

10 Amp & 20 Amp Subminiature PCB Relay PC236



FEATURES

- Subminiature Design
- 10 Amps at 120 VAC, 20 Amps at 14 VDC
- 1/2 HP at 125 VAC
- TV-5 Rating
- Designed for Automotive and Power Applications
- RoHS Compliant

UL / CUL Ratings



Contact Form	1 Form C	
	NO	NC
Contact Rating Resistive Load	20 A @ 14 VDC	10 A @ 14 VDC
	10 A @ 120 VAC	_____
Motor Load	1/2 HP 125 VAC	
TV Rating (25K Cycles)	TV-5 (50 A Inrush Current a 120 VAC)	
Minimum Load	0.1 A @ 12 VDC	

CROSS REFERENCE

Fujitsu: FBR51, FBR52 Series
Example: FBR52ND12-W1 Crosses to PC236-12S-X
Panasonic: JJ-M and CQ1 Series
Example: JJM1-12V Crosses to PC236-12S-X
Song Chuan: 895 series
Example: 895-2A-S-12VDC Crosses to PC236-12S-X
American Zettler: AZ9471 series
Example: AZ9471-1C-12DEA Crosses to PC236-12S-X

***** FOR AUTOMOTIVE APPLICATIONS*****

CONTACT RATINGS 14 VDC at 25°C

Contact Form	1 Form C	
	NO	NC
Max Switching Current	Make 60 A	Make 45 A
	Break 20 A	Break 15 A
Max Continuous Current	20 A @ 25° C	15 A @ 25° C
	15 A @ 85° C	11.3 A @ 85° C
Max Continuous Current 1 Form U	2 X 10 Amps	
Max. Switching Power	420 W 1,250 VA	
Max. Switching Voltage	42 VDC 380 VAC	
Minimum Load	0.1 A @ 12 VDC	

CONTACT RATINGS 28 VDC at 25°C

Contact Form	1 Form C	
	NO	NC
Max Switching Current	Make 30 A	Make 22.5 A
	Break 10 A	Break 7.5 A
Max Continuous Current	10 A @ 25° C	7.5 A @ 25° C
	7.5 A @ 85° C	5.6 A @ 85° C
Max Continuous Current 1 Form U	2 X 5 Amps	
Max. Switching Power	420 W 1,250 VA	
Max. Switching Voltage	42 VDC 380 VAC	
Minimum Load	0.1 A @ 12 VDC	

ORDERING INFORMATION

Example:	PC236	-1C	-12	S	0.8	F	-X
Model:	PC236						
Contact Form:	1C, 1U						
Coil Voltage:	6, 9, 12, 24						
Contact Material:	Nil: AgSnO₂; Cd: AgCdO						
Enclosure:	S: Sealed; C: Dust Cover						
Coil Power:	Nil: 0.6 W; 0.8: 0.8 W						
Insulation System:	Nil: Class B (125°C); F: Class F (155°C)						
RoHS Compliant:	-X						

Box Quantity 2000: Inner Box 1000

COIL DATA

Coil Voltage		Coil Power		Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)
		Resistance ohms ± 10%			
Rated	Max	600 mW (Standard)	800 mW (Large Gap)		
6	6.6	60	45	4.5	0.30
9	9.9	135	100	7.2	0.45
12	13.2	240	180	9.6	0.60
24	26.4	960	720	19.2	1.20

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.

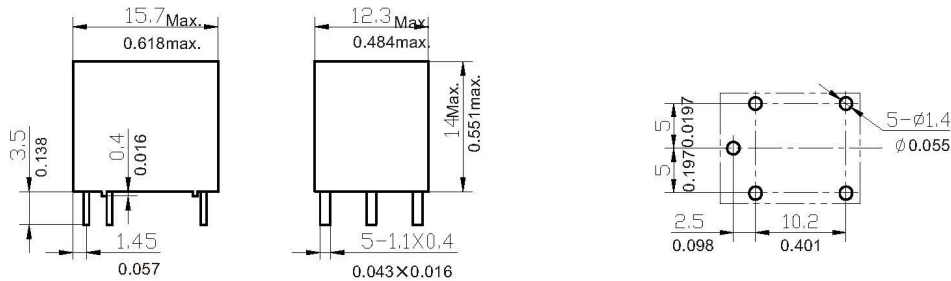
CHARACTERISTICS

Operate Time	10 ms Max.
Release Time	5 ms Max.
Insulation Resistance	100 MΩ Min at 500VDC
Dielectric Strength	50Hz 500 V Between Contacts
	50Hz 500 V Between Contact and Coil
Terminal Strength	10 N
Power Consumption	0.6 W, 0.8 W
Shock Resistance	100 m/s ² 11ms
Vibration Resistance	10 Hz - 55 Hz Double Amplitude 1.5 mm
Solderability	235°C ± 2°C 3 s ± 0.5 s
Operating Temperature	- 40 to 85° C
Storage Temperature	- 40 to 100° C
Relative Humidity	85% at 20° C
Weight	6 grams

CONTACT DATA

Max. Switching Power	280W 1,250 VA	
Max. Switching Voltage	42 VDC 380 VAC	
Max. Switching Current	30 Amps	
Material	AgSnO ₂ , AgCdO	
Initial Contact Resistance	50 mΩ Max	
Service Life	Electrical	1 x 10 ⁵ Operations
	Mechanical	1 x 10 ⁷ Operations

DIMENSIONS



WIRING DIAGRAM



CHARACTERISTIC CURVES

