

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

UL / CUL Ratings

C	TAL US	E93379
	Normall	y Closed

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			
Designation Lead	20 A at 125 VAC 100K Cycles	20 A at 125 VAC			
Resistive Load	16 A at 250 VAC 105°C 100k Cycles	30K Cycles			
Tungsten Load	TV-8 at 125 VAC				
General Purpose	16 A at 277 VAC 10 A at 250 VAC 85C 20K Cycles				
Max. Switching Power	560 W, 4450 VA				
Max. Switching Voltage	110 VAC, 380 VAC				
Max. Switching Current	20 A				

CHARACTERISTICS

Operate Time	Less than 10 ms		
Release Time	Less than 5 ms		
Insulation Resistance	1,000 megaohms min @ 500 VDC, 50% RH		
Dielectric Strength	3,000 Vrms, 1 min. between coil and contacts		
Diciocato Caroligat	1,000 Vrms, 1 min. between open contacts		
Shock Resistance	10 g, 11 ms, functional; 100 g, destructive		

CROSS REFERENCES

Song Chuan:	215/215HT series
Example:	215H-1AH-F-C-12VDC crosses to PC521-1A-12S1-T-X

CONTACT DATA

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

CHARACTERISTICS CONT.

Vibration Resistance	DA 1.5 mm, 10 - 55 Hz
Power Consumption	0.36 W & 0.45 W
Terminal Strength	10N
Solderability	260°C for 5 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

OUDFUING IM	ORIVIATION			_	_				
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;	S1 : Flux	Tight ⁽¹⁾						
Coil Sensitivity:	Nil: 360 mW; 45: 450 mW								
Insulation System:	Nil: Class F (155C); B: Clas	s B (130	C)						
Contact Material:	Nil: AgCdO; T: AgSnO ₂ ; G*:	AgSnO ₂	+ Gold	Plate		_			
RoHS Compliant:	-X								
Dual Pin:	D								

Box Quantity: 2000; Inner Box: 1000

- Flux Tight relays are constructed such that Flux will not enter the relay in an automated soldering process, they are NOT Suitable for water wash cleaning
- *30,000 piece minimum order may apply Contact Factory



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Sales: (763) 535-2339

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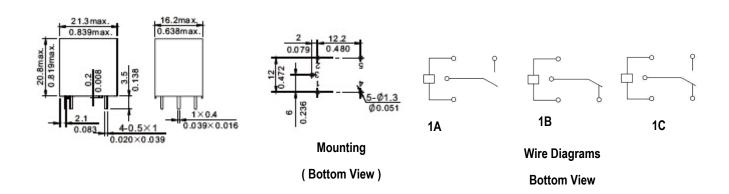
COIL DATA

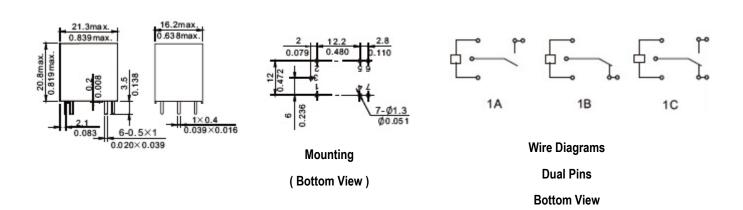
Coil Voltage (VDC)		Coil F	Power	Must Operate	Must Release Voltage Min. (VDC)	
		Resistance (ohms ± 10%	Voltage Max.		
Rated	Max	360 mW 450 mW		(VDC)		
3	3.9	25	20	2.25	0.3	
6	7.8	100	80	4.50	0.6	
9	11.7	225	180	6.75	0.9	
12	15.6	400	320	9.00	1.2	
24	31.2	1,600	1,280	18.0	2.4	
48	62.4	6,400	5,120	36.0	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 (mm/inches)





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