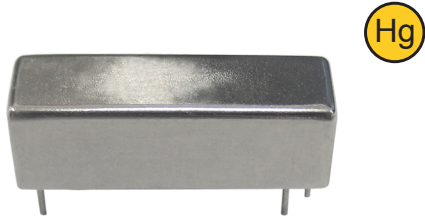


Part Number: HGSM Series
Single Side Stable Mercury (Hg) Relay - 1 Form C
Product Data Sheet

PICTURE



FEATURES

- 100W, 500V, 2A switching power
- Coil Voltages: 5, 12, 24 and 48
- Bounce-free operation
- Stable, low contact resistance over life
- Magnetically shielded
- FORM-D contacts also available, consult factory

ORDERING INFORMATION

Series	Form	Coil
HGSM-51111	1C	K00 = 05 P00 = 12 T00 = 24 V00 = 48

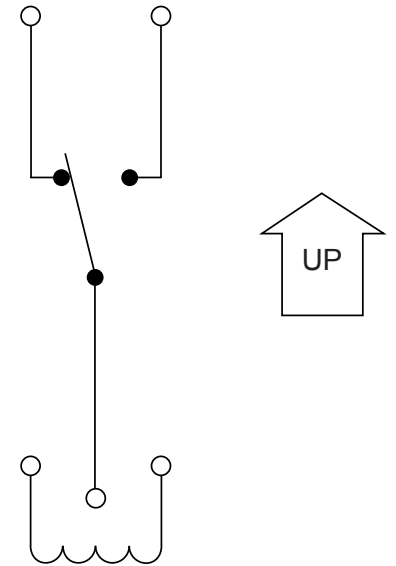
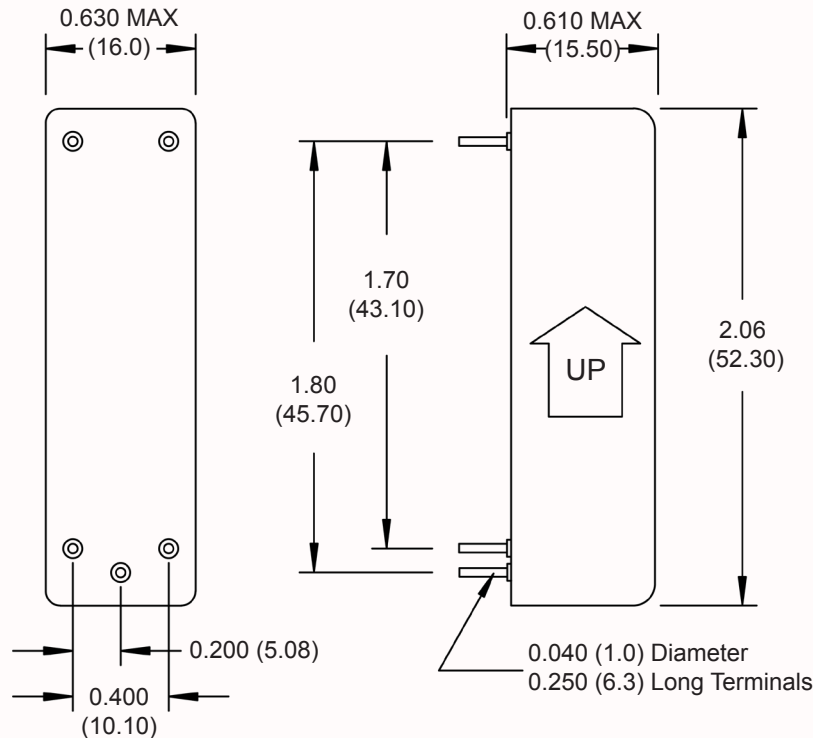
Part Number Example: HGSM-51111-XXX

HGSM-51111-V00 = HGSM-51111 with 48 volt coil

DIMENSIONS

SCHEMATIC

Drawings not to scale.
 All dimensions in inches (mm) nominal.



BOTTOM VIEW

As part of the company policy of continued product improvement, specifications may change without notice. Our sales office will be pleased to help you with the latest information on this product range and the details of our full design and manufacturing service. All products are supplied to our standard conditions of sale unless otherwise agreed in writing.

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Part Number: HGSM Series
Single Side Stable Mercury (Hg) Relay - 1 Form C
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COIL DATA (at 20 °C)					
PART NUMBER	NOMINAL COIL VOLTAGE (VDC)	NOMINAL COIL RESISTANCE ±10% (Ω)	MAX OPERATE VOLTAGE (VDC)	MIN RELEASE VOLTAGE (VDC)	MAX COIL VOLTAGE (VDC)
HGSM-51111-K00	5	140	2.3	0.46	16
HGSM-51111-P00	12	940	6	1.2	41
HGSM-51111-T00	24	3620	12	2.41	80
HGSM-51111-V00	48	8600	19	3.8	122

CONTACT RATING	
Max Switching Power	100 W
Max Switching Voltage	500 VDC
Max Switching Current	2 A
Max Carry Current	5 A

SPECIFICATION	
Contact Resistance (Max)	30 mΩ
Operate Time - no bounce (Max)	1.25 ms (At Nominal Voltage)
Transfer Time (Max)	0.5 ms
Release Time (Max)	1.25 ms
Insulation Resistance @ 100V, 20°C, 40% RH (Min)	10 ⁹ Ω
Dielectric Strength (Min)	Between Open Contacts 1400 VDC / peak AC Between Coil to Contacts 1400 VDC / peak AC
Capacitance Between Open Contacts / Contacts to Coil (Max)	4 pF / 10 pF
Vibration (Survival)	5 Gs
Shock Resistance (Survival)	30 Gs
Operating Temperature	-38° to +85°C
Storage Temperature	-40° to +105°C
Life Expectancy at Specified Load (Typical)	2000 x 10 ⁶ ops (1 VDC, 10mA)
Contact Material / Content	Hg / 0.32 grams
Relay Weight (Typical)	12.5 grams

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