

20 Amp Subminiature PCB Power Relay

PC521



UL US E160644

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	

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

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
Model:	PC521					
Terminals:	Nil: Single Pins; D: Double Pins D1: Double Pins (without Pin 7)					
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					

Box Quantity: 2000; Inner Box: 1000

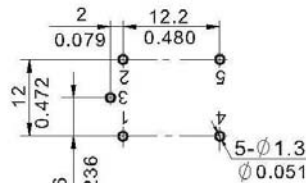
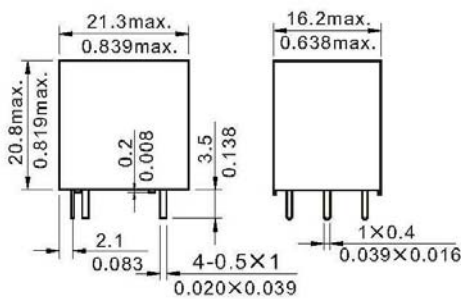
COIL DATA

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

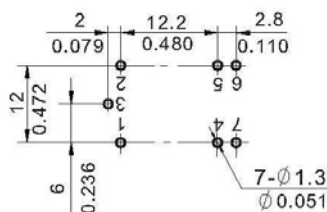
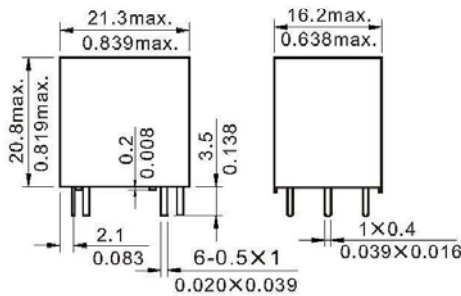
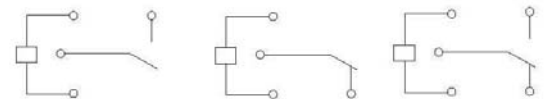
NOTES:

The use of any coil voltage less than 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.

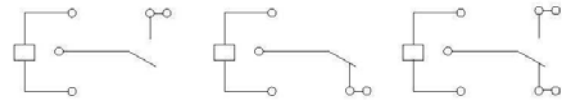
DIMENSIONS (mm/inches)



Nil-Single Pins



D-Double Pins (D1 without Pin 7)



Dimensions

Mounting(Bottom view)

Wiring diagram (Bottom view)



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