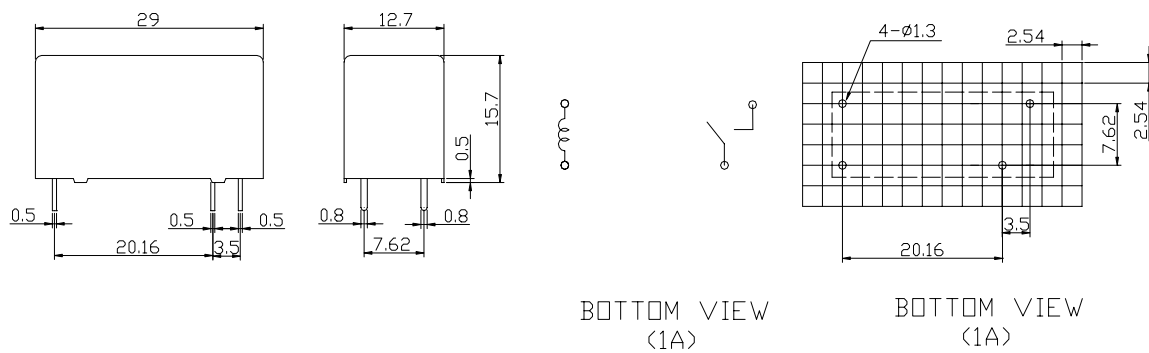
**DIMENSIONS**

Unit: mm Tolerance:  $\pm 0.2$

**NRP12T-C-XXD**



**NRP12T-A-XXD**



**NRP12T-B-XXD**

