

# 35 Amp Micro ISO Automotive Plug In / PCB

**PC782H**



## FEATURES

- Micro Size Plug-in Design
- 1A (SPST-NO) and 1C (SPDT) Contact Forms Available
- Contact Switching Capacity up to 90 Amps
- 125°C Operating Temperature
- PC Board Version Available
- See SC782 for Available Sockets
- Internal Diodes or Resistors Available
- RoHS Compliant
- Fully Automated Assembly

## CONTACT RATINGS 14 VDC at 25°C

Contact Form	1 Form A (SPST-NO)		1 Form C (SPDT)	
	Normally Open	Normally Open	Normally Open	Normally Closed
Max Switching Current	Make 40 A <sup>(1)</sup>	Make 35A <sup>(1)</sup>	Make 20 A <sup>(1)</sup>	
	Break 35 A	Break 20 A	Break 20 A	
Max Continuous Current	35 A @ 25°C	20 A @ 25°C	15 A @ 25°C	
	25 A @ 85°C	10 A @ 85°C	10 A @ 85°C	
Max Switching Voltage	28 VDC			
Max. Switching Power	560 W			

## CONTACT RATINGS 28 VDC at 25°C

Contact Form	1 Form A (SPST-NO)		1 Form C (SPDT)	
	Normally Open	Normally Open	Normally Open	Normally Closed
Max Switching Current	Make 20A <sup>(1)</sup>	Make 17.5 A <sup>(1)</sup>	Make 10 A <sup>(1)</sup>	
	Break 17.5 A	Break 10 A	Break 10 A	
Max Continuous Current	17.5 A @ 25°C	10 A @ 25°C	7.5A @ 25°C	
	12.5 A @ 85°C	5 A @ 85°C	5A @ 85°C	
Max Switching Voltage	28 VDC			
Max. Switching Power	560 W			

## CHARACTERISTICS

Operate Time	<10 msec max.
Release Time	<10 msec max
Insulation Resistance	100 MΩ Min at 500VDC
Dielectric Strength	500 V 50 Hz Between Contacts
	500 V 50 Hz Between Contact and Coils
Shock Resistance	100 m/s <sup>2</sup> 11ms
Vibration Resistance	10 Hz—55 Hz Double Amplitude 1.5 mm
Terminal Strength	8N 4N (PC type)
Power Consumption	1.5 W ( 12V ); 1.8 W ( 24V )

## CONTACT DATA

Material	AgSnO <sub>2</sub>	
Initial Contact Resistance	50 mΩ Max	
Service Life	Electrical	1 x 10 <sup>5</sup> Operations
	Mechanical	1 x 10 <sup>7</sup> Operations

## CHARACTERISTICS Continued

Solderability	255°C ± 2°C 3 s ± 0.5 s
Operating Temperature Range	- 40 to 125°C
Storage Temperature Range	- 40 to 155°C
Weight	18 grams

<sup>(1)</sup>With current load applied for a maximum of 3 seconds at a maximum duty cycle of 10%.

## ORDERING INFORMATION

Example:	PC782	-1C	-P	-12	S	-R	-X
Model:	<b>PC782</b>						
Contact Form:	<b>1A:</b> 1 Form A (SPST-NO) <b>1C:</b> 1 Form C (SPDT)						
Mounting Version:	<b>Nil:</b> Plug-In; <b>P:</b> PCB						
Coil Voltage:	<b>12:</b> 12 VDC; <b>24:</b> 24 VDC						
Enclosure:	<b>C:</b> Dust Cover, <b>S:</b> Sealed Case						
Parallel Component:	<b>Nil:</b> None; <b>D:</b> Diode, <b>R:</b> Resistor						
RoHS Compliant:	<b>-X</b>						

See SC782 for Available Sockets

Box Quantity: 1,000; Inner Box: 500

**COIL DATA**

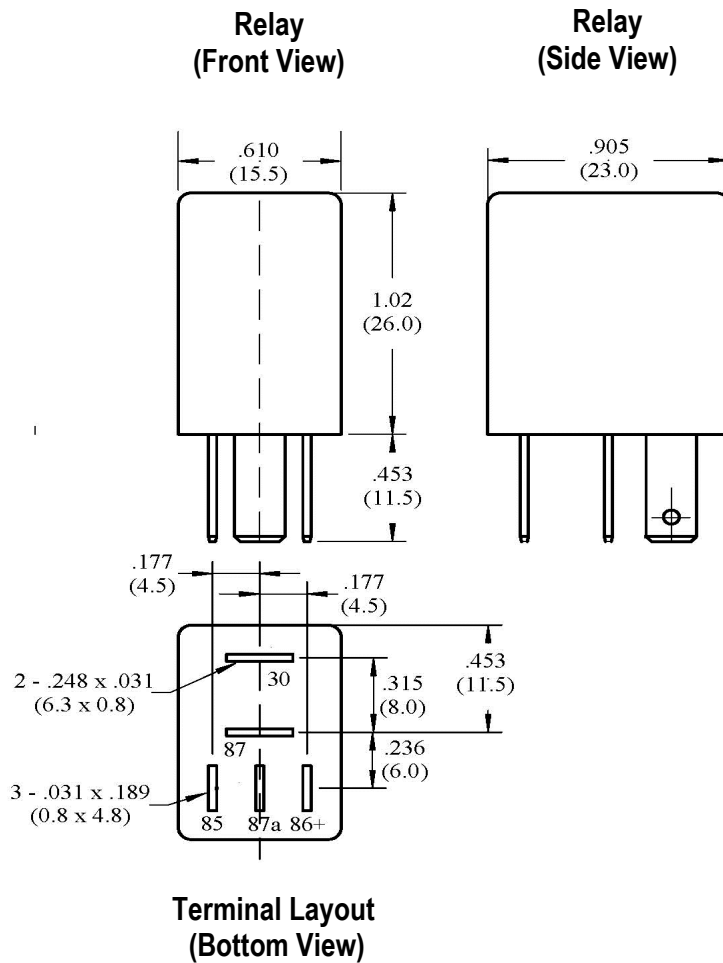
Coil Voltage (VDC)(2)		Coil Resistance (Ohms ± 10%)	Coil Power Watts ( W )	Must Operate Voltage Max (VDC)(3)	Must Release Voltage Min. (VDC)(3)
Rated	Max				
12	16	96	1.5	8.4	1.2
24	32	320	1.8	16.8	2.4

**NOTES:**

(2)The use of any coil voltage less that the rated voltage will compromise the operation of the relays.

(3)Must Operate Voltage and Must Release Voltages are for test purposes only and are not to be used as design criteria.

**DIMENSIONS (mm/inches)**



**Wiring Diagrams**



3220 Commander Drive, Suite 102 Carrollton, TX 75006  
 Sales: (972) 713-6272 (888) 997-3933 Fax: (972)735-0964

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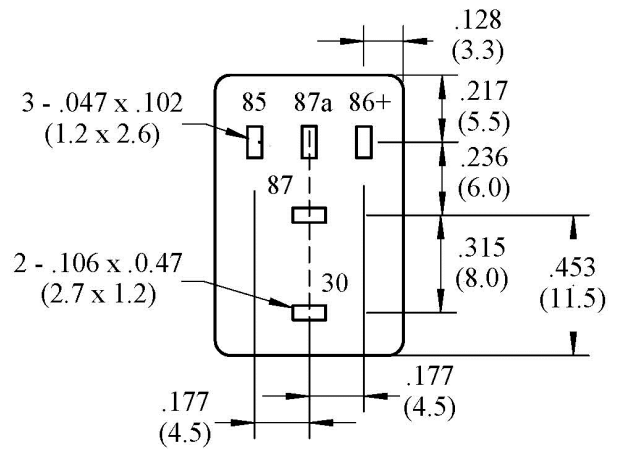
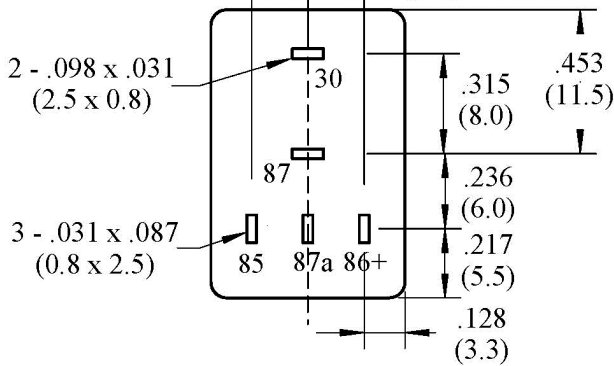
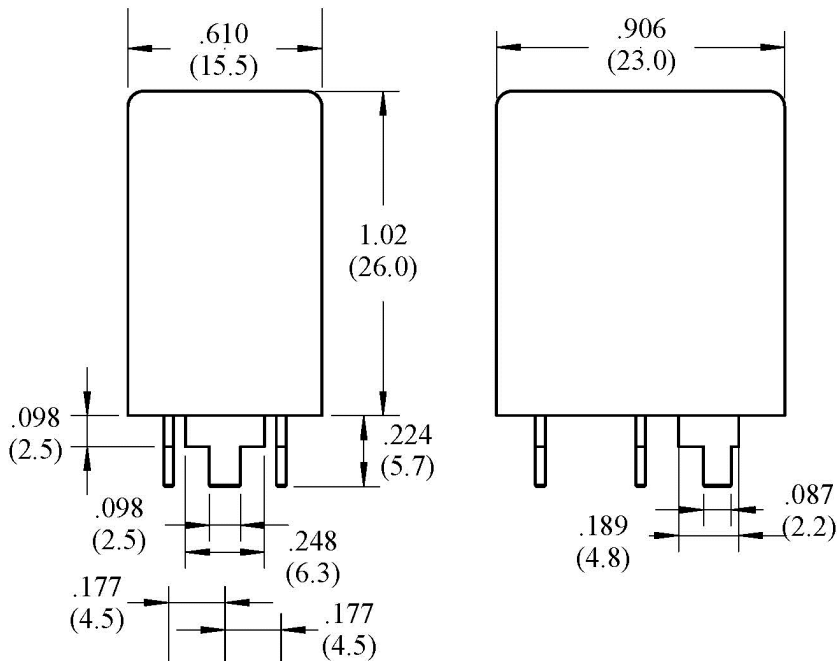
e-mail: sales@pickercomponents.com

Dimensions are listed for reference purposes only.

Specifications and Availability subject to change without notice.

**Relay  
(Front View)**

**Relay  
(Side View)**

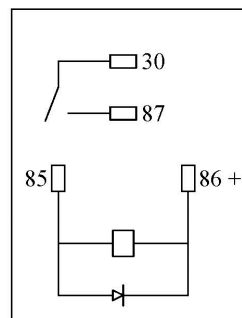
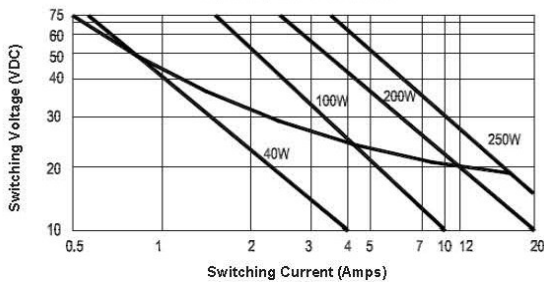


**Terminal Layout  
(Bottom View)**

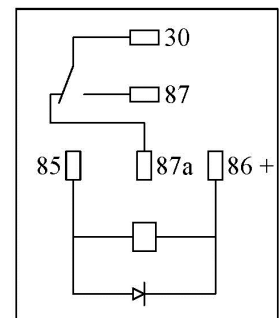
**PC Board Layout  
(Top View)**

**Reference Data**

Contact Switching Capacity



**1A (SPST-NO)**



**1C (SPDT)**

**Wiring**

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