

20 Amp Subminiature PCB Power Relay



UL / CUL Rat	ings o	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				
	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	
Shock Resistance	10 g, 11 ms, functional; 100 g, destructive	

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;	S1: Flux	Tight ⁽¹⁾					
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

(1) 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

(2) *30,000 piece minimum order may apply - Contact Factory

PICKER²⁰⁵⁵⁰ Commerce Blvd, Rogers, MN 55374 USA Sales: (763) 535-2339

Dimensions are listed for reference purposes only. PC521 Rev F 11/2022

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

CROSS REFERENCES

Song Chuan: 215/215HT series

Example:	215H-1AH-F-C-12VDC crosses to PC521-1A-12S1-T-X
Example.	2131-1711-1-0-12 000 003363 101 0321-17-1201-1-7

CONTACT DATA

Material		AgCdO, AgSnOInO, AgSnOInO + 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 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

www.PickerComponents.com e-mail: sales@pickercomponents.com Specifications and Availability subject to change without notice.

COIL DATA

Coil Voltage		Coil F	ower	Must Operate	Must Release	
(VDC)		Resistance	<u>ohms ± 10%</u>	Voltage Max.	Voltage Min.	
Rated	Max	360 mW	450 mW	(VDC)	(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)



20550 Commerce Blvd, Rogers, MN 55374 USA Sales: (763) 535-2339 Dimensions are listed for reference purposes only. PC521 Rev F 11/2022