Automotive Plug-In / PCB Mini ISO Relay

PC792E

FEATURES

- 50 Amps Continuus Carrying Current
- Internal Diode or Resistor Option
- Sockets Available

RoHS COMPLIANT

CONTACT RATINGS

Contact Form		1A SPST N.O. 1C SPDT
Contact Rating	1A	50A @ 14VDC, resistive 20A @ 28VDC, resistive
	1C	NO 50A @ 14VDC, resistive NC 40A @ 14VDC, resistive NO 20A @ 28VDC, resistive NC 15A @ 28VDC, resistive

CONTACT DATA

Maximum Switching Power		700 W
Maximum Switching Voltage		75 VDC
Maximum Continuous Current		50 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 750 Vrms, 50 Hz, between coil & contacts
Power Consumption	1.6W
Terminal Strength	8N quick connect, 4N PCB pins
Solderability	260°C 5 s ± 0.5 s
Operating Temperature	-40ºC to 125ºC
Storage Temperature	-40ºC to 155ºC
Shock Resistance	294 m/s^2 11 ms
Vibration Resistance	10mm double amplitude 10-22.3Hz
Weight	35.0g

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

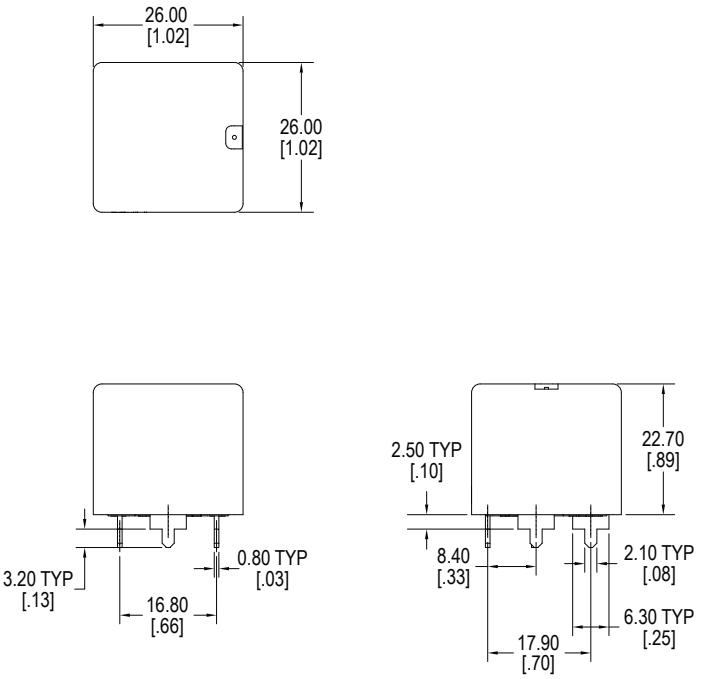
Example	PC792E	-1C	-C	-12	S			-X
Model:	PC792E							
Contact Form:	1A 1C							
Mounting Version:	C = Plug-In C1 = Plastic Bracket C2 = Metal Bracket P = PC Pins							
Coil Voltage:	12 = 12VDC 24 = 24VDC							
Enclosure:	C = Dust Cover S = Sealed S1 = Flux Tight (1)							
Coil Power:	Nil = 1.6W							
Parallel Component:	Nil = None D = Diode (1N4005) D1 = Reverse Diode (1N4005) R = Resistor (680 Ohms for 12VDC, 2700 for 24VDC)							
Terminal Plating:	Nil = PC Pin N = Tin Plated Terminals, standard on all Plug-In models							
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.

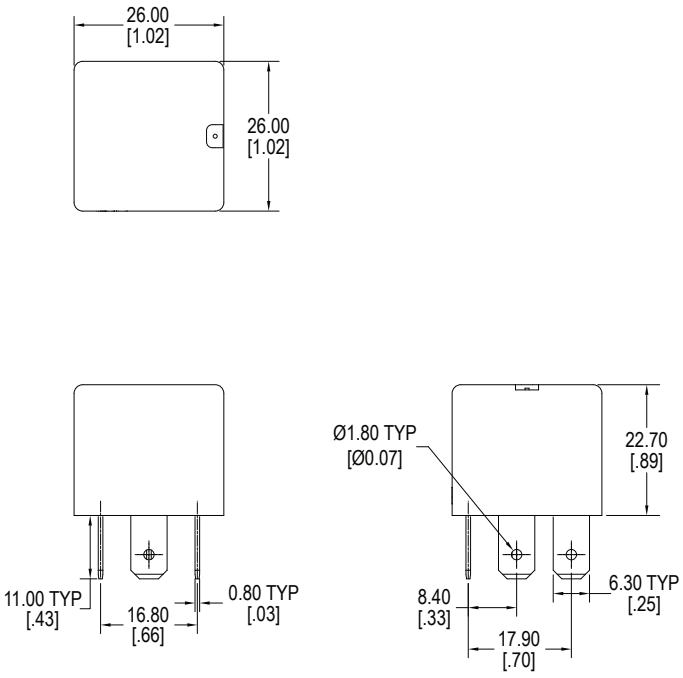
COIL DATA

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						
12	15.6	90	7.80	1.20	1.6	≤10	≤10
24	31.2	360	15.60	2.40			

DIMENSIONS *mm (inches)*

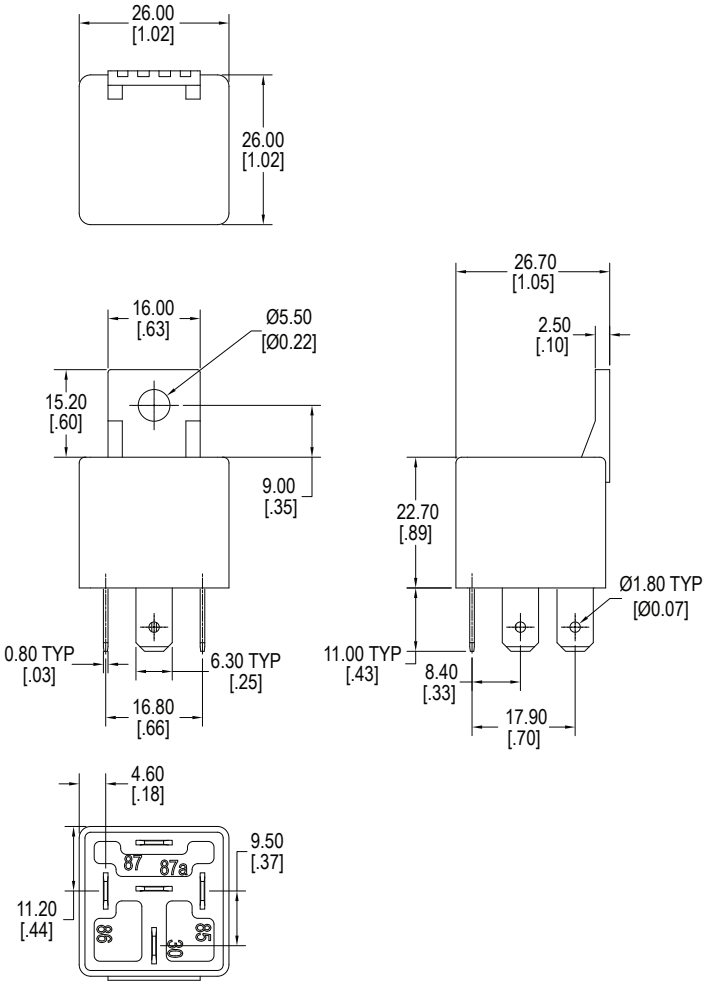


Standard with PC Pins (P)

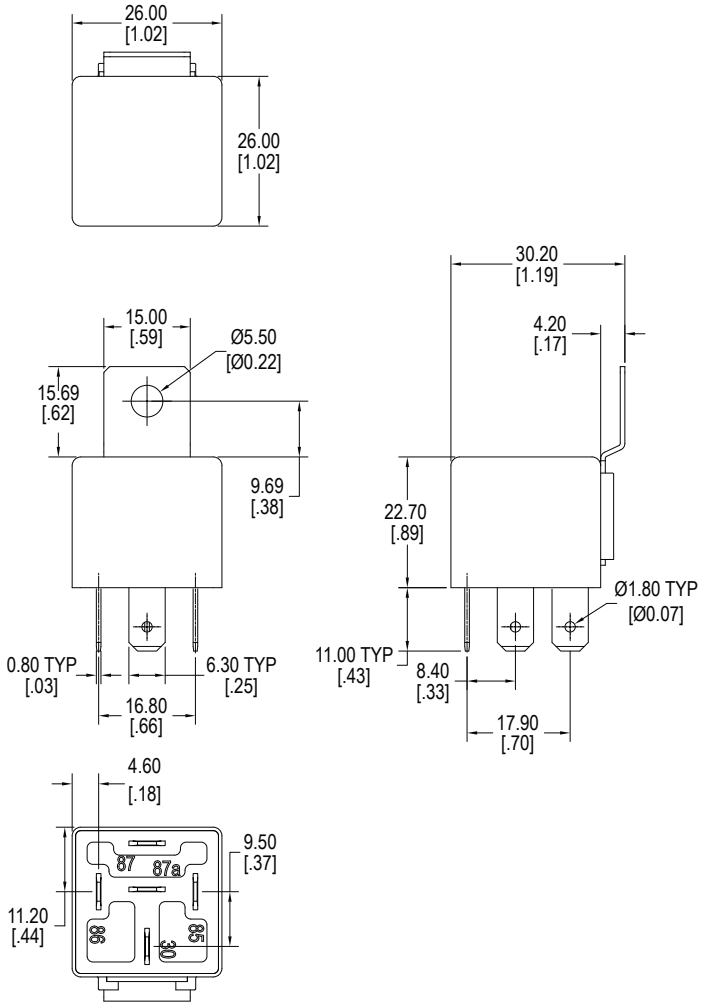


Standard with Quick Connect (C)

DIMENSIONS *mm (inches)*

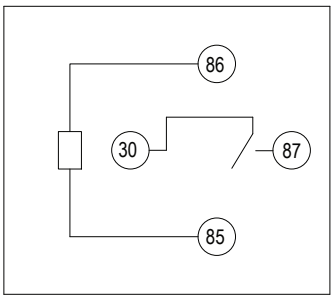


Quick Connect with Plastic Bracket

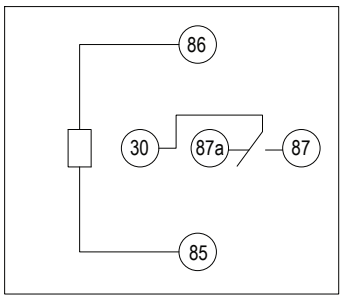


Quick Connect with Metal Bracket

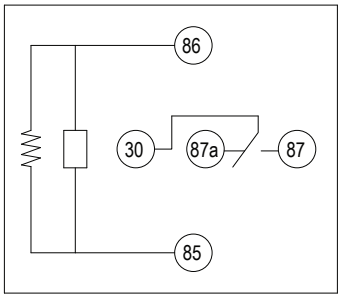
SCHEMATICS *Bottom Views*



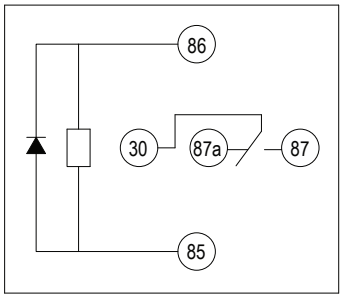
1A



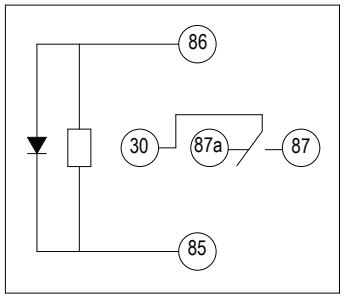
1C



1C with Resistor



1C with Diode



1C with Reverse Diode

PC LAYOUT