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SERIES: PR9 | DESCRIPTION: POWER RELAY

FEATURES

- 5V/12V/24V
- SPST
- 200 mW

MODEL

MODEL	coil voltage typ (Vdc)	coil resistance (Ω±10%)	operating voltage min (Vdc)	release voltage max (Vdc)	coil power max (mW)
PR9-5V-200-1A	5	125	3.75	0.5	200
PR9-12V-200-1A	12	720	9.00	1.2	200
PR9-24V-200-1A	24	2,880	18.00	2.4	200

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

PART NUMBER KEY

PR9 - XX - 200 - 1A

Base Number

Coil Voltage (Vdc):
5V = 5
12V = 12
24V = 24

CONTACT SPECIFICATIONS

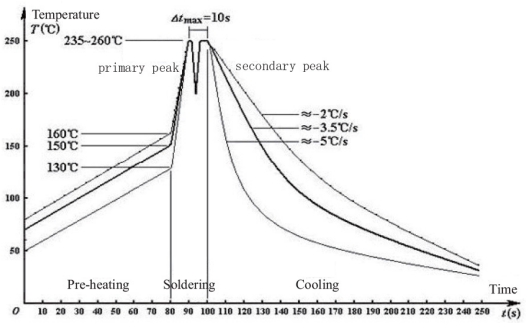
parameter	conditions/description	min	typ	max	units
contact form	1 Form A				
contact material	Ag alloy				
contact rating	16 A @ 250 Vac				
contact resistance	at 6 Vdc, 1.0 A			100	mΩ
max switching voltage				250 30	Vac Vdc
max switching current				16	A
max switching power				4,000 480	VA W
min switching load	5 Vdc, 100 mA				
life	electrical mechanical		50,000 1,000,000		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 4,000		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

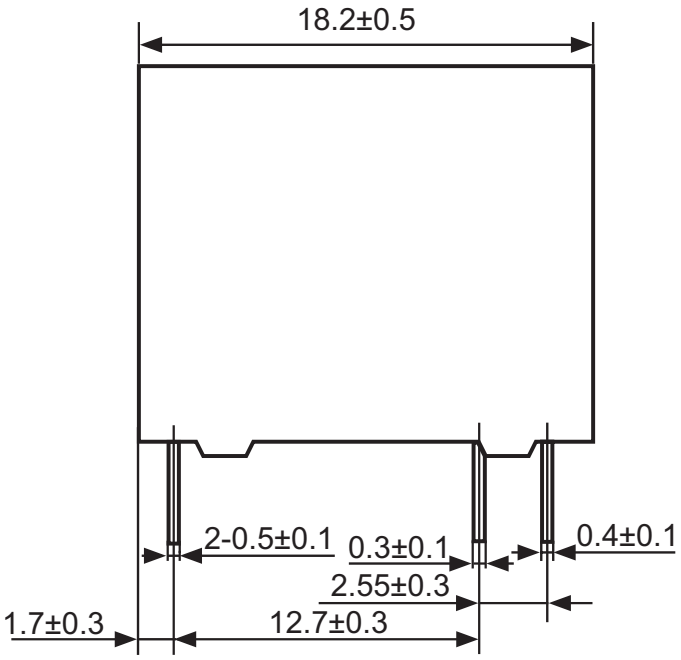


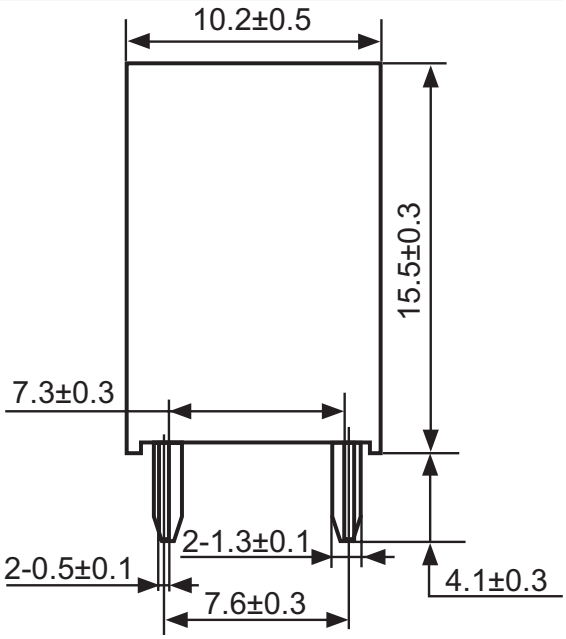
Double-wave Soldering Curve

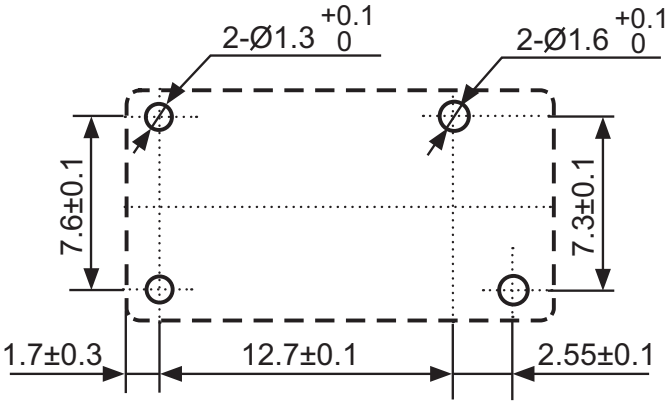
MECHANICAL DRAWING

units: mm
tolerance: ±0.3 mm
unless otherwise noted

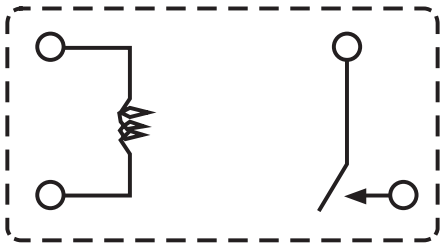
ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
A	housing	PBT (UL94V-0)	black
B	terminals	copper covered steel	tin







Recommended PCB Layout
Bottom View



Wiring Diagram
Bottom View

REVISION HISTORY

rev.	description	date
1.0	initial release	08/15/2022
1.01	CUI Devices rebranded to Same Sky	09/12/2024

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

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