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SERIES: SR1 | DESCRIPTION: SIGNAL RELAY

FEATURES

- 3~24 Vdc coil voltage
- 450 mW coil power
- contact form 1C





MODEL	coil voltage	coil resistance	operating voltage	release voltage	coil power
	typ (Vdc)	(Ω±10%)	min (Vdc)	max (Vdc)	typ (mW)
SR1-3V-450-1C	3	20	2.1	0.3	450
SR1-5V-450-1C	5	55	3.5	0.5	450
SR1-9V-450-1C	9	180	6.3	0.9	450
SR1-12V-450-1C	12	320	8.4	1.2	450
SR1-24V-450-1C	24	1,280	16.8	2.4	450

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

PART NUMBER KEY

SR1 - XX - 450 - 1C

Base Number

Coil Voltage (Vdc):

3V = 3 5V = 5

9V = 9

12V = 12 24V = 24

CONTACT SPECIFICATIONS

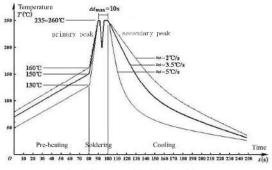
parameter	conditions/description	min	typ	max	units
contact form	1 Form C				
contact material	AuAg overlay				
contact rating	1 A @ 120 Vac 1 A @ 24 Vdc				
contact resistance	at 6 Vdc, D.1 A			50	mΩ
max switching voltage				120 30	Vac Vdc
max switching current				2	А
max switching power				120 30	VA W
min switching load	5 Vdc, 10 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	100			МΩ	
dielectric strength between open contacts for 1 minute between coil and contacts for 1 minute			500 500		Vac Vac	
operate time		6		6	ms	
release time				4	ms	
shock resistance endurance misoperation			1,000 100		m/s² m/s²	
vibration resistance endurance: 10~55 Hz, 1.5 mm double amplitude misoperation: 10~55 Hz, 1.5 mm double amplitude						
operating temperature		-25		70	°C	
umidity at 40°C		35		95	%RH	
weight			1.7		g	
safety approvals UL/cUL 508						
flammability rating UL94V-0						
RoHS	yes					
packaging	tube: 25 pcs per tube carton size: 332 x 302 x 148 mm carton QTY: 2,000 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

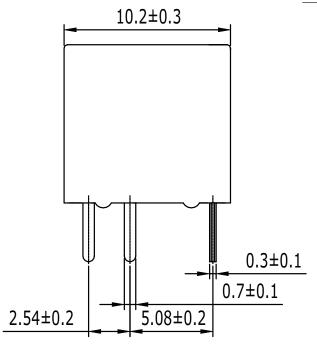


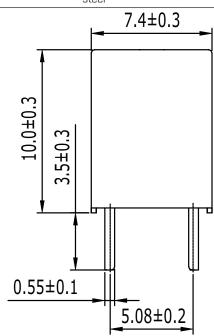
Double-wave Soldering Curve

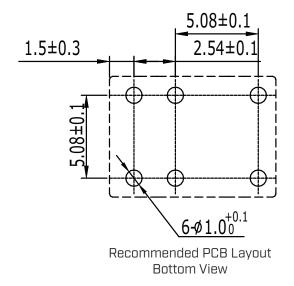
MECHANICAL DRAWING

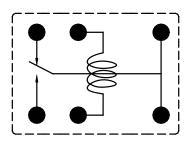
units: mm tolerance: ±0.3 mm unless otherwise noted

ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
Α	housing	PBT (UL94V-0)	orange
В	terminals	copper covered steel	tin



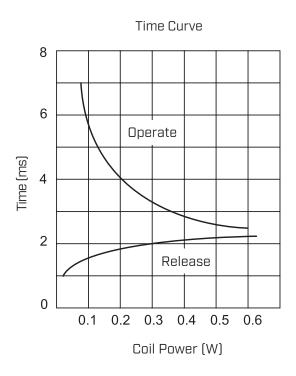


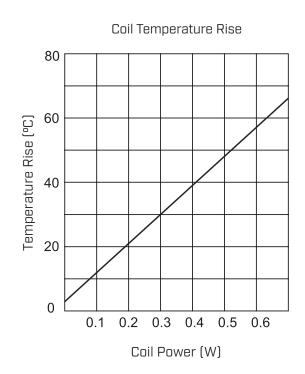


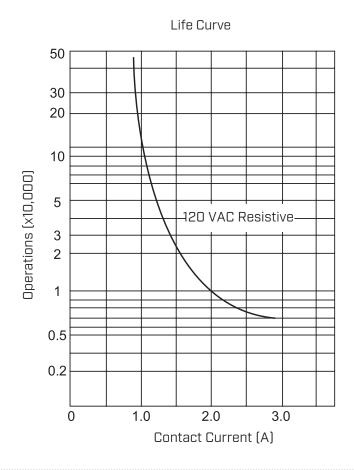


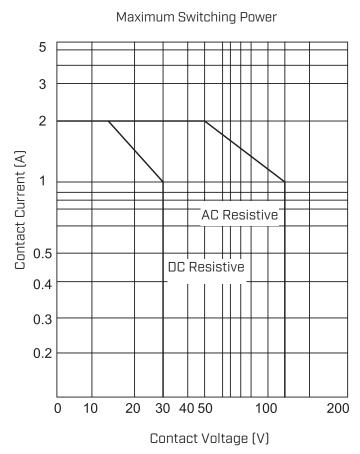
Wiring Diagram Bottom View

CHARACTERISTIC CURVES









REVISION HISTORY

rev.	description	date	
1.0	initial release	06/07/2022	
1.01	logo, datasheet style update	10/27/2022	

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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