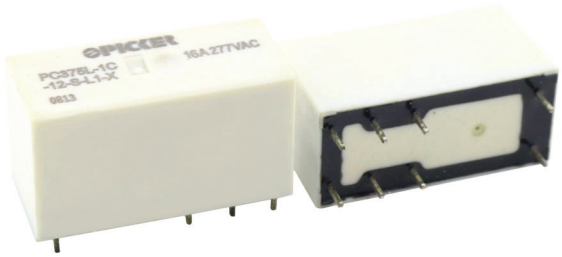
Low Profile Latching PCB Power Relay

E86876

PC375L



FEATURES

- Low Profile Design, .62" Tall
- Meets UL 873 Spacing
- Class F Material Standard
- Up to 16 Amp Continuous Contact Capacity
- 5KV Dielectric Strength Between Coil & Contacts
- 85°C Operating Temperature

RoHS COMPLIANT

UL / CUL Ratings

Contact Form	1 Form A SPST N.O. 1 Form C SPDT	
Rated Load	Voltage	Amps
General Purpose, 50K cycles, 85°C	250VAC / 30VDC	16A

CONTACT DATA

Maximum Switching Power	480 W, 4000 VA
Maximum Switching Voltage	380 VAC, 110 VDC
Maximum Switching Current	16A
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	1,000M Ω min. at 500 VDC
Dielectric Strength	5000V rms, between coil & contacts 1000V rms, between contact
Power Consumption	.41 W; .61W
Terminal Strength	10N
Solderability	260°C 5s ± 0.5s
Operating Temperature	-55ºC to 105ºC
Storage Temperature	-55ºC to 155ºC
Shock Resistance	98 m/s^2 11 ms
Vibration Resistance	10 Hz - 55 Hz double amplitude 1.5mm
Weight	14g

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	PC375L	-1C	-12	S		-L1	R	-X

Model:	PC375L
Contact Form	1A 1C
Coil Voltage	5 = 5VDC 6 = 6VDC 9 = 9VDC 12 = 12VDC 24 = 24VDC
Enclosure	S = Sealed C = Dust Cover
Contact Plating	Nil = Standard G = Gold
Version	L1 = Single Coil L2 = Dual Coil
Polarity	Nil = Standard R = Reverse Polarity
RoHS Compliant:	Nil = RoHS Compliant

20550 Commerce Blvd, Rogers, MN 55374 USA
Sales (763) 535-2339
www.PickerComponents.com
email: sales@PickerComponents.com

Dimensions are shown for reference purposes only.
PC375L Rev E 11/2022

Specifications and availability subject to change without notice.

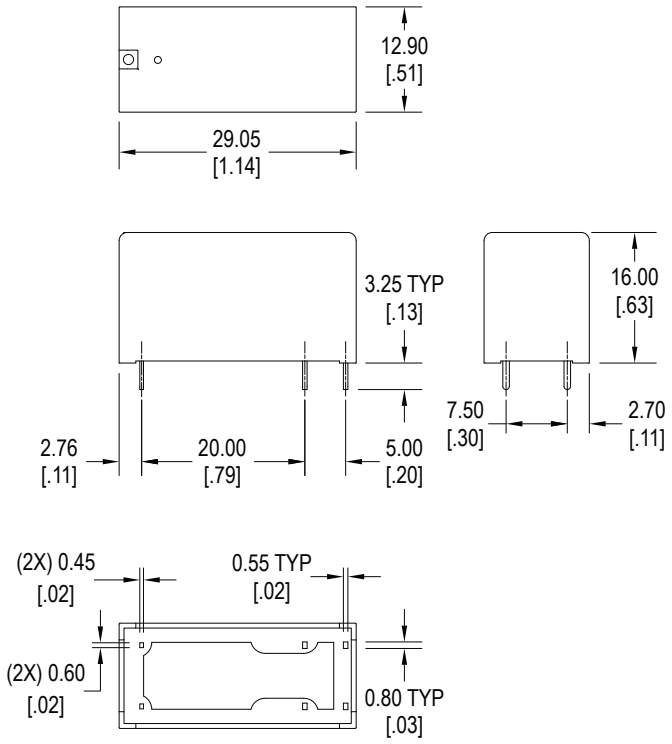
COIL DATA - Single Coil

Coil Voltage		Resistance (Ohms ± 10%)	Pick Up Voltage Max. VDC	Release Voltage Min. VDC	Pulse Magnitude ms	Coil Power W	Operate Time ms	Release Time ms
Rated	Max							
5	6.5	62	3.75	.5	≥50	.40	10	5
6	7.8	90	4.50	.6				
9	11.7	202	6.75	.9				
12	15.6	360	9.00	1.2				
24	31.2	1440	18.00	2.4				

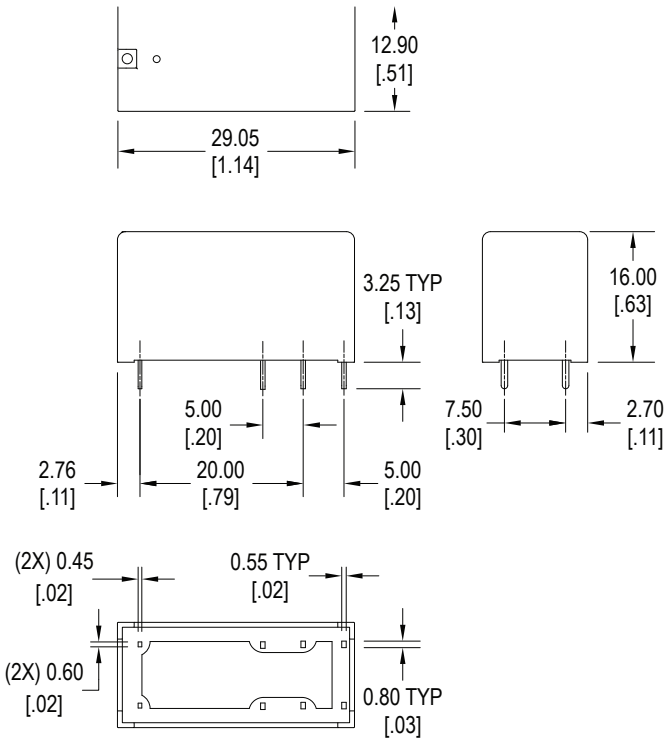
COIL DATA - Dual Coil

Coil Voltage		Resistance (Ohms ± 10%)	Pick Up Voltage Max. VDC	Release Voltage Min. VDC	Pulse Magnitude ms	Coil Power W	Operate Time ms	Release Time ms
Rated	Max							
5	6.5	42	3.75	.5	≥50	.60	10	5
6	7.8	60	4.50	.6				
9	11.7	135	6.75	.9				
12	15.6	240	9.00	1.2				
24	31.2	886	18.00	2.4				

DIMENSIONS *Inches (mm)*

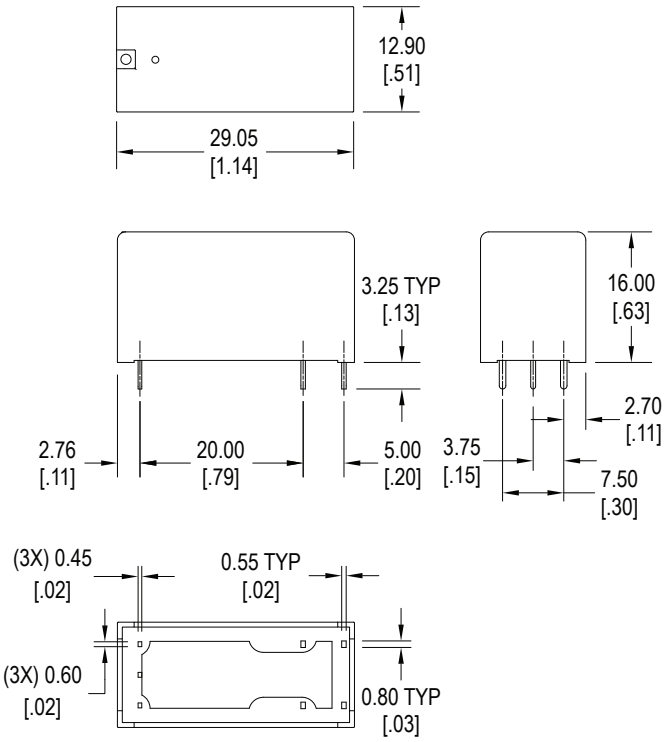


1A Single Coil

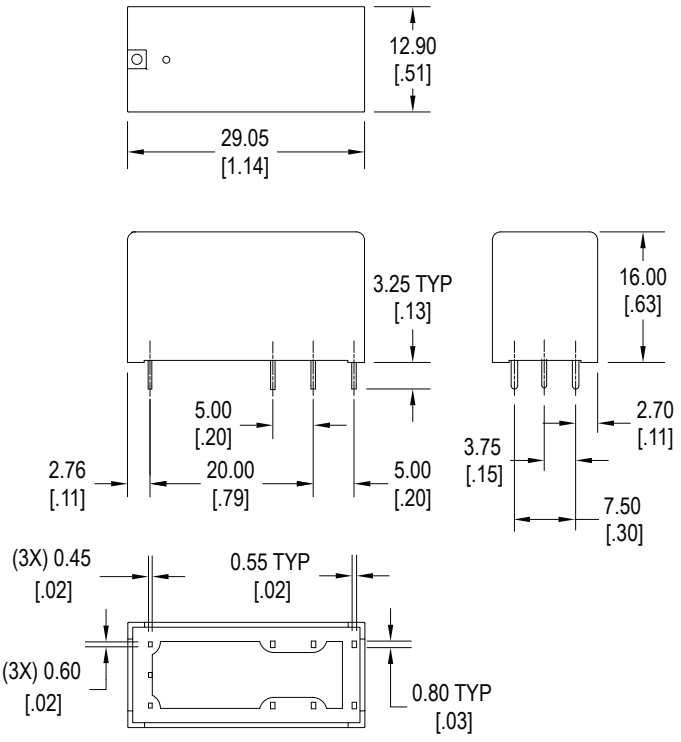


1C Single Coil

DIMENSIONS *Inches (mm)*

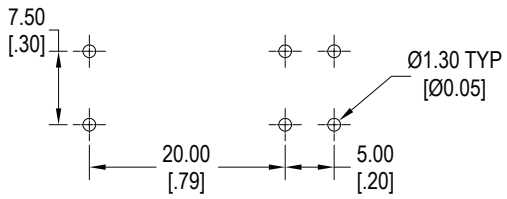


1A Dual Coil

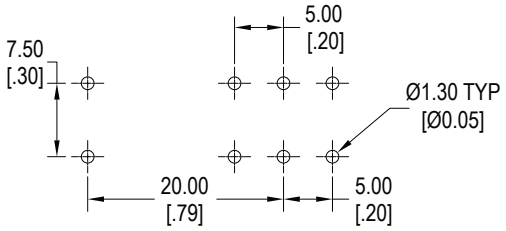


1C Dual Coil

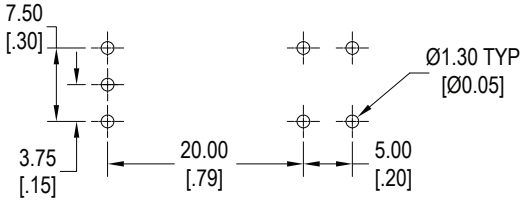
SCHEMATICS & PC LAYOUT *Bottom Views*



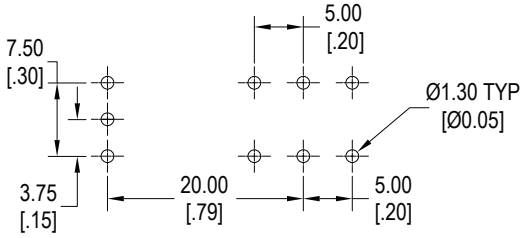
1A Single



1C Single

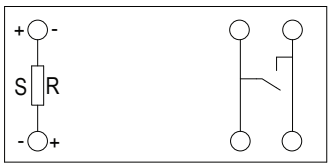


1A Dual

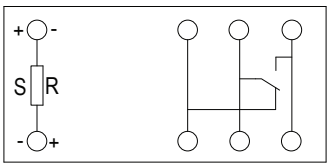


1C Dual

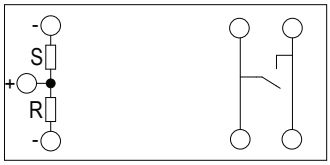
SCHEMATICS & PC LAYOUT *Bottom Views*



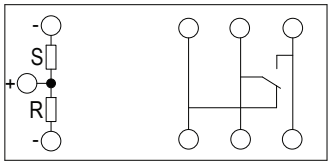
1A Single



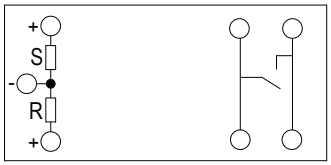
1C Single



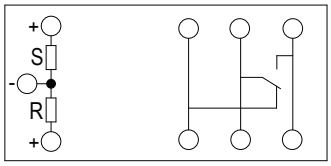
1A Dual



1C Dual

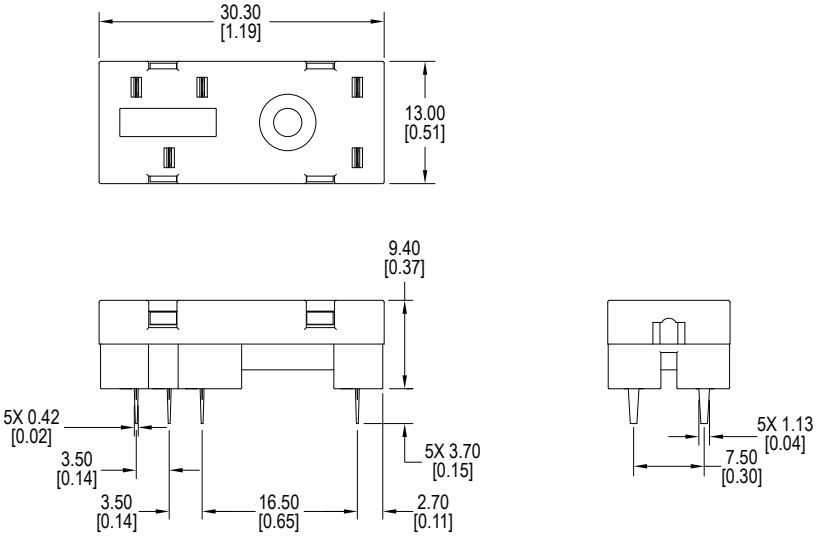


1A Dual Reverse Polarity

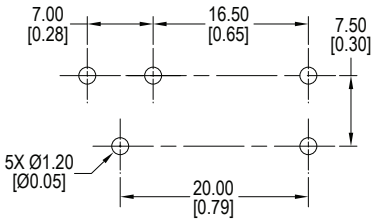


1C Dual Reverse Polarity

SOCKETS *Units = mm [in]*

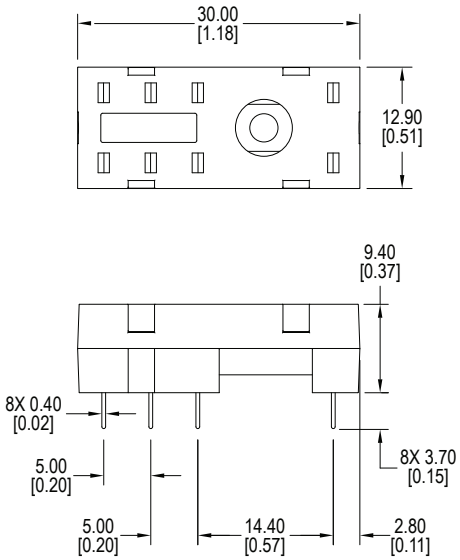


RS114A

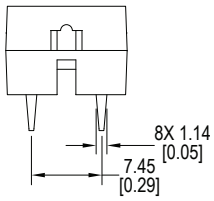


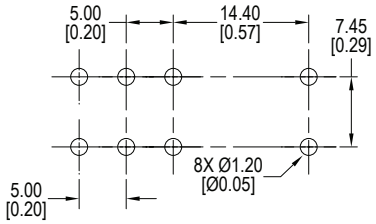
Suggested PC Layout

SOCKETS *Units = mm [in]*

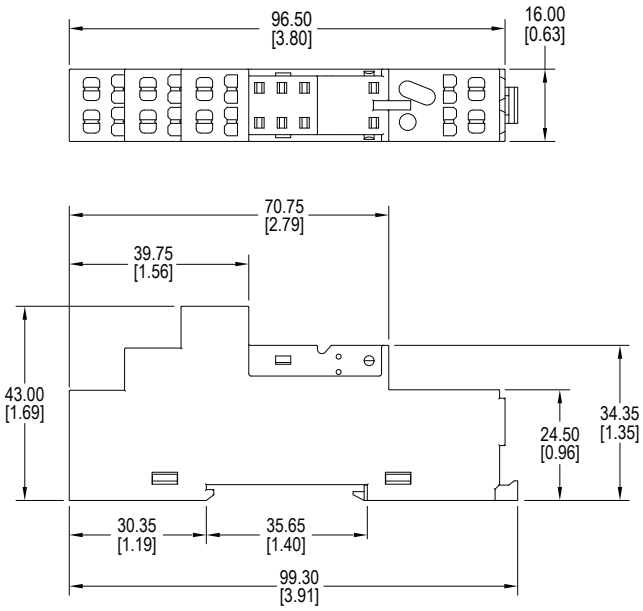


RS114B

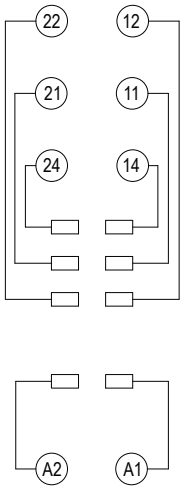




Suggested PC Layout

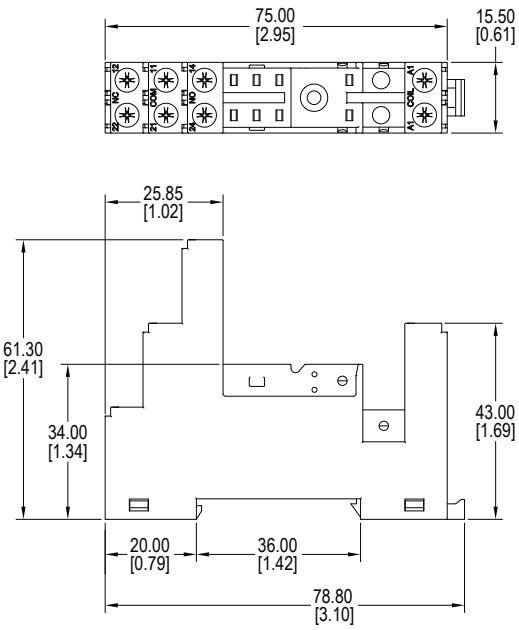


RS114C

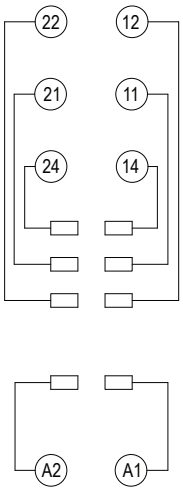


Schematic

SOCKETS *Units = mm [in]*



RS114D



Schematic

