

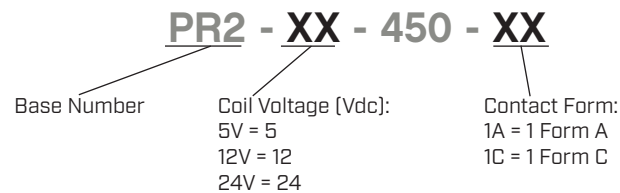
**SERIES:** PR2 | **DESCRIPTION:** POWER RELAY**FEATURES**

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

**MODEL**

	coil voltage typ (Vdc)	coil resistance ($\Omega \pm 10\%$)	operating 1 Form A min (Vdc)	voltage 1 Form C min (Vdc)	release voltage max (Vdc)	coil power max (mW)
PR2-5V-450-1A	5	55	3.5	3.5	0.5	450
PR2-12V-450-1A	12	320	8.4	8.4	1.2	450
PR2-24V-450-1A	24	1,280	16.8	16.8	2.4	450
PR2-5V-450-1C	5	55	3.5	3.5	0.5	450
PR2-12V-450-1C	12	320	8.4	8.4	1.2	450
PR2-24V-450-1C	24	1,280	16.8	16.8	2.4	450

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

PART NUMBER KEY

CONTACT SPECIFICATIONS

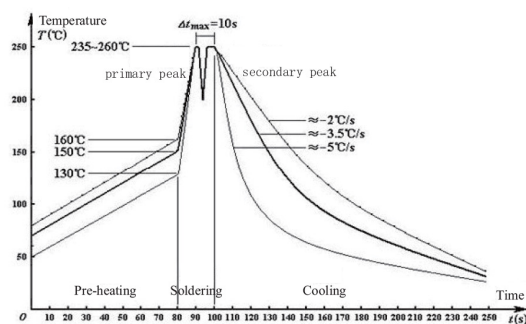
parameter	conditions/description	min	typ	max	units
contact form	1 Form A, 1 Form C				
contact material	Ag alloy				
contact rating	1 Form A: 5 A @ 250 Vac, 5 A @ 28 Vdc 1 Form C: NO/NC: 5 A / 3 A @ 250 Vac, 5 A / 3 A @ 28 Vdc				
contact resistance	at 6 Vdc, 1.0 A			100	mΩ
max switching voltage				250 28	Vac Vdc
max switching current				10	A
max switching power				1,250 280	VA W
min switching load	5 Vdc, 100 mA				
life	electrical 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 1A= between coil and contacts for 1 minute 1C= between coil and contacts for 1 minute		1,000 3,500 2,500		Vac 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			6.0		g
safety approvals	UL/cUL 508				
flammability rating	UL94V-0				
RoHS	yes				
packaging	box: 100 pcs per box carton size: 284 x 250 x 180 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

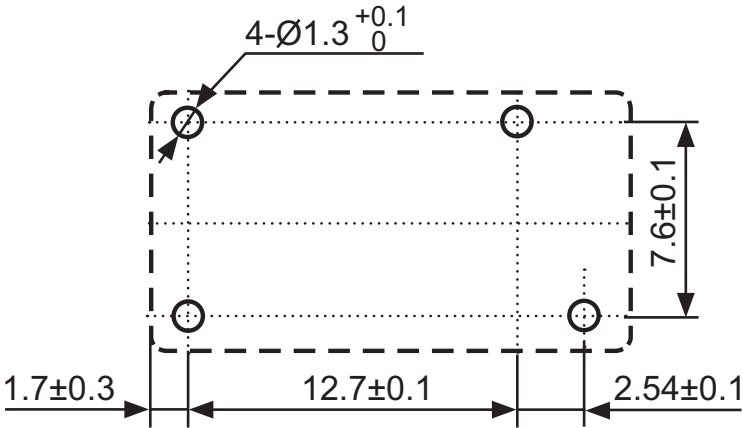
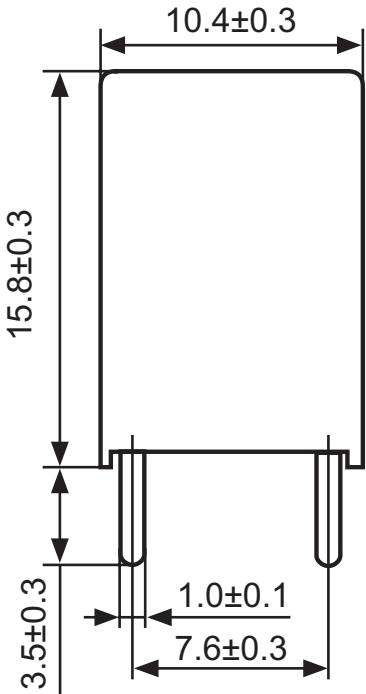
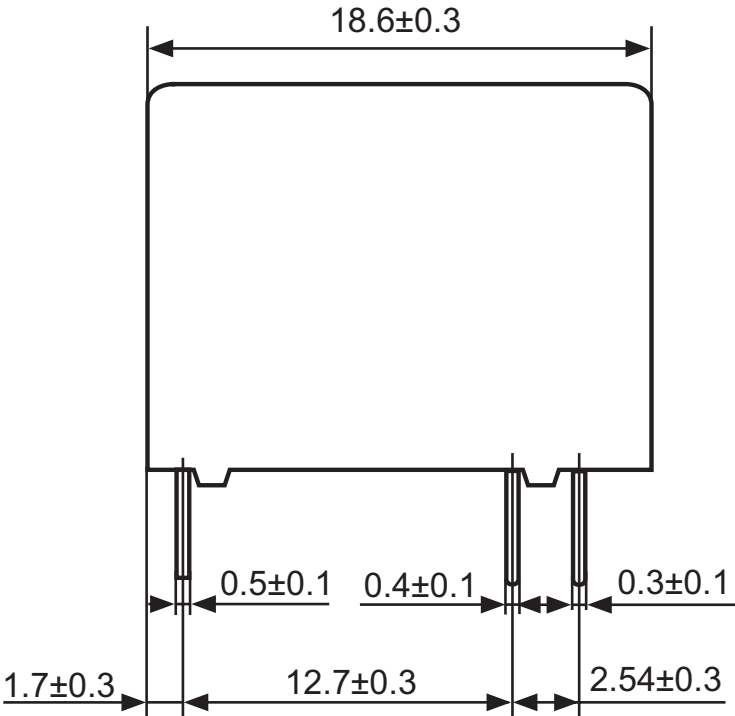


Double-wave Soldering Curve

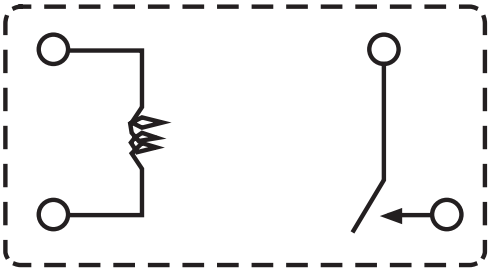
MECHANICAL DRAWING (1A = 1 FORM A)

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

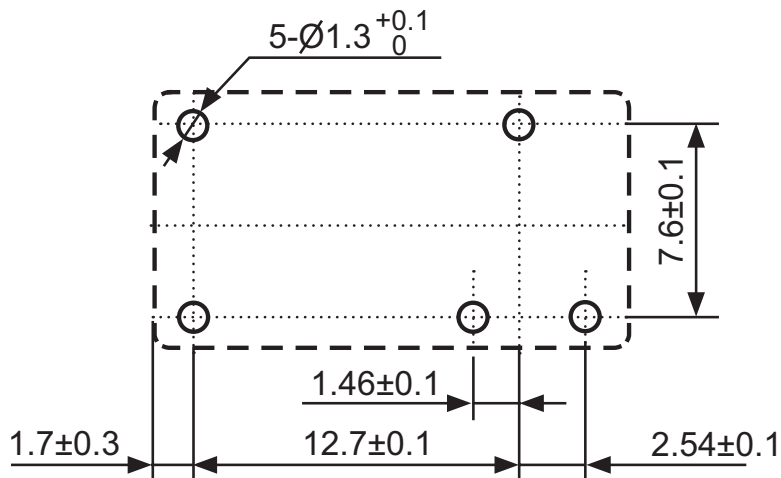
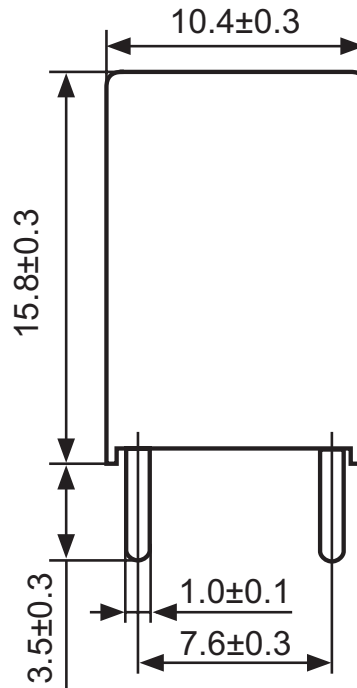
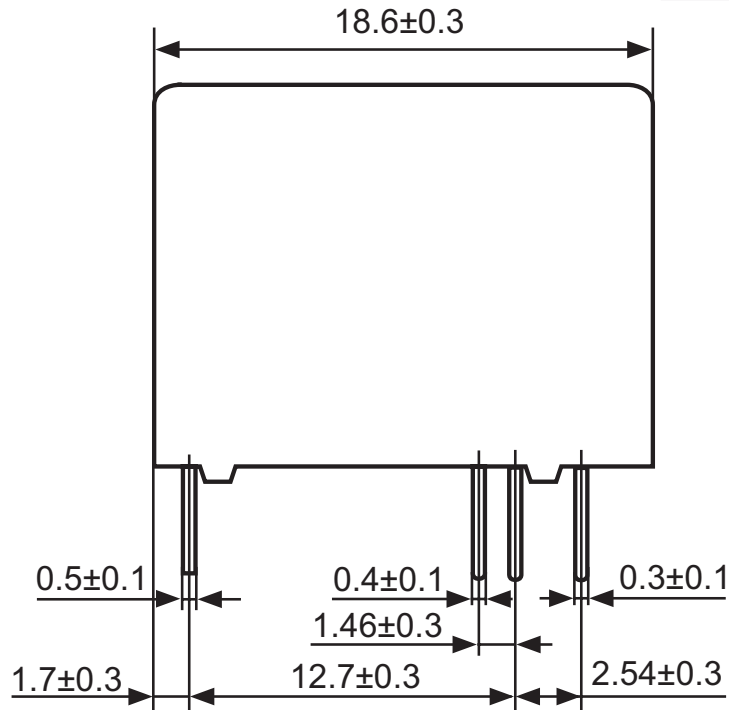


Wiring Diagram
Bottom View

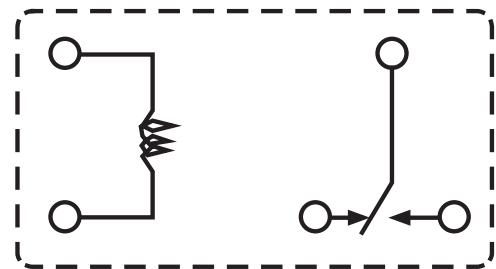
MECHANICAL DRAWING (1C = 1 FORM C)

units: mm
tolerance: ± 0.3 mm
unless otherwise noted

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



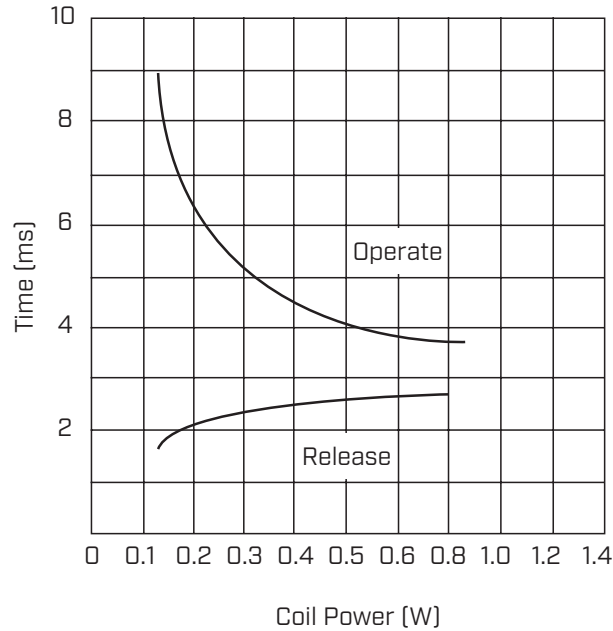
Recommended PCB Layout
Bottom View



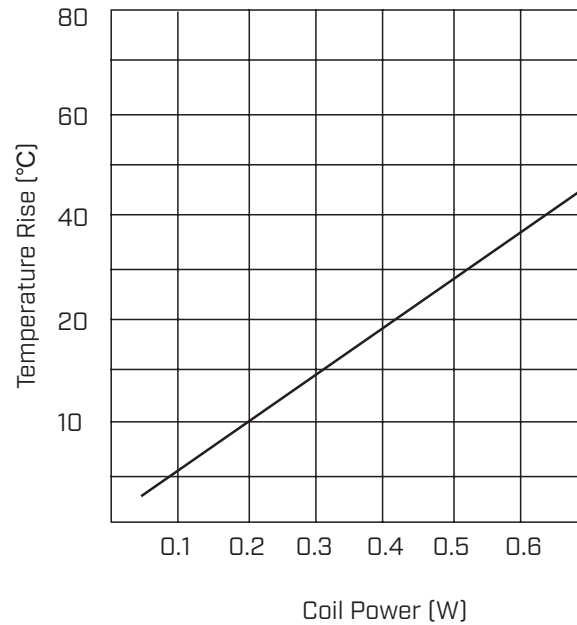
Wiring Diagram
Bottom View

CHARACTERISTIC CURVES

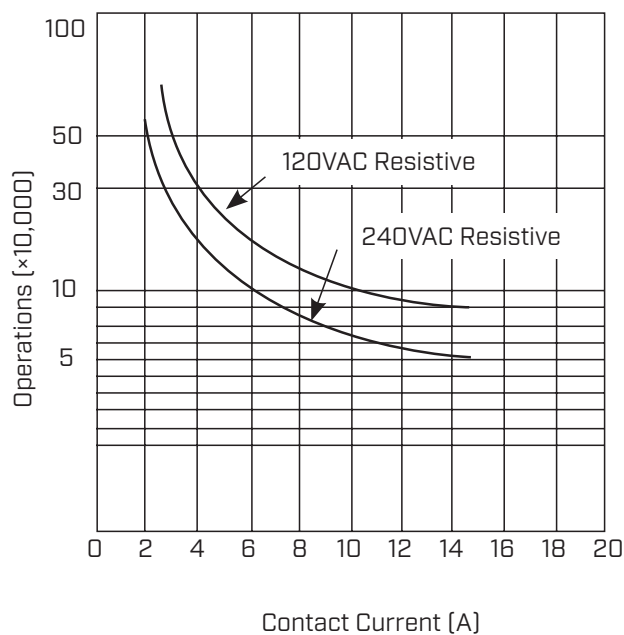
Time Curve



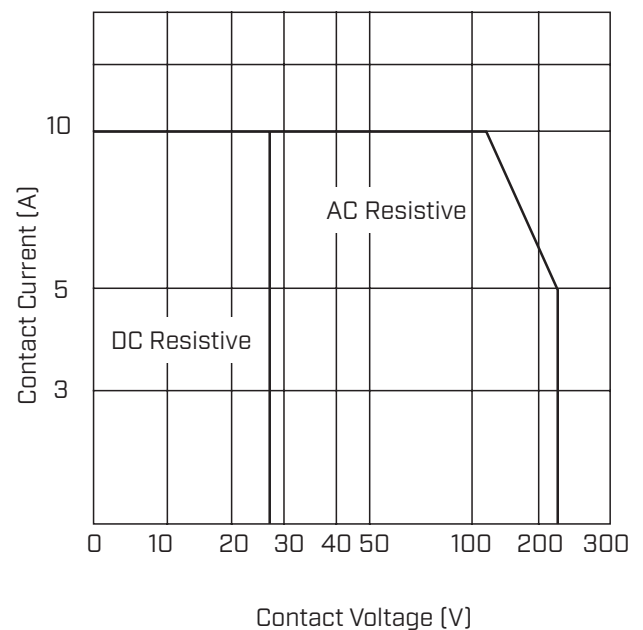
Coil Temperature Rise



Life Curve



Maximum Switching Power



REVISION HISTORY

rev.	description	date
1.0	initial release	08/09/2022

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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