

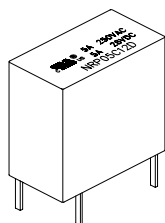


Industrial & Electrical Components

Miniature P.C.B Relay

Part No.

NRP-05



- Ultra-small type with dimensions.
- High sensitivity: 200mW coil power
- UL/C-UL recognized
- Sealed type available

CONTACT

Arrangement	1A, 1C
Contact Material	Silver Alloy
Contact Resistive	$\leq 100 \text{ m}\Omega$
Rating	A: 10A 125VAC; 5A 250VAC / 30VDC
Resistive load ($\cos\phi=1$)	C & AH: 3A 250VAC / 30VDC
	AQ: 8A 250VAC
Max. Switching Voltage	250VAC 30VDC
Max. Switching Current	10A
Max. Switching Power	1250VA / 150W (0.45W type)
Expected life	
Mechanical	1×10^7 Min
Electrical	1×10^5 Min.

CHARACTERISTICS

Operate Time	8ms. Max.
Release Time	5ms. Max.
Initial breakdown voltage	
Between Coil & Contact	2500VAC (50/60Hz) for 1 min.
Between Open Contacts	1000VAC (50/60Hz) for 1 min.
Insulation Resistance	Min. 100M Ω (500 VDC)
Shock:	
Endurance	100 m/s ²
Damage	1000 m/s ²
Vibration	
Endurance	10 to 55 Hz, 1.5mm D.A.
Damage	10 to 55 Hz, 1.5mm D.A.
Humidity	35%~95%RH
Ambient temperature	-40 to +70
Unit weight	$\leq 6\text{g}$

ORDERING INFORMATION

e.g

NRP05 - C - 12D - H - Q

Part N Miniature p.c.b Relay

Contact Form:

C=1C/O; A = N/O

Coil Voltage: 12D= 12Vdc

Nil= 0.45W coil power

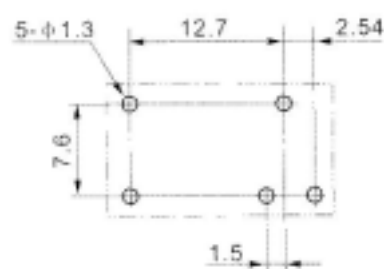
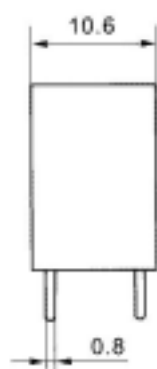
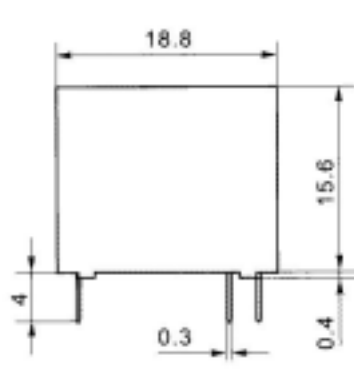
H = 0.20W coil power, Sensitive

Q = High contact capacity

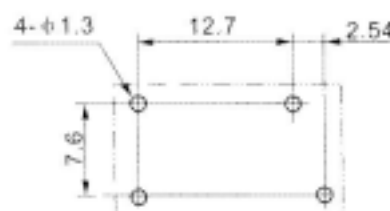
COIL DATA (at 20 °C)

Nominal Voltage (VDC)	Pick-up Voltage VDC(Max)	Drop-out Voltage VDC(Min)	Coil Resistance (Ω) $\pm 10\%$		Nominal operating Power (W)	Max.Allowable Voltage
			High Sensitive 0.20W	Standard 0.45W		
3	2.25	0.15	45	20	0.20 / 0.36	130% of nominal Voltage
5	3.75	0.25	125	55		
6	4.50	0.30	180	80		
9	6.75	0.45	405	180		
12	9.00	0.60	720	320		
18	13.50	0.90	1600	720		
24	18.00	1.20	2880	1280		

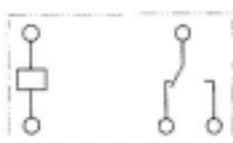
Remarks: Coil Temp. Rise 55 °C at rated coil voltage

DIMENSIONS & DIAGRAM Unit: mm

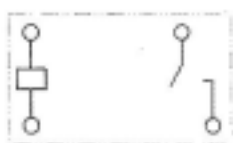
NRP05-C-xxx



NRP05-A-xxx



NRP05-C-xxx



NRP05-A-xxx

REFERENCE DATA