

**HA1 Relay**

5A, 12A Switching capabilities

Subminiature,

Standard PC layout

**1. Contact Data**

Contact Form	1A(SPST)	1C(SPDT)
Contact Material	AgCdO	AgSnO
Contact Ratings	10A 240VAC 12A 120VAC / 24VDC	7A 240VAC 10A 120VAC / 24VDC
Max Switching Voltage	250VAC / 30VDC	
Max Switching Current	15A	
Max Switching Power	2,770VA / 240W	
Contact Resistance	100mΩ Max at 6VDC 1A	
Life Expectancy	Electrical	100,000 operations (at 30 operations / minute)
	Machanical	10,000,000 operations

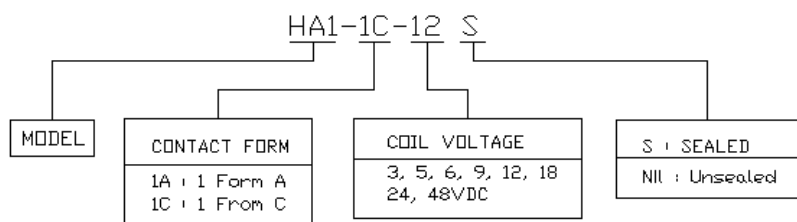
2. General Data

Insulation Resistance	100MΩ, Min at 500VDC	
Dielectric Strength Between	Open Contacts	750VAC (for one minute)
	Contacts and coil	1500VAC (for one minute)
Operate Time	10ms	
Release Time	5ms	
Temperature Range	Operating	-40°Cto+105°C
	Storage	-55°Cto+105°C
Shock Resistance	Malfunction	10G
	Destructuve	100G
Vibration Resistance	10-55Hz, 1.5mm	
Humidity	40 ~ 85%	
Dimensions (mm)	19 x 15.4 x 15.5	
Weight	Approx. 10g	
Safety Standard	<u>UL E197546</u>	
	<u>TUV R 50054834</u>	

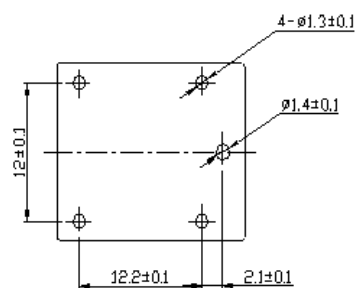
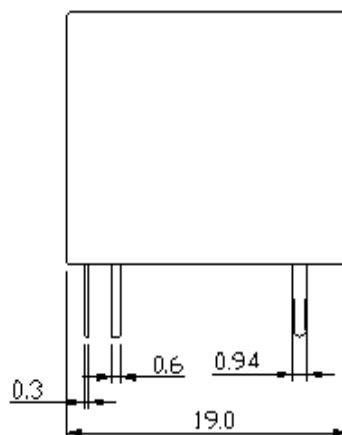
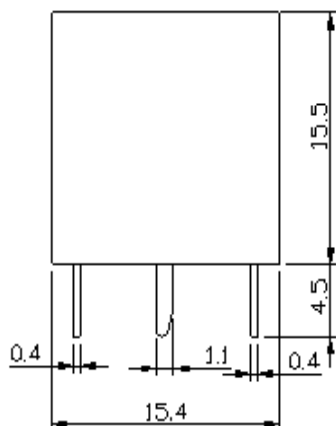
3. Coil Data

Nominal Voltage	Coil Resistance at 20Ω±10%		Max Operate Voltage	Min Release Voltage	Max Applicable Voltage
	0.36W	0.45W			
3	25Ω		2.25	0.3	3.9
5	70Ω		3.75	0.5	6.5
6	100Ω		4.5	0.6	7.8
9	225Ω		6.75	0.9	11.7
12	400Ω		9	1.2	15.6
18	900Ω		13.5	1.8	23.4
24	1,600Ω		18	2.4	31.2
48	6,400Ω±15%	5,100Ω±15%	36	4.8	62.4

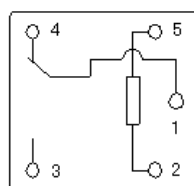
4. Ordering Code



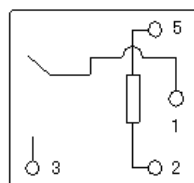
5. Overall And Mounting Dimensions



(Bottom View)



Form C



Form A