

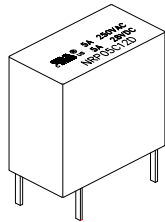
Industrial & Electrical Components

Miniature Relay

P.C.B

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	≤ 100 mΩ
Rating	A: 10A 125VAC; 5A 250VAC / 30VDC
Resistive load (cosφ=1)	AG: 10A 250VAC / 30VDC
	C: or AH: 3A 250VAC / 30VDC
Max. Switching Voltage	250VAC 30VDC
Max. Switching Current	10A
Max. Switching Power	2500VA / 300W
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.100MΩ (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°C
Unit weight	≤6g

ORDERING INFORMATION

e.g

NRP05 - C -12D - H - G

① ② ③ ④ ⑤

① Part N Miniature p.c.b Relay

② Contact Form:
C=1C/O; A = N/O

③ Coil Voltage: 12D= 12Vdc

④ Nil= 0.45W coil power
H = 0.20W coil power, Sensitive

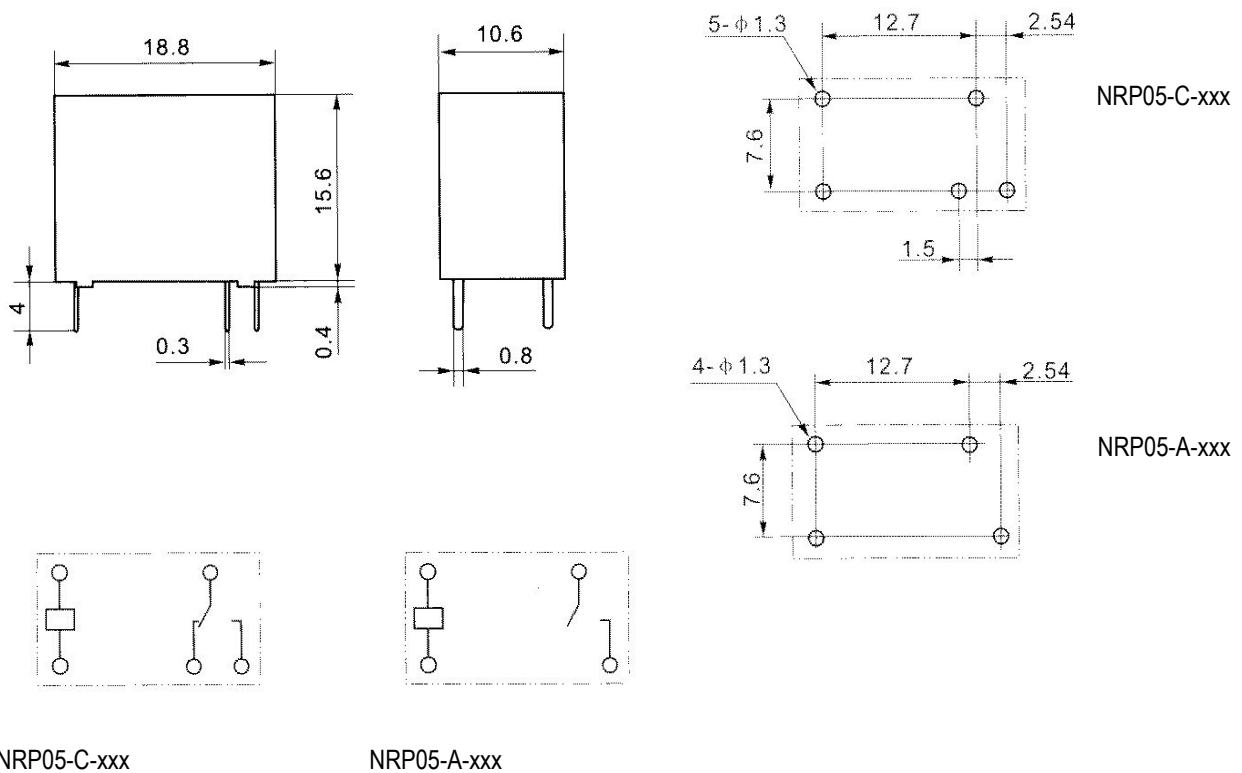
⑤ G = 10A contact capacity

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		
48	36.00	2.40	5120	11520		

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

DIMENSIONS & DIAGRAM Unit: mm



REFERENCE DATA

