CUDEVICES

SERIES: PR14 | DESCRIPTION: POWER RELAY

FEATURES

- 5V/12V/24V
- SPST & SPDT
- 360 mW



MODEL

	coil voltage typ (Vdc)	coil resistance (Ω±10%)	operating voltage min (Vdc)	release voltage max (Vdc)	coil power max (mW)
PR14-5V-360-1A	5	55	3.5	0.5	360
PR14-12V-360-1A	12	320	8.4	1.2	360
PR14-24V-360-1A	24	1,280	16.8	2.4	360
PR14-5V-360-1C	5	55	3.5	0.5	360
PR14-12V-360-1C	12	320	8.4	1.2	360
PR14-24V-360-1C	24	1,280	16.8	2.4	360

Notes: 1. All specifications are measured at 23°C unless otherwise specified.

PART NUMBER KEY

PR14 - XX - 360 - XX

- PR14 — Base Number
- XX — Coil Voltage (Vdc):
  5V = 5
  12V = 12
  24V = 24
- XX — Contact Form:
  1A = 1 Form A
  1C = 1 Form C

CONTACT SPECIFICATIONS

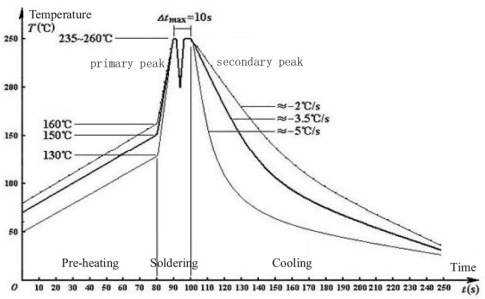
parameter	conditions/description	min	typ	max	units
contact form	1 Form A, 1 Form C				
contact material	Ag alloy				
contact rating	10 A @ 250 Vac 10 A @ 30 Vdc				
contact resistance	at 24 Vdc, 1.0 A			100	mΩ
max switching voltage				250 30	Vac Vdc
max switching current				10	A
max switching power				2,500 300	VA W
min switching load	5 Vdc, 100 mA				
life	electrical: NO Contact, 10 A @ 250 Vac mechanical		100,000 10,000,000		operations operations

GENERAL SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
insulation resistance	at 500 Vdc	1,000			MΩ
dielectric strength	between open contacts for 1 minute between coil and contacts for 1 minute		1,000 2,500		Vac Vac
operate time				10	ms
release time				5	ms
shock resistance	endurance misoperation		1,000 100		m/s^2 m/s^2
vibration resistance	endurance: 10~55 Hz, 1.5 mm double amplitude misoperation: 10~55 Hz, 1.5 mm double amplitude				
operating temperature		-40		85	°C
humidity	at 40°C	35		95	%RH
weight			11.0		g
safety approvals	UL/cUL 508				
flammability rating	UL94V-0				
RoHS	yes				
packaging	tube: 25 pcs per tube carton size: 456 x 266 x 161 mm carton QTY: 1,000 pcs per carton				

SOLDERABILITY

parameter	conditions/description	min	typ	max	units
hand soldering	for 3.5±0.5 seconds	340	350	360	°C
wave soldering	for 10±1 seconds	255	260	265	°C

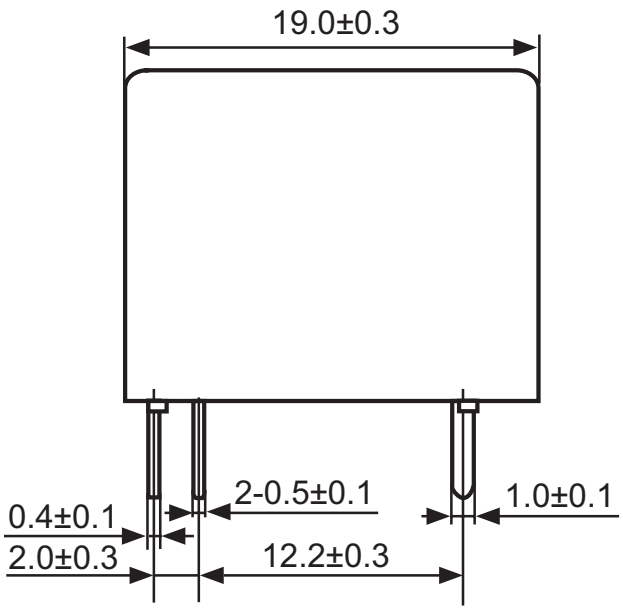


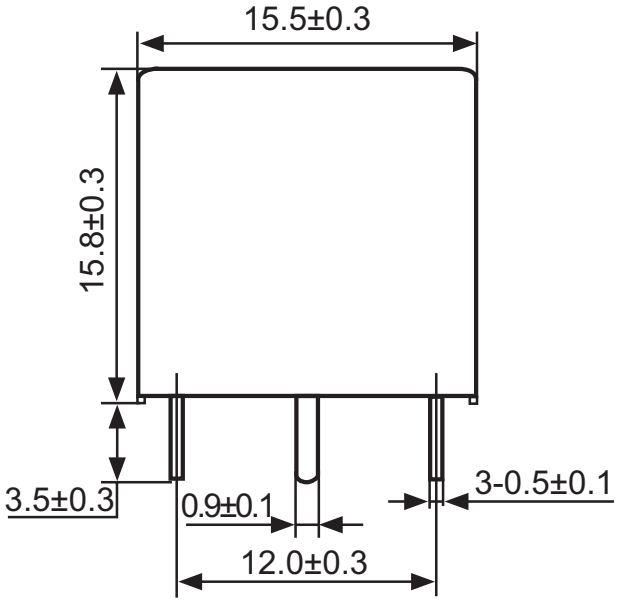
Double-wave Soldering Curve

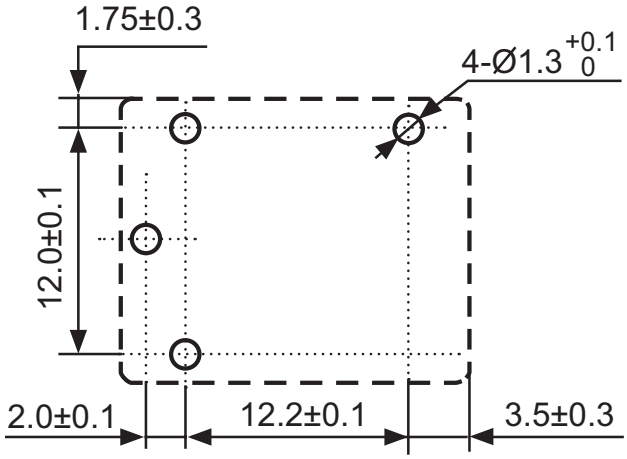
MECHANICAL DRAWING (1A = 1 FORM A)

units: mm
tolerance: ±0.3 mm
unless otherwise noted

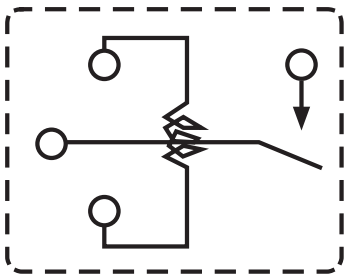
ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
A	housing	PBT (UL94V-0)	black
B	terminals	copper covered steel	tin







Recommended PCB Layout
Bottom View

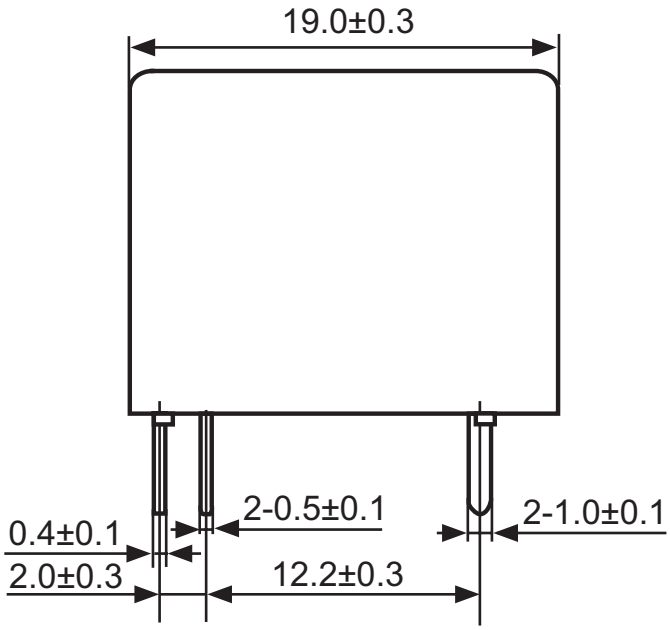


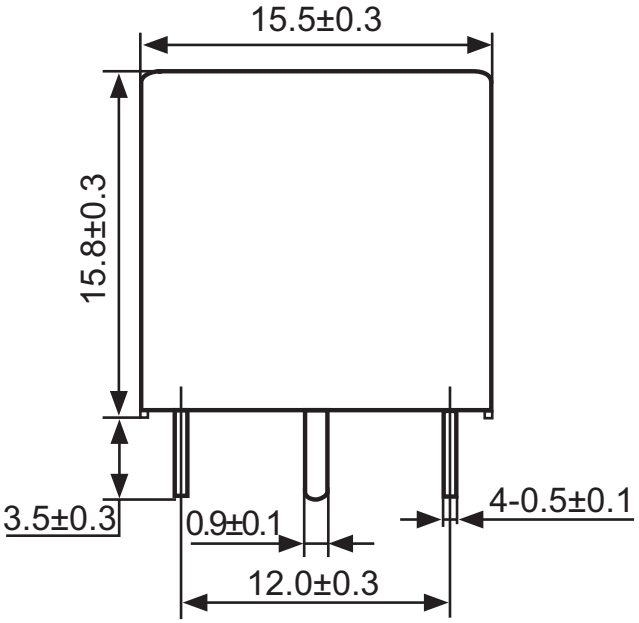
Wiring Diagram
Bottom View

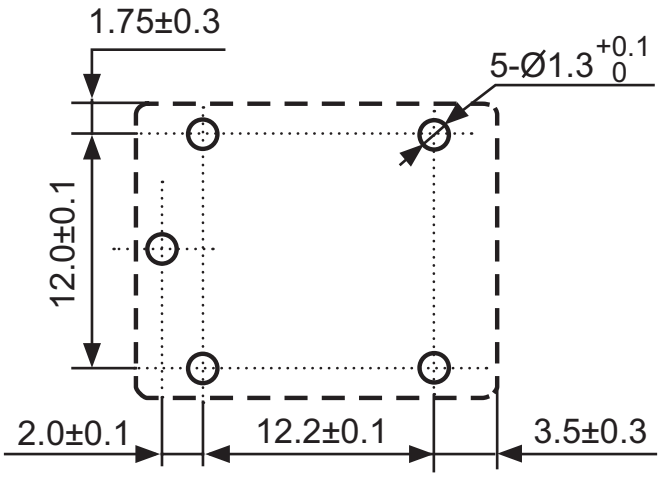
MECHANICAL DRAWING (1C = 1 FORM C)

units: mm
tolerance: ±0.3 mm
unless otherwise noted

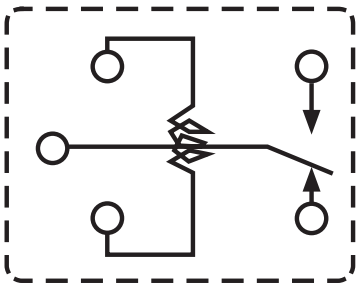
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Bottom View



Wiring Diagram
Bottom View

REVISION HISTORY

rev.	description	date
1.0	initial release	08/10/2022

The revision history provided is for informational purposes only and is believed to be accurate.

CUI Devices offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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