

## NRP SERIES

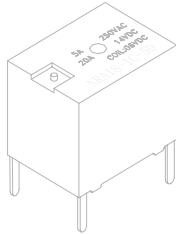


Industrial & Electrical Components

## Automotive Relay

Part No.

# NRP18



20A Switching capabilities  
Subminiature, stand PC layout  
High resistance to vibration  
Low power consumption 0.6W only.

### CONTACT

Arrangement	1A/1B/1C
Contact Material	Silver Alloy
Contact Resistance	
(By voltage drop 6V 1A)	Max. 100mΩ
Rating	NO: 15A 14VDC 10A 120AVAC
Resistive load (Cos.Φ=1)	NC: 10A 14VDC 7A 120VAC
Max. Allowable Voltage	16VDC 250VAC
Max. Allowable Current	20A/14VDC
Max. Allowable Power	400W 840VA
Service life	
Electrical (30 ops/Min)	5 X 10 <sup>4</sup>
Mechanical	1 X 10 <sup>5</sup>

### CHARACTERISTICS

Operate Time	10ms
Release Time	5ms
Initial breakdown voltage	
Between coil & contact	500VAC for 1 Min
Between open contacts	500VAC for 1 Min
Insulation Resistance	Min.100MΩ (500 VDC)
Ambient temperature	-30 ~+75
Humidity	35~85%
Shock	Operating Extremesl 10G
Resistance	Damage 100G
Vibrationl	Resistance 10 to 55 Hz,2.0mm
Unit weight	Approx.6g

### ORDERING INFORMATION

e.g

**NRP - 18 - C - 12D - S - H**

Series: NCR Pcb Relay Series

Part No.

Contact Form: C=1C/O; A = N/O; B= N/C

Coil Voltage: 3, 4.5, 5, 6, 9, 12, 24 dc

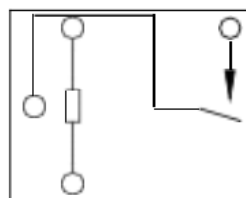
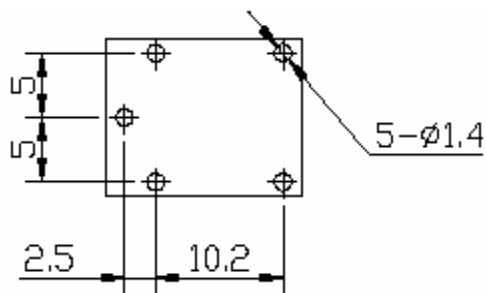
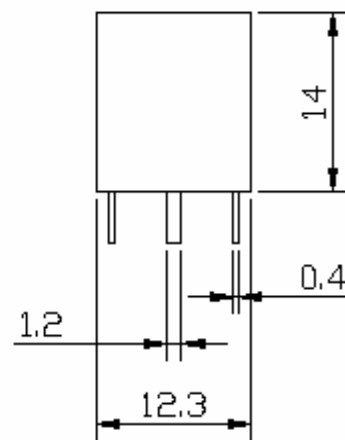
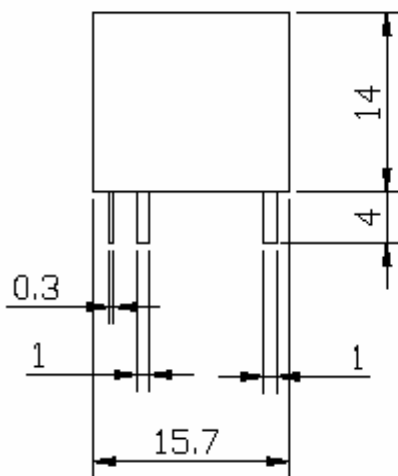
S= Sealed type

Coil power : Nil = 0.8W, H =0.6W

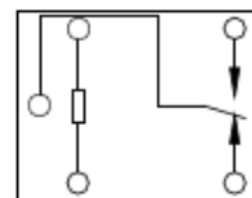
**COIL DATA (at 20 )**

Nomina l Voltage (VDC)	Pick-up Voltage VDC(Max)	Drop-out Voltage VDC(Min)	Coil Resistance ( $\Omega$ ) $\pm$ 10%		Max.Allowable Voltage
			0.6W	0.8W	
6	4.50	0.60	60	45	125% of nominal Voltage
9	6.75	0.90	135	101	
12	9.00	1.20	240	180	
24	18.00	2.40	960	720	

**DIMENSIONS (Unit: mm)**



Form A



Form C

Disclaimer:

The specifications in this datasheet are for reference only and subject to change without notice.No chance for us to evaluate all the specifications and technical parameters for each possible application.The users will take the responsibility to choose the correct products for their own applications. While if any technical support is needed, please contact NCR team for assistance.