

HRA Series

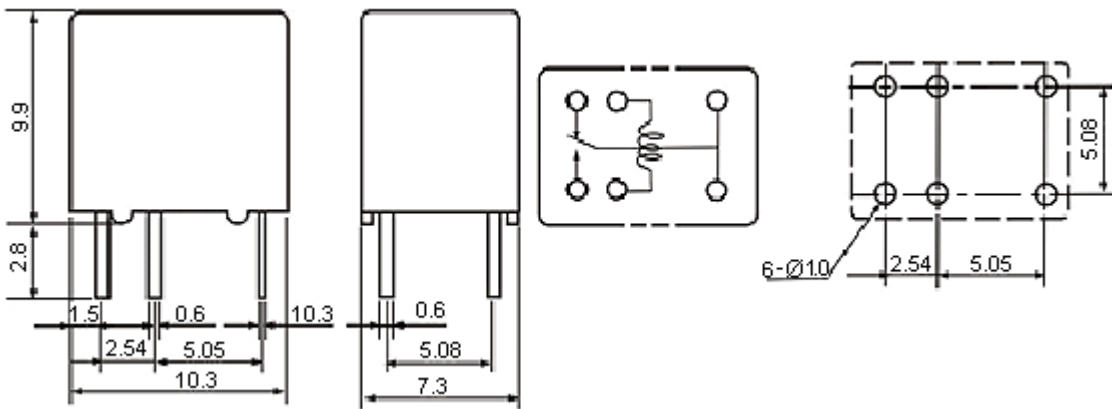
Subminiature PCB Relays



Features:

- SPCO series of relays.
- Small size and light weight.
- Plastic sealed (washable).
- DIL pitch terminal.

Dimensions



Dimensions : Millimetres

Specifications:

Contact Data

Contact arrangement	: SPCO (1 Form C).
Contact material	: AuAg.
Contact rating	: 1.0A at 24V dc/120V ac.
Maximum switching voltage	: 30V dc/120V ac.
Maximum switching current	: 2.0A.
Maximum switching power	: 120VA/30W.
Contact resistance	: 50mΩ.
Life expectancy	: Electrical : 100,000 operations. Mechanical : 10,000,000 operations.

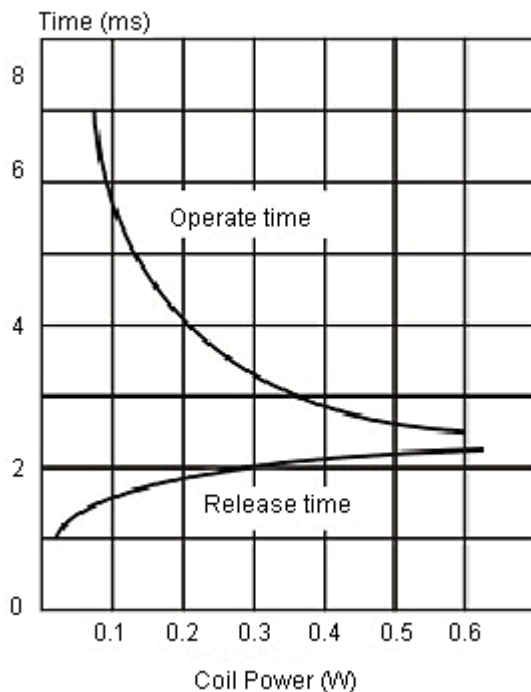
Specifications:

General Data

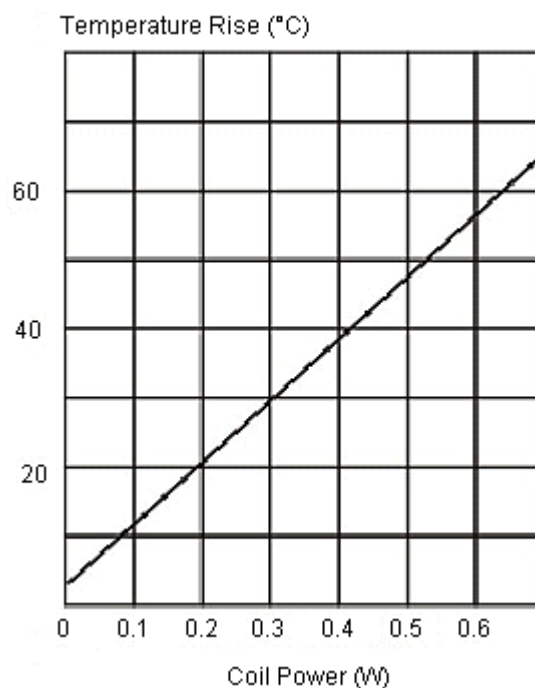
Insulation resistance	:	100M Ω .
Dielectric strength	:	500V ac 1 minute between open contacts. 1000V ac 1 minute, contacts to coil.
Operate time	:	6ms maximum.
Release time	:	4ms maximum.
Temperature range	:	-25 to +70°C.
Shock resistance	:	Endurance : 1000m/s ² Misoperation : 100m/s ² .
Vibration resistance	:	Endurance : 10 to 55Hz, 1.5mm Double Amplitude. Misoperation : 10 to 55Hz, 1.5mm Double Amplitude.
Heating	:	80 \pm 2°C 96 hours.
Cold	:	-40 \pm 2°C 96 hours.
Humidity	:	85%RH.

HRA(H) Characteristic Data:

Timing



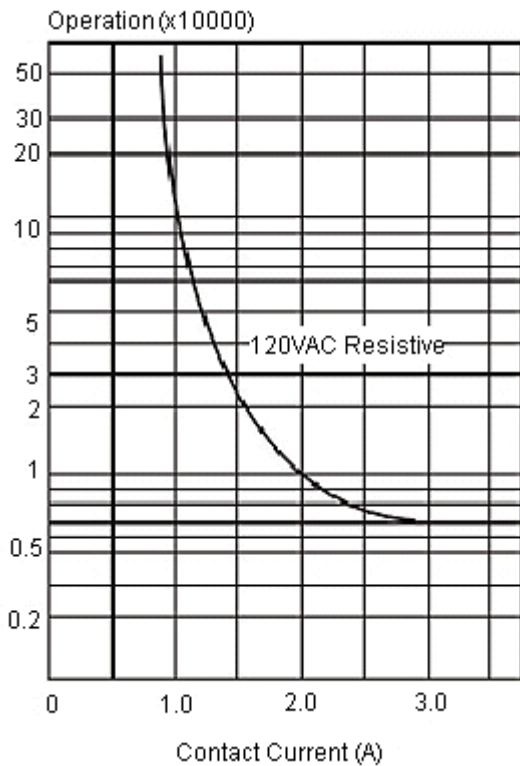
Coil Temperature Rise



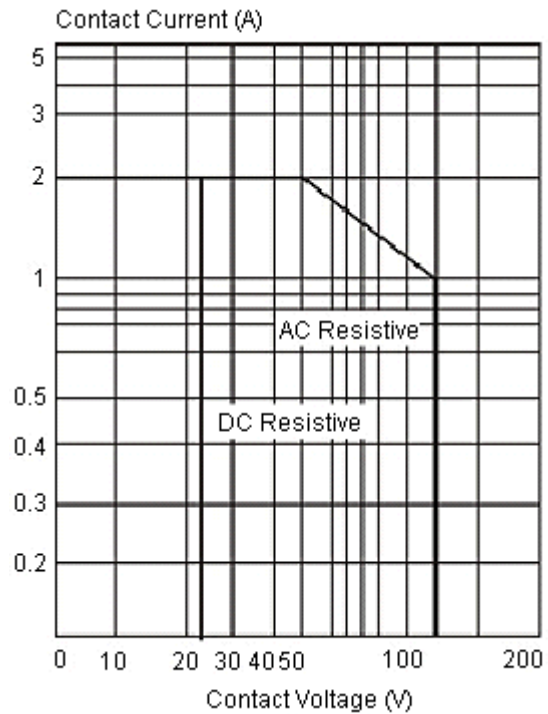
HRA Series

Subminiature PCB Relays

Life Curve



Maximum Switching Power

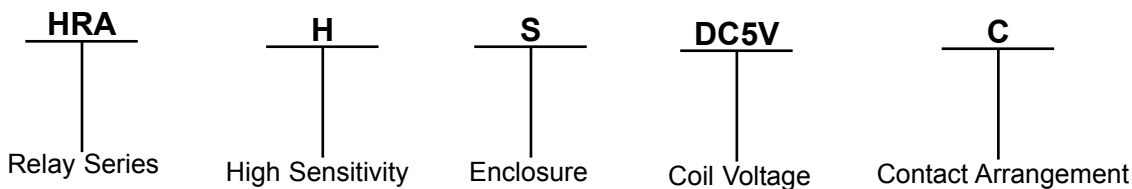


Coil Data Chart

At 20°C

Coil Voltage (V dc)	Coil Resistance (Ω)	Coil Operate Voltage (V dc)	Coil Release Voltage (V dc)	Coil Power Consumption (mW)	Contact Arrangement	Part Number
12	320	8.4	0.60	450	SPCO - 1 Form C	HRA-S-DC12V-C
24	1280	16.8	1.20			HRA-S-DC24V-C
5	75	3.5	0.25	330	SPCO - 1 Form C High Sensitivity	HRAH-S-DC5V-C
12	440	8.4	0.60			HRAH-S-DC12V-C
24	1560	16.8	1.20			380

Part Number Explanation:



- High Sensitivity : H = High Sensitivity and Nil = Standard.
- Enclosure : S = Washable.
- Coil Voltage : 5, 12 and 24V dc.
- Contact Arrangement : C = SPCO - 1 Form C.