20 Amp Subminiature PCB Power Relay — PC521



FEATURES

- 20 A at 125 VAC and 16 A at 277 VAC Contact Rating
- 1 HP at 125 VAC and 250 VAC
- TV8 Rated at 125 VAC
- Class “B” Insulation Standard
- Maximum Switching Power 560 W, 4450 VA
- Popular “Sugar Cube” Footprint
- Sealed, Immersion Cleanable
- Lead Free and RoHS Compliant

c UL us E93379

Contact	Normally Open	Normally Closed
Inductive Load	1 HP (16 FLA) at 125 VAC 1 HP (8 FLA) at 250 VAC	1/2 HP (9.8 FLA) at 125 VAC 1/2 HP (4.9 FLA) at 250 VAC
Resistive Load	20 A at 125 VAC 100K Cycles	20 A at 125 VAC 30K Cycles
Tungsten Load	TV-8 at 125 VAC	TV-8 at 125 VAC
General Purpose	16 A at 277 VAC, 10 A at 250 VDC 85C 20K Cycles	
Max. Switching Power	560 W, 4450 VA	
Max. Switching Voltage	110 VDC, 380 VAC	
Max. Switching Current	20 A	

CONTACT DATA

Material		$AgCdO$, $AgSnO_2$, $AgSnO_2$ + Gold Plate
Initial Contact Resistance		100 milliohms max @ 0.1 A, 6 VDC
Service Life	Mechanical	1 X 10^7 Operations
	Electrical	1 X 10^5 Operations

CHARACTERISTICS

Operate Time	Less than 10 ms
Release Time	Less than 5 ms
Insulation Resistance	1,000 megohms min, at 500 VDC, 50% RH
Dielectric Strength	3000 Vrms, 1 min. between coil and contacts 1000 Vrms, 1 min. between open contacts
Shock Resistance	10 g, 11 ms, functional; 100 g, destructive
Vibration Resistance	DA 1.5 mm, 10 - 55 Hz
Power Consumption	.36 W & .45 W

Terminal Strength	10N
Solderability	235 °C for 3 seconds
Operating Temperature Class F	- 40 to 105°C
Operating Temperature Class B	- 40 to 85°C
Storage Temperature	- 40°C to 155°C
Relative Humidity	85% at 40°C
Weight	10 grams

ORDERING INFORMATION

Example: PC521 -1A -12 S -T -X D

Model: **PC521**

Contact Form: **1A**, **1B**, **1C**

Coil Voltage: **3, 6, 9, 12, 24, 48**

Enclosure: **S**: Sealed; **C:** Dust Cover

Coil Sensitivity: **Nil**: 360 mW; **45**: 450 mW

Insulation System: **Nil**: Class F (155C); **B**: Class B (130C)

Contact Material: **Nil**: AgCdO;**T**: $AgSnO_2$; **G**: $AgSnO_2$ + Gold Plate

RoHS Compliant: **-X**

Dual Pin: **D**

Box Quantity: 2000; Inner Box: 1000

3220 Commander Drive, Suite 102 Carrollton, TX 75006
Sales: (972) 713-6272 (888) 997-3933 Fax: (972)735-0964
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e-mail: sales@pickercomponents.com

Dimensions are listed for reference purposes only.

Specifications and Availability subject to change without notice.

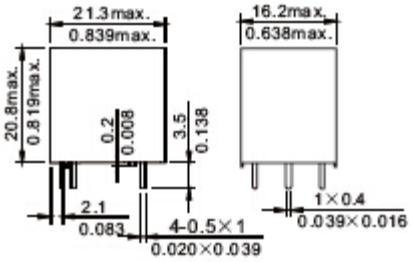
COIL DATA

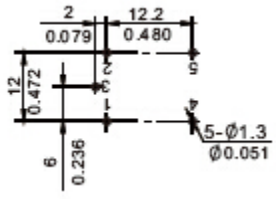
Coil Voltage (VDC)		Coil Power Resistance ohms ± 10%		Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)
Rated	Max	360 mW	450 mW		
3	3.9	25	20	2.25	0.3
6	7.8	100	80	4.50	0.6
9	11.7	225	180	6.75	0.9
12	15.6	400	320	9.00	1.2
24	31.2	1600	1280	18.0	2.4
48	62.4	6400	5120	36.0	4.8

NOTES:

The use of any coil voltage less that the rated voltage will compromise the operation of the relays. Must Operate Voltage is listed for test purposes only and is not to be used as design criteria. Pickup and release voltages are for test purposes only and are not to be used as design criteria.
Dimensions are in mm, Inches are listed for reference only.

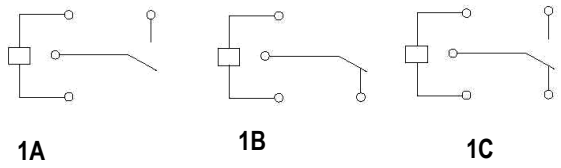
DIMENSIONS (mm/inches)





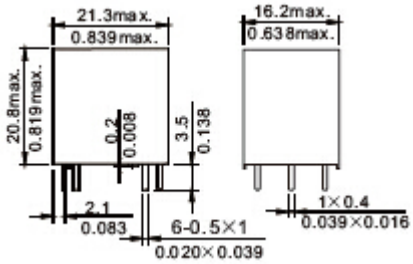
Mounting

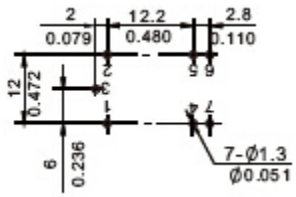
(Bottom View)



Wire Diagrams

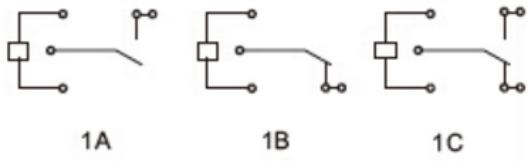
Bottom View





Mounting

(Bottom View)



Wire Diagrams

Dual Pins

Bottom View

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