

INTRODUCTION:

Adam Tech RPG relays are miniature high power relays that have 16 amp switching capability and coil voltage ratings up to 110V DC. Availability of contact forms 1A, 1B, 1C, 2A, 2B and 2C make these relays extremely versatile in a wide range of applications. These power relays are available in a sealed option and are manufactured with class F 155°C insulation material

FEATURES:

8 Amp & 16 Amp Switching capabilities
Power consumption of 400mW nominal
Sealed construction

SPECIFICATIONS:

Electrical:

Contact arrangement: 1A, 1B, 1C, 2A, 2B, & 2C
Contact material: Silver Alloy
Contact Rating (Resistive load): 1A, 1B, & 1C: 12A/16A 250 VAC, 2A, 2B & 2C: 8A 250 VAC
Contact resistance: 50 mΩ max. Initial
Insulation resistance: 1000 MΩ min. @ 500V DC
Dielectric withstanding voltage:
Between Coil & Contact: 5000V AC 50/60Hz for 1 min.
Between Contacts: 1000V AC 50/60Hz for 1 min.
Operating time: 15 ms max.
Release time: 8 ms max.
Electrical Life: 100,000 Operations (at rated load)

Mechanical:

Vibration resistance (Endurance): 1.65mm Double Amplitude
10-55Hz
Shock resistance: 10G min.
Mechanical Life: 10,000,000 Operations (no load)

Temperature Rating:

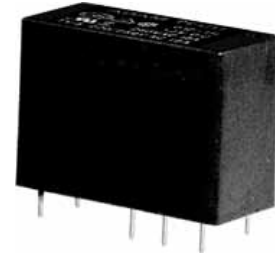
Ambient temperature: -40°C to +85°C (DC)
-40°C to +65°C (AC)

PACKAGING:

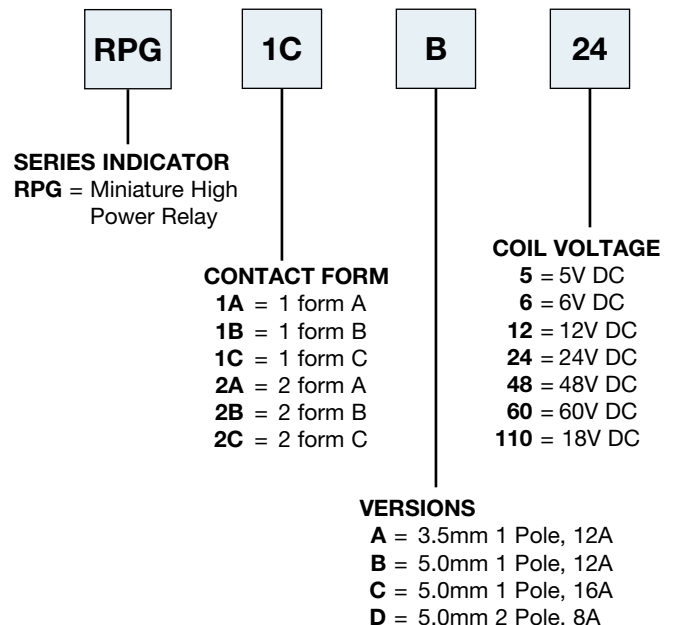
Anti-ESD plastic trays

SAFETY AGENCY APPROVALS:

UL Recognized & CSA Certified, File no. E305638



ORDERING INFORMATION



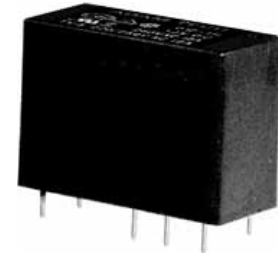
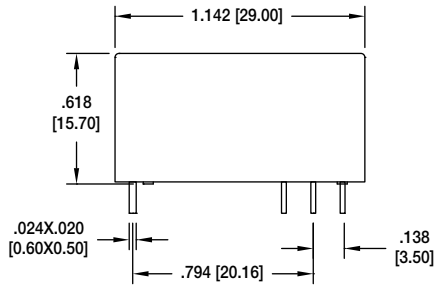
OPTION

Add designator(s) to end of part number
F = Class F 155°C
S = Sealed



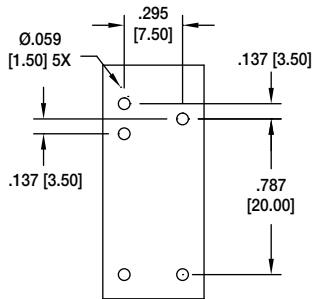
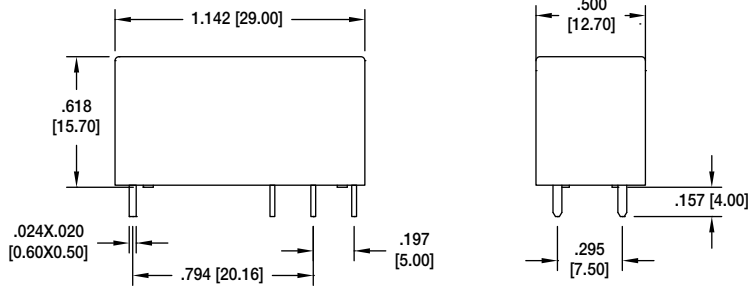
RPG SERIES

3.5mm
FOOTPRINT

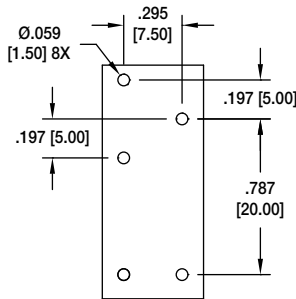


RPG-IC-C-12

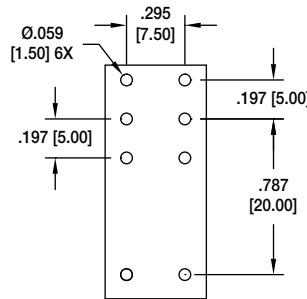
5.0mm
FOOTPRINT



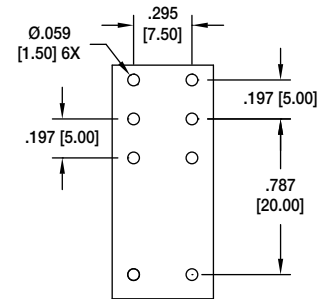
Recommended
PCB Layout
3.5mm 1P (12A)



Recommended
PCB Layout
5.0mm 1P (12A)



Recommended
PCB Layout
5.0mm 1P (16A)



Recommended
PCB Layout
5.0mm 2P (8A)

3.5mm/5.0mm Version 1 POLE 12A

5.0mm Version 1 POLE 16A

5.0mm Version 2 POLE 8A

1 Form A

1 Form B

1 Form C

1 Form A

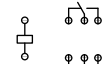
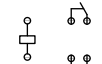
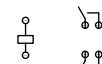
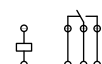
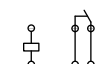
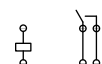
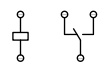
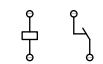
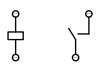
1 Form B

1 Form C

2 Form A

2 Form B

2 Form C



Nominal Voltage V DC	Pick-up Voltage V DC (max.)	Drop-out Voltage V DC (min.)	Coil Current (@ 20°C) mA	Coil Resistance Ω (±10%)	Nominal Coil Operating Power mW
5	3.5	0.5	80.0	62	400
6	4.2	0.6	66.7	90	
12	8.4	1.2	33.3	360	
24	16.8	2.4	16.7	1,440	
48	33.60	4.8	8.3	5,760	
60	42.0	6.0	8.0	7,500	
110	77.0	11.0	4.3	25,200	