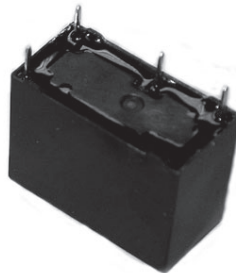




File No.:E198243



FEATURES

- 10A switching capability
- 1 Form A and 1 Form C configurations
- Subminiature, standard PCB layout
- Sealed Type, Dust Cover Type and Flux Free Type is available.
- Outline Dimensions:(20.5×10.2×15.3)mm
- UL Insulation System: Class F

CONTACT RATINGS

Contact Arrangement	1A	1C	
Contact Resistance	100mΩ (1A 24VDC)		
Contact Material	Silver Alloy		
Contact Rating(Resistive)	1A	1C	
		NO	NC
	5A/250VAC 5A/30VDC 10A/125VAC	5A/250VAC 5A/30VDC 10A/125VAC	3A/250VAC 3A/30VDC
Max. Switching Voltage	250VAC/30VDC		
Max. Switching Current	10A	3A	
Max. Switching Power	1250VA/150W	750VA/90W	
Mechanical Life	1×10 ⁷ operations		
Electrical Life	1×10 ⁵ operations (typical resistive load)		

CHARACTERISTICS

Insulation Resistance	1000MΩ (500VDC)	
Dielectric Strength	Between coil & contacts	4000VAC 1min
	Between open contacts	1000VAC 1min
Operate time (at nomi. volt.)	≤8ms	
Release time (at nomi. volt.)	≤5ms	
Humidity	35% ~ 95% RH	
Ambient temperature	-40°C ~ +70°C	
Shock Resistance	Functional	98m/s ²
	Destructive	980m/s ²
Vibration resistance	10Hz ~ 55Hz 1.6mm DA	
Unit weight	Approx. 7g	
Construction	Sealed Type, Dust Cover Type, Flux Free Type	

Notes:1) The data shown above are initial values.

2) Please find coil temperature curve in the characteristic curved below.

This datasheet is for customers' reference. All the specifications are subject to change without notice.

ORDERING INFORMATION

Model **HPR F 1A 12 -1 S - XXXX**

F:Class F

1A:1 Form A 1C:1 Form C

Coil Voltage

1:Dust Cover Type 2:Flux Free Type

Nil:Sealed Type

S:Sensitive type(Only for 1 Form A) Nil:Standard type

Customer code

COIL DATA

at 20°C

Standard Type

Nominal Voltage VDC	Pick-up Voltage (Max.) VDC	Drop-out Voltage (Min.) VDC	Max. Allowable Voltage VDC	Coil Resistance Ω±10%
3	2.25	0.15	3.9	20
5	3.75	0.25	6.5	55
6	4.50	0.30	7.8	80
9	6.75	0.45	11.7	180
12	9.00	0.60	15.6	320
18	13.5	0.90	23.4	720
24	18.0	1.20	31.2	1280

Sensitive Type(Only for 1 Form A)

Nominal Voltage VDC	Pick-up Voltage (Max.) VDC	Drop-out Voltage (Min.) VDC	Max. Allowable Voltage VDC	Coil Resistance Ω±10%
3	2.25	0.15	4.5	45
5	3.75	0.25	7.5	125
6	4.50	0.30	9.0	180
9	6.75	0.45	13.5	400
12	9.00	0.60	18.0	720
18	13.5	0.90	27.0	1600
24	18.0	1.20	36.0	2800



RELAYS

HPR SERIES

SPDT

10 Amp

COIL

Coil Power	Standard Type: 450mW
	Sensitive Type: 200mW

SAFETY APPROVAL RATINGS

UL&CUL	NO	5A/250VAC, 5A/30VDC, 10A/125VAC
	NC	3A/250VAC, 3A/30VDC

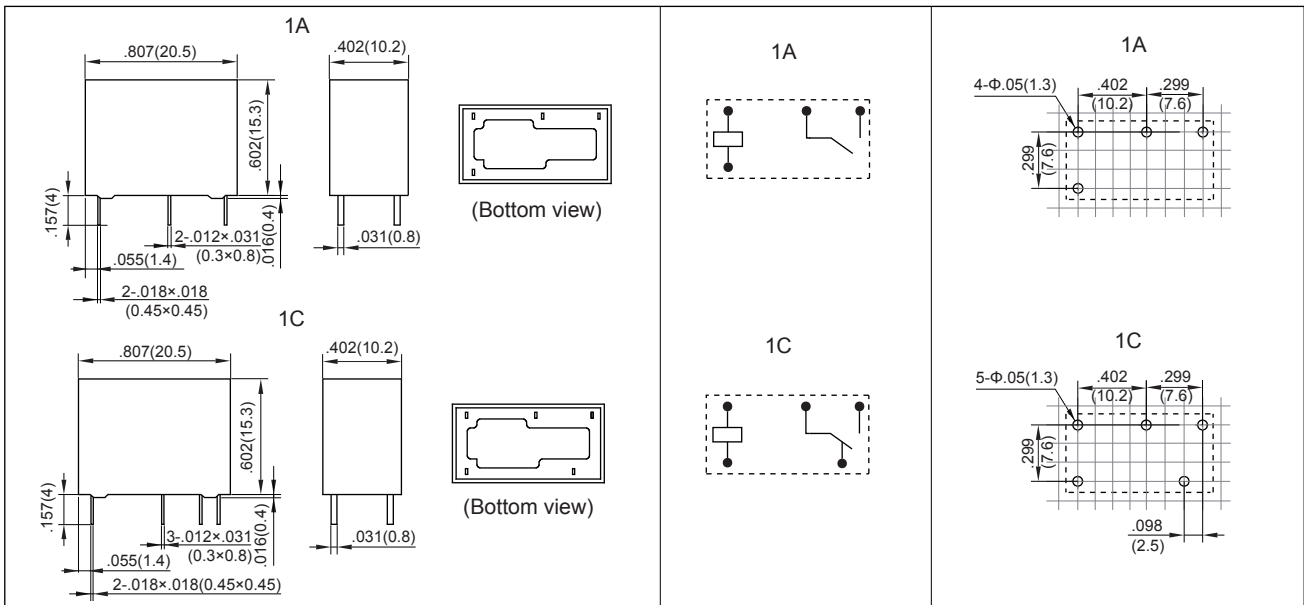
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT.

Unit: inch(mm)

Outline Dimensions

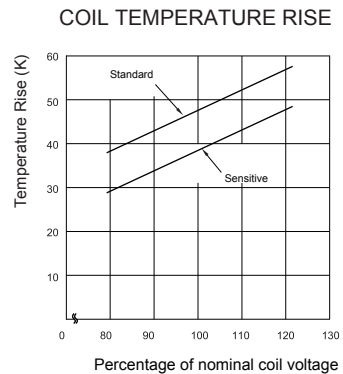
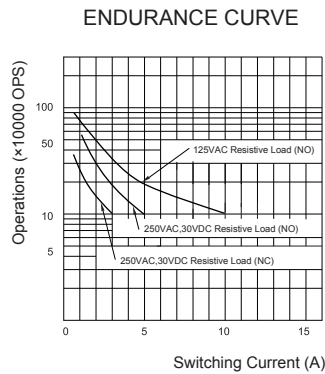
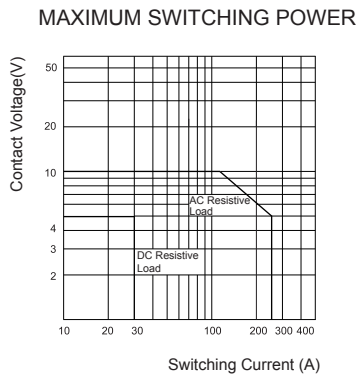
Wiring Diagram (Bottom view)

PCB Layout (Bottom view)



- Remark: 1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.
- 2) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.

CHARACTERISTIC CURVES



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RELAYS

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