

### INTRODUCTION:

Adam Tech RT1 relays are modern, low profile, signal level relays offered in an ultra small package with SMT terminals and are available with coil voltages from 5-48VDC. These 2 form C relays are designed for all low signal applications such as test equipment, security equipment and medical equipment.

### FEATURES:

- 1 Amp switching capability
- Low profile .192" (4.9mm)
- Low coil power of 140mw
- Tape and Reel packaging

### SPECIFICATIONS:

#### Electrical:

- Contact arrangement: 2 Form C
- Contact material: Gold clad, Silver alloy
- Contact Rating (Resistive load): 0.5A @ 125V AC  
1A @ 30V DC
- Max. Switching Voltage: 120V AC / 30V DC
- Max. Switching Power: 62VA / 30W
- Contact resistance: 100 mΩ max. Initial
- Insulation resistance: 100 MΩ min. @ 500V DC
- Dielectric withstanding voltage:
  - Between Coil & Contact: 500V AC 50/60Hz for 1 min.
  - Between Contacts: 1000V AC 50/60Hz for 1 min.
- Operating time: 6 ms max.
- Release time: 4 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 tubes

### SAFETY AGENCY APPROVALS:

cUL Recognized File No. E305638



## ORDERING INFORMATION

### LOW PROFILE SMT SIGNAL RELAY

**RT1**

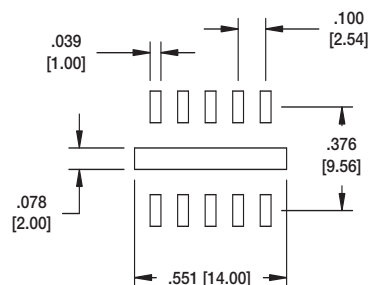
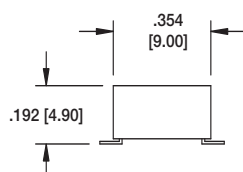
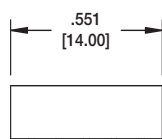
**SERIES INDICATOR**  
RT1 = Low Profile  
SMT Signal  
Relay

**12**

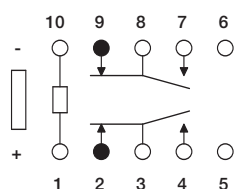
**COIL VOLTAGE**  
5 = 5V DC  
6 = 6V DC  
12 = 12V DC  
24 = 24V DC  
48 = 48V DC



### RT1 SERIES



Recommended PCB Layout



SCHEMATIC



RT1-5

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	3.75	0.5	28.1	178	140	7.5
6	4.5	0.6	23.3	257	140	9
12	9	1.2	11.7	1,028	140	18
24	18	2.4	8.3	2,880	200	36
48	36	4.8	6.3	7,680	300	57.6