



Features

- Meet UL Tungsten TV-5 rating.
- 2 Form A contact arrangements
- Meet UL, CSA, SEMKO and SEV requirements.
- Meet 4,000V dielectric voltage between coil and contacts.
- Meet 10,000V surge voltage between coil and contacts (1.2 / 50μs).

Contact Data @ 20°C

Arrangements: 2 Form A (DPST-NO).

Material: AgSnO.

Max. Switching Rate: 300 ops./min. (no load).

30 ops./min. (rated load).

Expected Mechanical Life: 10 million operations (no load). **Expected Electrical Life:** 100,000 operations (rated load).

Minimum Load: 100mA @ 5VDC.

Initial Contact Resistance: 100 milliohms @ 1A, 6VDC.

Contact Ratings

Ratings: 5A @ 250VAC resistive, 100,000ops.

8A @ 250VDC resistive, 50,000ops. TV-5 @ 120VAC Tungsten, 25,000ops.

Max. Switched Voltage: AC: 277V. DC: 30V. Max. Switched Current: 10A.

Max. Switched Power: 1,250VA, 380W.

Initial Dielectric Strength

Between Open Contacts: 1,000VAC 50/60 Hz. (1 minute). Between Coil and Contacts: 4,000VAC 50/60 Hz. (1 minute). Surge Voltage Between Coil and Contacts: 10,000V (1.2 / 50 μ s). Surge Voltage Between Contact and other Pole: 6,000V (1.2 / 50 μ s).

Initial Insulation Resistance

Between Mutually Insulated Elements: 1,000M ohms min. @ 500VDCM.

Coil Data

Voltage: 3 to 48VDC. **Nominal Power:** 540 mW

Coil Temperature Rise: 50°C max., at rated coil voltage.

Max. Coil Power: 130% of nominal.

Duty Cycle: Continuous.

PCG series

2 Pole Miniature Power PC Board Relay

Appliances, Audio Equipment, Office Machines

A1 UL File No. E82292

(S) CSA File No. LR48471

S SEMKO File No. 8744066

s) SEV File No. 98110096

Coil Data @ 20°C

PCG										
Rated Coil Voltage (VDC)	Nominal Current (mA)	Coil Resistance (ohms) ± 10%	Must Operate Voltage (VDC)	Must Release Voltage (VDC)						
3	176.5	17	2.40	0.15						
5	106.4	47	4.00	0.25						
6	88.0	68	4.80	0.30						
9	58.0	155	7.20	0.45						
12	44.4	270	9.60	0.60						
24	21.8	1,100	19.20	1.20						
48	11.0	4,400	38.40	2.40						

Operate Data

Must Operate Voltage: 80% of nominal voltage or less. Must Release Voltage: 5% of nominal voltage or more.

Operate Time: 15 ms max. Release Time: 5 ms max.

Environmental Data

Temperature Range:

Operating:-30°C to +70°C

Vibration, Mechanical: 10 to 55 Hz., 1.5mm double amplitude Operational: 10 to 55 Hz., 1.5mm double amplitude.

Shock, Mechanical: 1,000m/s² (100G approximately).

Operational: 100m/s² (10G approximately).

Operating Humidity: 20 to 85% RH. (Non-condensing).

Mechanical Data

Termination: Printed circuit terminals.

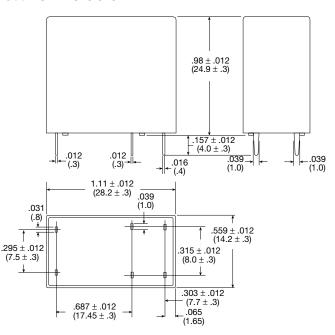
Enclosure (94V-0 Flammability Ratings):
PCG-N: Vented (Flux-tight) snap-on cover.

Weight: 0.63 oz (18g) approximately.

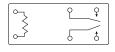
Ordering Inforr	nation								
	Тур	oical Part Number 🕨	PCG	-2	24	D	2	M	N
1. Basic Series: PCG = Miniatur	e Power PC board	relay.							
2. Termination: 2 = 2 pole.									
3. Coil Voltage: 03 = 3VDC 05 = 5VDC	06 = 6VDC 09 = 9VDC	12 = 12VDC 24 = 24VDC	48 = 48VDC		,				
4. Coil Input: D = Standard									
5. Contact Mater 2 = AgSnO	ial:								
6. Contact Arran M = 2 Form A,									
7. Contact Rating N = Vented (Flu	ງ: ux-tight)* snap-on c	cover.							

^{*} Not suitable for immersion cleaning processes.

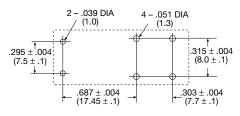
Outline Dimensions



Wiring Diagram (Bottom View)



PC Board Layout (Bottom View)



Reference Data

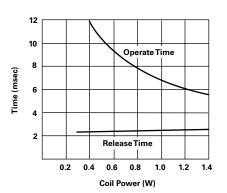
Coil Temperature Rise

60 50 40 Temp. Rise (°C) 30 20 10

0.3 0.4 0.5 0.6 0.7

Coil Power (W)

Operate Time



Life Expectancy

