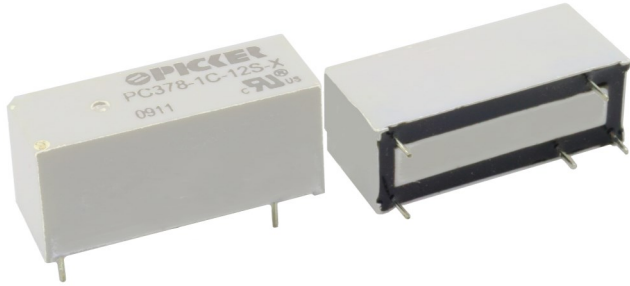


# 10 Amp Low Profile Miniature PCB Power Relay PC378



### FEATURES

- Up to 10 Amp at 250 VAC / 30 VDC Continuous Contact Capacity
- Miniature Size 28.5 x 12.5 x 10.1 mm
- Six Contact Forms
- Gold Clad Contact Option
- 5 KV Dielectric Strength Between Coil and Contacts
- 8 mm Creepage Distance Between Coil and Contacts
- Low Profile Design, .49 in. Tall
- Meets UL 873 Spacing
- 85°C Operating Temperature
- RoHS Compliant



Form	1A SPST	1C SPDT	1C2 SPDT	2A* DPST-NO	2B* DPST-NC	2C* DPDT
Number of Pins	4	5	8	6	6	8
Wire Diagram (Bottom View)						
General Purpose - 374	8 A 250 VAC 8 A 30 VDC		NC: 8 A 250 VAC NO: 8 A 250 VAC	2x5 277 VAC 2x5 30 VDC		
Coil Power	220 - 290 mW (Varies by Coil Voltage)					
Max Switching Current	10 A					
Max Switching Power	1A, 1C, 1C2 - 300 W, 2,500 VA 2A, 2B, 2C - 2x150 W, 2x1,250 VA					
Max Switching Voltage	440 VAC 125 VDC					
Min Switching Current	Gold plated: 50 mA Non Gold plated: 100 mA					
Min Switching Voltage	6 VDC					

### ORDERING INFORMATION

Example:	PC378	-1C	-12	C	-X
Model:	<b>PC378</b>				
Contact Form:	<b>1A, 1C, 1C2, 2A*, 2B*, or 2C*</b>				
Coil Voltage ( VDC ):	<b>5, 6, 9, 12, 24, 48, 60</b>				
Enclosure:	<b>S: Sealed; C: Dust Cover</b>				
Contact Material:	<b>Nil: AgSnO<sub>2</sub>; N: AgNi; G: AgSnO+Au</b>				
Coil Sensitivity::	<b>Nil: 220-290 mW (Varies by Coil Voltage)</b>				
RoHS Compliant:	<b>-X</b>				

Box Quantity: 1000; Inner Box: 500

\*Available 2019

**CROSS REFERENCES**

Omron G6RL
Omron G6RL-14-ASIDC24 Crosses to PC374-1C-24C-X
TE SHRACK RY
RY211012 Crosses to PC378-1C-12CN-X

**COIL DATA**

Coil Voltage		Resistance (Ohms $\pm$ 10%)	Must Operate Voltage Max (VDC)	Must Release Voltage Min. (VDC)	Coil Power (mW)
Rated	Max				
5	6.5	113	3.5	0.5	220
6	7.8	164	4.2	0.6	
9	11.7	360	6.3	0.9	
12	15.6	620	8.4	1.2	230
18	23.4	1,295	12.7	1.8	
24	31.2	2,350	16.8	2.4	250
48	62.4	8,000	33.6	4.8	
60	78	12,500	42	6.0	290

**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.

**CONTACT DATA**

Material	AgSnO <sub>2</sub> , AgNi	
Initial Contact Resistance	100 m $\Omega$ max @ 1 A, 6 VDC	
Service Life	Mechanical	1 X 10 <sup>7</sup> Operations
	Electrical	1 X 10 <sup>5</sup> Operations

**NOTES:**

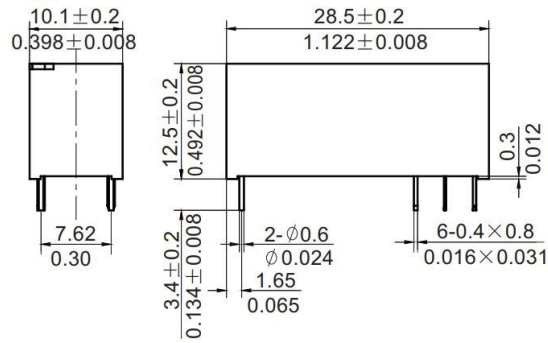
Contact Ratings for intermediate current applications  
(10 mA/6 VDC~100 mA/28 VDC) only applies at 25°C.

**CHARACTERISTIC**

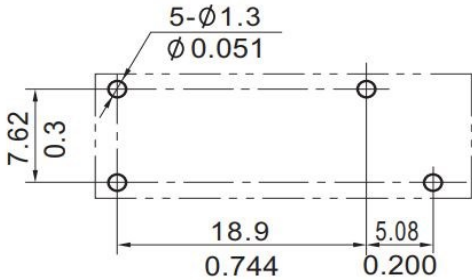
Operate Time	10 ms. Max.
Release Time	5 ms Max
Insulation Resistance	1,000 M $\Omega$ min, at 500 VDC, 50% RH
Dielectric Strength	5,000 V 50 HZ between coil and contacts
	1,000 V 50 HZ between open contacts 2,500 V 50 HZ between contact sets
Shock Resistance	Functional: NO: 98 m/s <sup>2</sup> , NC: 49 m/s <sup>2</sup> Survival: 980 m/s <sup>2</sup>
Vibration Resistance	10 Hz- 55 Hz DA NO: 1.65mm
Terminal Strength	10N
Solderability	260°C for 5 seconds
Operating Temperature Range	Class B - 40°C to 85°C
Relative Humidity	85% (at 40°C)
Weight	8 grams

**DIMENSIONS**

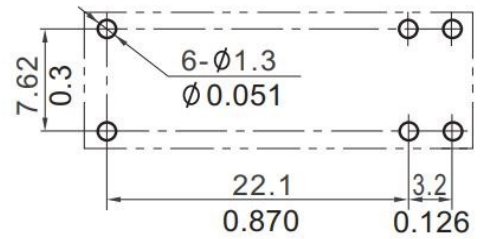
Dimensions are in millimeters  
 Inches are given for general information only



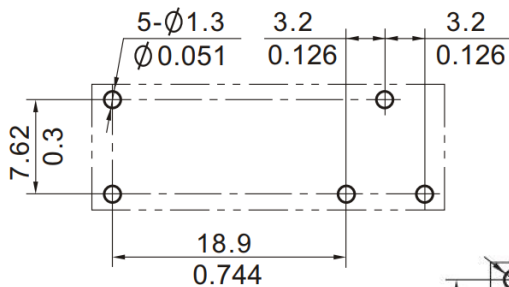
Mounting (Bottom View)



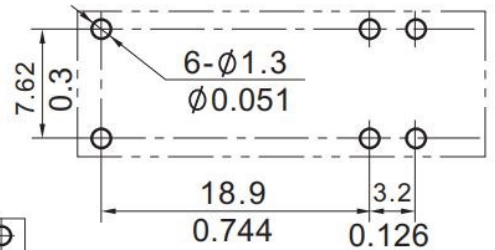
1A



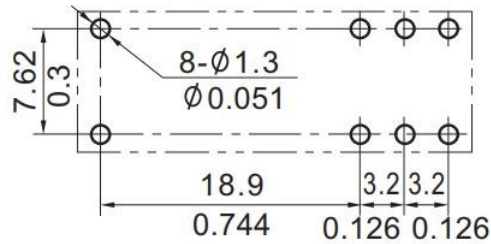
2A



1C



2B



1C2,2C

Wire Diagram  
 (Bottom View)

