

INTRODUCTION:

Adam Tech RPS relays are modern PCB low power relays. Sometimes known as 'Sugar Cube' relays, these small relays can switch loads up to 10 amps. They are available in 1 form A, and 1 form C contact formats within a sealed package. These relays are popular in applications such as small appliances, vending machines, and office equipment.

FEATURES:

10 Amp switching capability
Power consumption of 360mW
Sealed construction.

SPECIFICATIONS:

ELECTRICAL:

Contact arrangement: 1 Form A & 1 Form C
Contact material: Silver Alloy
Contact Rating (Resistive load): 7A and 10A @ 250V AC
10A @ 30V DC
Max. Switching Voltage: 250V AC / 30V DC
Max. Switching Power: 2500VA / 300W
Contact resistance: 50 mΩ max. Initial
Insulation resistance: 100 MΩ min. @ 500V DC
Dielectric withstanding voltage:
Between Coil & Contact: 1500V AC 50/60Hz for 1 min.
Between Contacts: 1000V AC 50/60Hz for 1 min.
Operating time: 10 ms max.
Release time: 5 ms max.
Electrical Life: 100,000 Operations (at rated load)

MECHANICAL:

Vibration resistance (Endurance): 1.5mm Double Amplitude 10-55Hz
Shock resistance: 10G min.
Mechanical Life: 10,000,000 Operations (no load)

TEMPERATURE RATING:

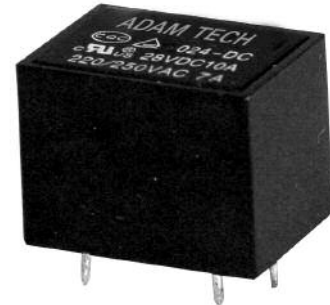
Ambient temperature: -40°C to +85°C

PACKAGING:

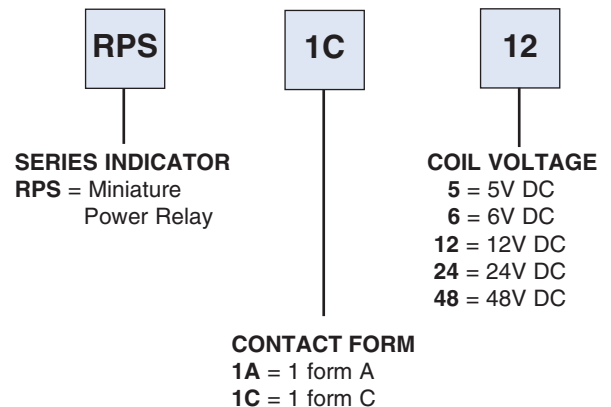
Anti-ESD plastic trays or tubes

SAFETY AGENCY APPROVALS:

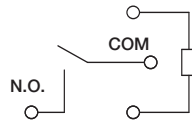
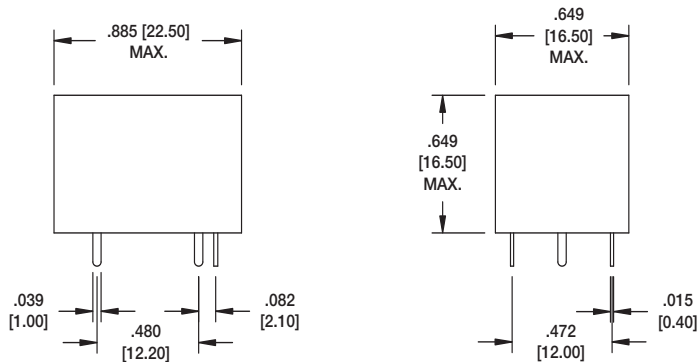
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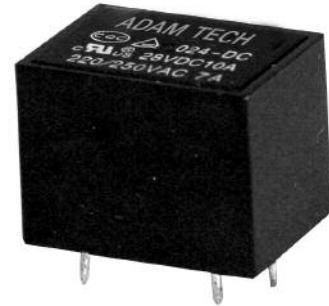
ORDERING INFORMATION MINIATURE POWER RELAY



RPS-1A-X



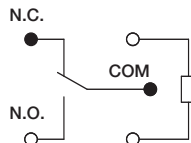
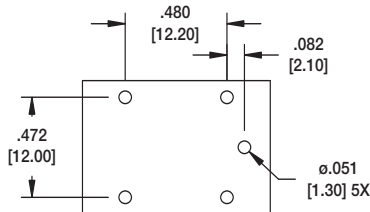
Schematic
1 Form A



RPS-1A-24

Recommended PCB Layout
1 Form A

RPS-1C-X



Schematic
1 Form C

Recommended PCB Layout
1 Form C

Nominal Voltage V DC	Pick-up Voltage V DC (max.)	Drop-out Voltage V DC (min.)	Nominal Operating Current mA (±10%)	Coil Resistance (±10%)	Nominal Operating Power mW	Max allowable Voltage V DC
5	3.5	0.5	72	69.4	360	130%V of nominal Voltage
6	4.2	0.6	60	100		
12	8.4	1.2	30	400		
24	16.8	2.4	15	1,600		
48	33.6	4.8	7.5	6,400		