

150/100 Amp Automotive Plug-In / PCB Maxi ISO Relay

PC7150



FEATURES

- Popular Maxi ISO Automotive Relay Footprint
- 1A and 1C Contact Forms Available
- Contact Switching Capacity up to 450 Amps
- 150 Amps Continuous Carrying Current
- Up to 125°C Operating Temperature
- Internal Diodes or Resistors Available
- Plain Case, Metal Mounting Bracket and PC Pins
- Sockets Available
- Lead Free and RoHS Compliant

CONTACT RATINGS 14 VDC at 25°C

Contact Form	1 Form A or 1 Form C				
Contact Form	Normally Open	Normally Closed			
May Cuitabing Current	Make 450 A ⁽¹⁾	Make 300 A ⁽¹⁾			
Max Switching Current	Break 150 A	Break 100 A			
May Cantingana Comant	150 A @ 25°C	100 A @ 25°C			
Max Continuous Current	112.5 A @ 85°C	75 A @ 85°C			
Max Switching Voltage	75 VE	75 VDC			
Max. Switching Power	1800 W				
Minimum Load	0.5A @ 12 VDC				

CHARACTERISTICS

51 // 11 // 10 1 E1 // 10 1 10 0					
Operate Time	7 msec Typical				
Release Time	2 msec Typical				
Insulation Resistance	100 MΩ Min @ 500VDC				
Dielectric Strength	50 Hz 1000 V Between Contact and Coil				
	50 Hz 750 V Between Contacts				
Shock Resistance	147 m/s ² 11 msec				
Vibration Resistance	10-40 Hz Double Amplitude 1.5mm				
Terminal Strength	30 N				
Solderability	260°C for 5 seconds				
Power Consumption	2.9 W				

CONTACT RATINGS 28 VDC at 25°C

Contact Form	1 Form A or 1 Form C				
Contact Form	Normally Open	Normally Closed			
Max Switching Current	Make 225 A ⁽¹⁾	Make 150 A ⁽¹⁾			
Max Switching Current	Break 75 A	Break 50 A			
Max Continuous Current	75 A @ 25°C	50 A @ 25°C			
Max Continuous Current	56.25 A @ 85° C	37.5 A @ 85°C			
Max Switching Voltage	75 VDC				
Max. Switching Power	1800 W				
Minimum Load 0.5A @ 24 VDC					

CONTACT DATA

Material		AgSnO2		
Initial Contact Resistance		100 MΩ Max @ 0.1 A, 6 VDC		
Service Life	Electrical	1 x 10 ⁵ Operations		
	Mechanical	1 x 107 Operations		

CHARACTERISTICS Continued

Operating Temperature	-40°C to 125°C
Storage Temperature	-40°C to 155°C
Relative Humidity	85% at 40°C
Weight	60 grams
Flammability	UL-94-VO Meets FMVSS 302

⁽¹⁾With current load applied for a maximum of 3 seconds at a maximum duty cycle of 10%

ORDERING INFORMATION

OTTO LITTLE OF								
Example:	PC7150	-1C	-C2	-12	С	-R	N	-X
Model:	PC7150							
Contact Form:	1A, 1C	_						
Case Style:	C: Plug-In; C2: Metal Bracket; P:	PC Pins	-					
Coil Voltage:	12, 24, 48			-				
Enclosure:	C: Dust Cover, S1: Flux Tight(2)				•			
Parallel Component:	Nil: None; D: Diode; R: Resistor					=		
Trminal Plating:	Plating: N: Nickel Plated Terminals Standard on all Plug In Models; Nil: PC PIN Version							
RoHS Compliant:	-X	•		•	•			-

(2) 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: 200; Inner Box:100

OPICKER 1

14680 James Road, Rogers, MN 55374 USA

Sales: (763) 535-2339

*Contact Picker if You Require the Opposite Polarity or a Dual Diode

(-)85

Coil Options
Resistor Values:
6V -180 ohm
12V - 680 ohm
24V - 2,700 ohm
Diode: 1N4005
Orientation of Optional Diode

www.PickerComponents.com email: sales@pickercomponents.com

Specifications and Availability subject to change without notice.

Anode

Dimensions are listed for reference purposes only.

1 of 2

PC7150 PC7150

COIL DATA

Coil Voltage (VDC)		Must Operate	Must Release	Resistor Values	$1 (Ohms + 10\%) I (m\Delta) I (W)$					
Rated	Max	Voltage Max (VDC)	Voltage Min (VDC)	(Ohms ± 10%)	Without Resistor	With Resistor	Without With Resistor		Without Resistor	With Resistor
12	15.6	7.8	1.2	680	50	47	240	258		
24	31.2	15.6	2.4	2700	195	182	123	132	2.9	3.2
48	62.4	31.2	4.8	10000	794	736	60	65		

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)

