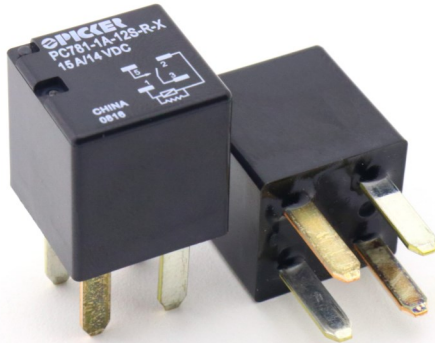


15 Amp Micro ISO 280 Automotive Plug-In Relay - Ignition Protected

PC781



FEATURES

- Ignition Protected* | SAE J1171 | UL 1500 | ISO 8846
- 20 Amps at 14 VDC Rating
- 80 Amp In Rush Current
- Miniature Package - 15.0 mm x 15.5 mm x 14.6 mm
- Reduced Footprint
- Micro 280 ISO Terminal
- Fully Automated Assembly
- RoHS Compliant

CONTACT RATINGS 14 VDC

Contact Form	1 Form A
	Normally Open
Max Switching Current	80 Make
	15 Break
Min Switching Current	1 A
Max Switching Voltage	16 VDC
Resistive	20A @ 14VDC, 10A @ 28VDC, 100K ops.
Motor	16A 14VDC Inrush 80A; ON 2s / OFF 5s, -30~+80°C, 300K ops.
Lamp	16A 14VDC Inrush 80A; ON 2s / OFF 5s, -30~+100°C, 300K ops.

CONTACT DATA

Material	Silver Alloy	
Initial Contact Resistance	50 mΩ max	
Service Life	Electrical	1 x 10 ⁵ Operations
	Mechanical	1 x 10 ⁶ Operations

* Sealed with 12 VDC, 1.1 Watt Coil Versions.

CROSS REFERENCE

Omron: G8V Series
Example: G8V-1A4T-R01-DC12 Crosses to PC781-1A-12S-R-X
Song Chuan: 303 Series
Example: 303-1AH-S-R1-12VDC Crosses to PC781-1A-12S-R-X

CHARACTERISTICS

Insulation Resistance	10 MΩ min.
With Stand Voltage	500 VAC, 1min. Between Coil and Terminal 500 VAC, 1 min. Between Homopolar Contact
Shock Resistance	1000 m/s ² 6 ms, Durability
	1000 m/s ² 11 ms, Malfunction
Vibration Resistance	33 Hz; 44.1 m/s ² , Durability
	33 Hz; 44.1 m/s ² , Malfunction
Power Consumption	1.1 W
Voltage Drop Between Terminals	200 mV max, 15 A
Operating Temperature	-30°C to 100°C
Relative Humidity	30% to 85%
Weight	10 grams

ORDERING INFORMATION

Example:	PC781	-1A	-12	S	-R	-X
Model:	PC781					
Contact Form:	1A					
Coil Voltage:	12					
Enclosure:	S: Sealed, S1: Flux Tight⁽¹⁾					
Contact Material:	Nil: AgSnO₂					
Parallel Component:	R: Resistor (1.1 K, 1/4 W)					
RoHS Compliant:	-X					

(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.

Box Quantity: 500; Inner Box: 50

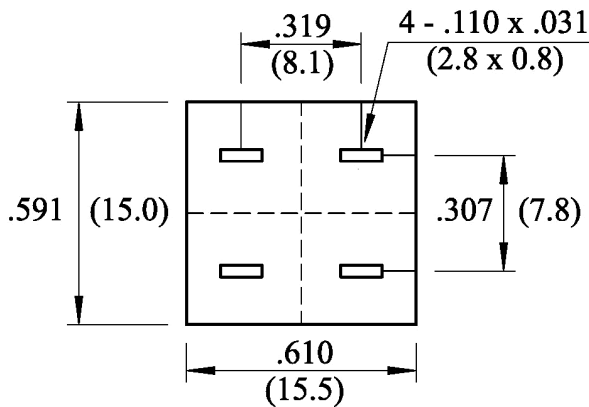
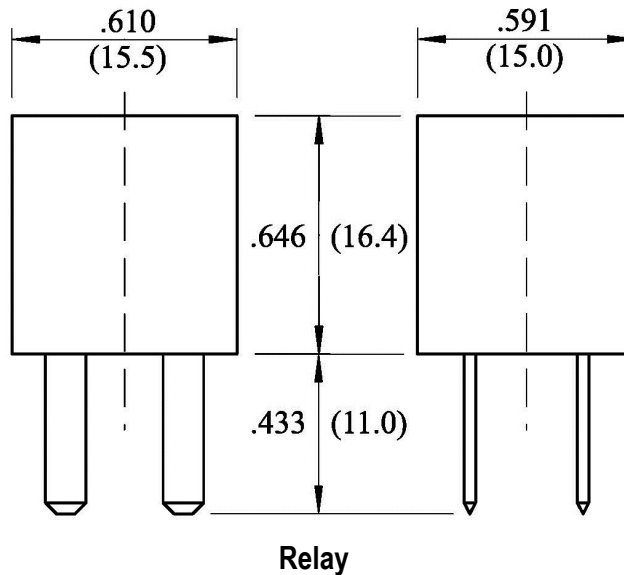
COIL DATA

Coil Voltage (VDC)		Coil Resistance (Ohms ± 10%)		Resistor Values (Ohms ± 10%)	Must Operate Voltage Max (VDC)	Must Release Voltage Min. (VDC)	Coil Power Consumption (mW)	Operate Time (ms)	Release Time (ms)
Rated	Max	Without Resistor Suppression	With Resistor Suppression						
12	16	132	110	680	7.5	1.0	1,091	<10	<10

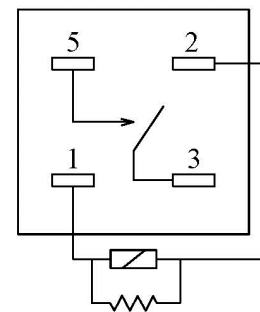
NOTES:

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 Inches/mm



Terminal Layouts (Bottom View)



Wiring Diagrams



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www.PickerComponents.com

e-mail: sales@pickercomponents.com

Dimensions are listed for reference purposes only.

Specifications and Availability subject to change without notice