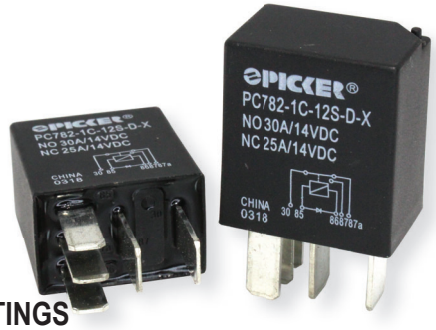
Automotive Plug-In Micro ISO PCB Relay — PC782



FEATURES

- Micro Size Plug-In Design
- 1A & 1C Contact Forms
- -40ºC to 125ºC Operating Temperature
- PC Board Option
- Internal Diode or Resistor Option
- See SC782 for available sockets

RoHS COMPLIANT

CONTACT RATINGS

Contact Form		1A SPST N.O. 1C SPDT
Contact Rating	1A	35A @ 14 VDC, resistive 15A @ 28VDC, resistive
	1C	NO 30A @ 14VDC, resistive NC 25A @ 14VDC, resistive NO 15A @ 28VDC, resistive NC 10A @ 28VDC, resistive

CONTACT DATA

Maximum Switching Power		350 W
Maximum Switching Voltage		48 VDC
Maximum Continuous Current		35 A
Material		$AgSnO_2$
Initial Contact Resistance		50 mΩ max.
Service Life	Mechanical	1 x 10^7 operations
	Electrical	1 x 10^5 operations

CHARACTERISTICS

Insulation Resistance	100 MΩ min. at 500 VDC
Dielectric Strength	500 Vrms, 50 Hz, between contacts 1000 Vrms, 50 Hz, between coil & contacts
Power Consumption	1.2 W (1A contacts); 1.5W (1C contacts)
Terminal Strength	8N (QC terminals); 4N (PC terminals)
Solderability	260°C 5 s ± 0.5 s
Operating Temperature	-40ºC to 125ºC
Storage Temperature	-40ºC to 155ºC
Shock Resistance	100 m/s² 11 ms
Vibration Resistance	10-40Hz; 2.7mm double amplitude
Weight	18.5g

Values can change due to the switching frequency, desired reliability levels, environmental conditions, and in-rush current levels. It is recommended to test to actual load conditions for the applicaiton. It is the users responsibility to determine the performance suitability for their specific application. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.

ORDERING INFORMATION

Example	PC782	-1C	-P	-12	S	-R	-X
Model:	PC782						
Contact Form:	1A 1C						
Mounting Version:	Nil = Plug-In P = PCB						
Coil Voltage:	6 = 6VDC 12 = 12VDC 24 = 24VDC 48 = 48VDC						
Enclosure:	C = Dust Cover S = Sealed S1 = Flux Tight (1)						
Parallel Component	Nil = None D = Diode R = Resistor						
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.

14680 James Road, Rogers, MN 55374 USA
Sales (763) 535-2339
www.PickerComponents.com
email: sales@PickerComponents.com

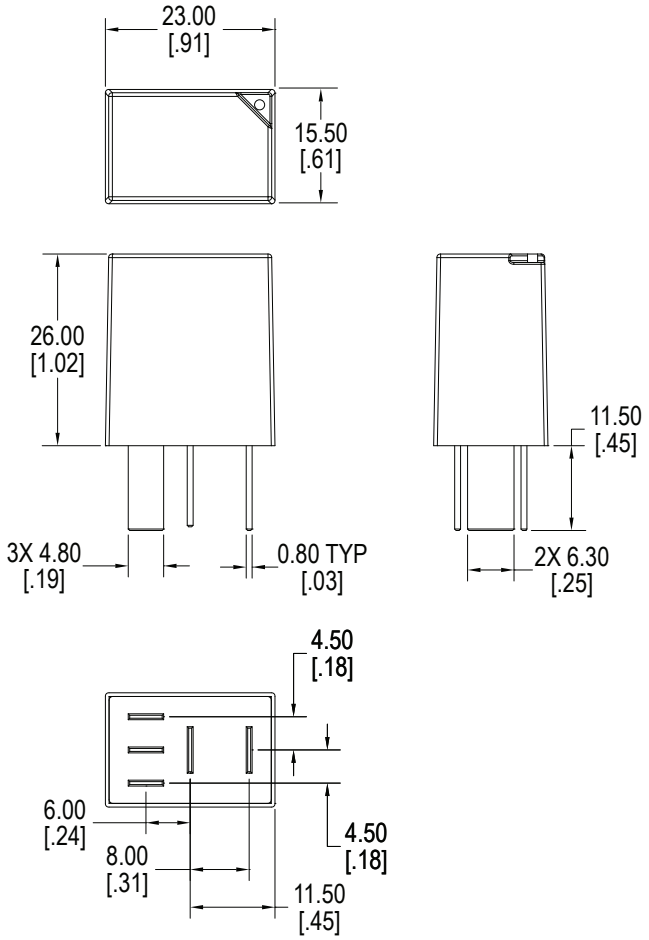
Dimensions are shown for reference purposes only.
PC782 Rev S 12/2020

Specifications and availability subject to change without notice.

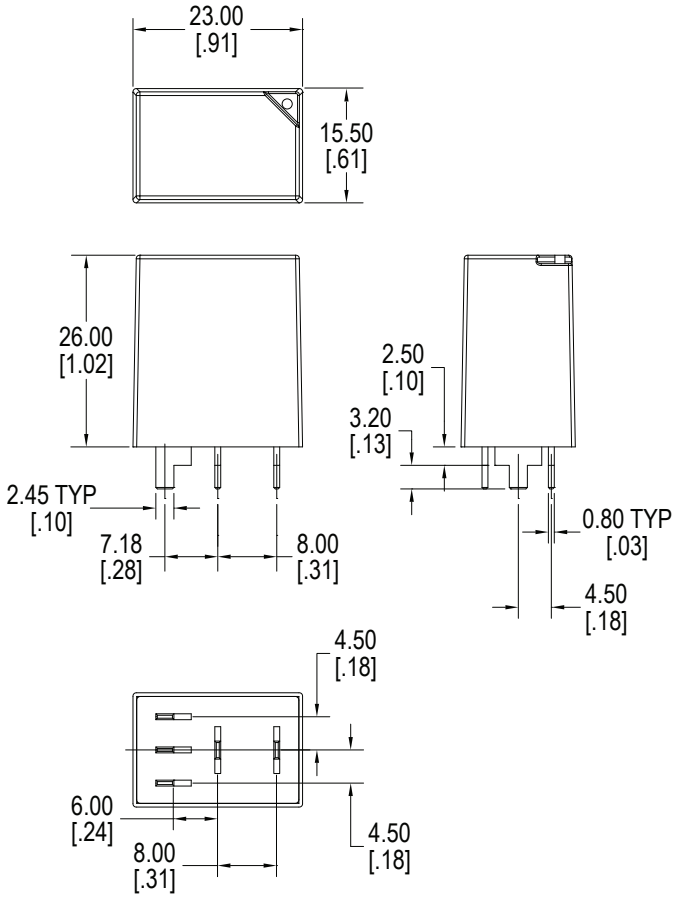
COIL DATA

Coil Voltage		Resistance (Ohms ± 10%)		Pick Up Voltage Max. VDC	Release Voltage Min. VDC	Coil Power W	Operate Time ms	Release Time ms
Rated	Maximum	1.2W	1.5W					
6	7.8	30	24	4.2	.60	1.2 or 1.5	10	7
12	15.6	120	96	8.40	1.20			
24	31.2	480	384	18.00	2.40			
48	62.4	1920	1536	33.60	4.80			

DIMENSIONS *mm (inches)*



Quick Connect Terminals



PC Terminals

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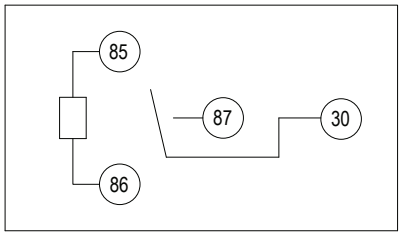
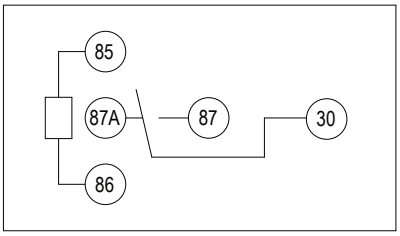
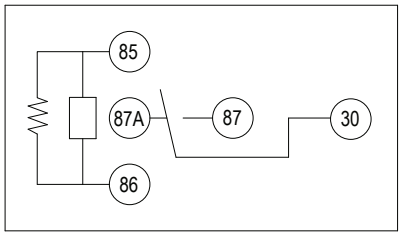
SCHEMATICS *Bottom Views*



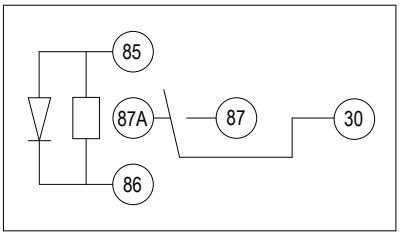
1A



1C

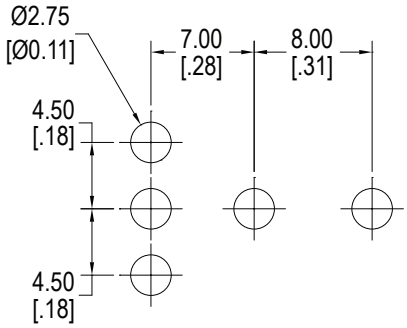


1C with Resistor



1C with Diode

PC Layout *Bottom View*



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