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same sky

SERIES: PR22 | DESCRIPTION: POWER RELAY

FEATURES

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



MODEL

MODEL	coil voltage typ (Vdc)	coil resistance (Ω±10%)	operating voltage min (Vdc)	release voltage max (Vdc)	coil power max (mW)
PR22-5V-400-1A	5	62.5	3.5	0.5	400
PR22-12V-400-1A	12	360	8.4	1.2	400
PR22-24V-400-1A	24	1,440	16.8	2.4	400
PR22-5V-400-1C	5	62.5	3.5	0.5	400
PR22-12V-400-1C	12	360	8.4	1.2	400
PR22-24V-400-1C	24	1,440	16.8	2.4	400

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

PART NUMBER KEY

PR22 - XX - 400 - XX

- PR22: 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

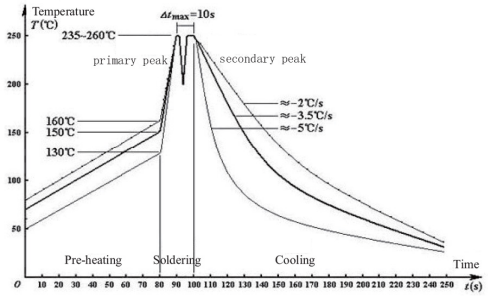
parameter	conditions/description	min	typ	max	units
contact form	1 Form A, 1 Form C				
contact material	Ag alloy				
contact rating	16 A @ 250 Vac 16 A @ 30 Vdc				
contact resistance	at 6 Vdc, 1.0 A			100	mΩ
max switching voltage				440 120	Vac Vdc
max switching current				16	A
max switching power				4,000 480	VA W
min switching load	5 Vdc, 100 mA				
life	electrical mechanical		100,000 20,000,000		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 5,000		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			13.0		g
safety approvals	UL/cUL 508				
flammability rating	UL94V-0				
RoHS	yes				
packaging	tube: 25 pcs per tube carton size: 388 x 360 x 154 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

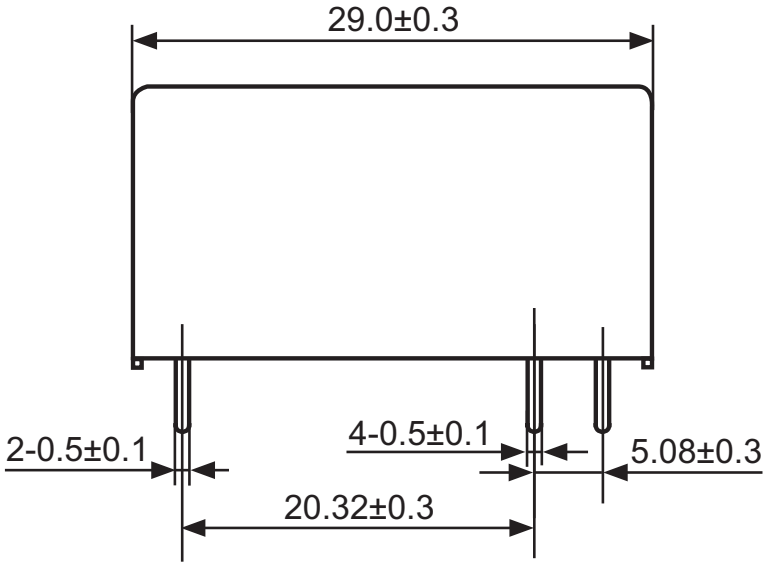


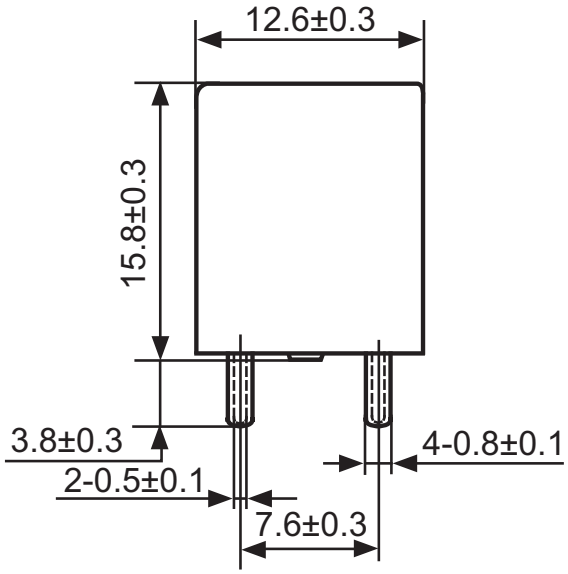
Double-wave Soldering Curve

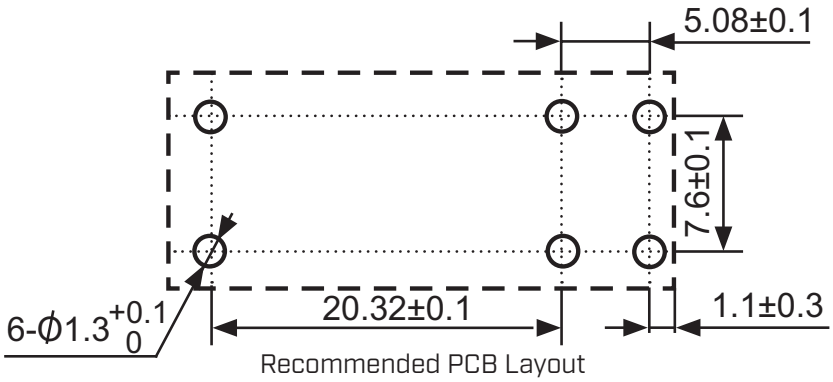
MECHANICAL DRAWING (1A = 1 FORM A)

units: mm
tolerance: ±0.3 mm
unless otherwise noted

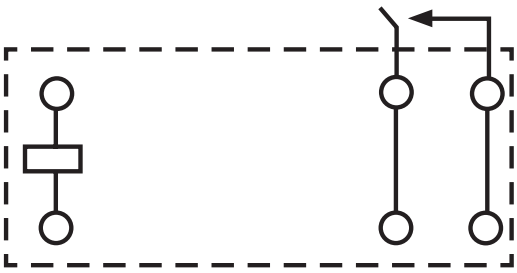
ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
A	housing	PBT (UL94V-0)	black
B	terminals	copper covered steel	tin







Recommended PCB Layout
Bottom View

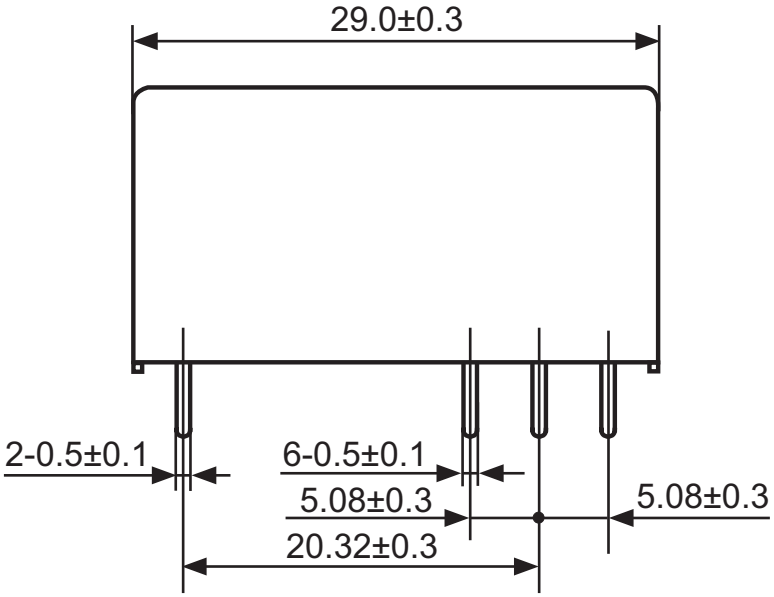


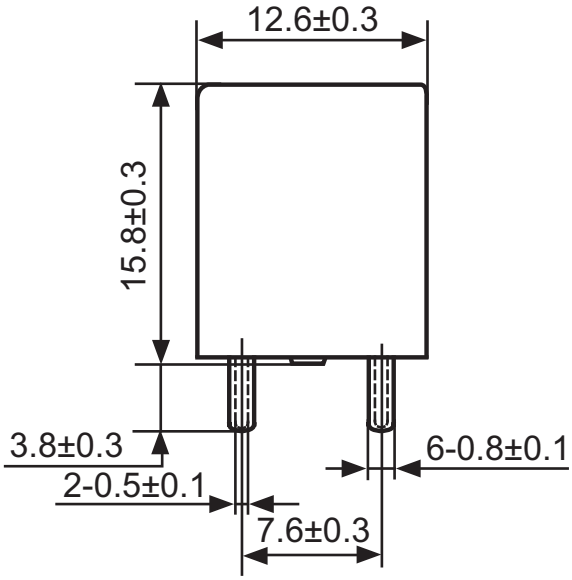
Wiring Diagram
Bottom View

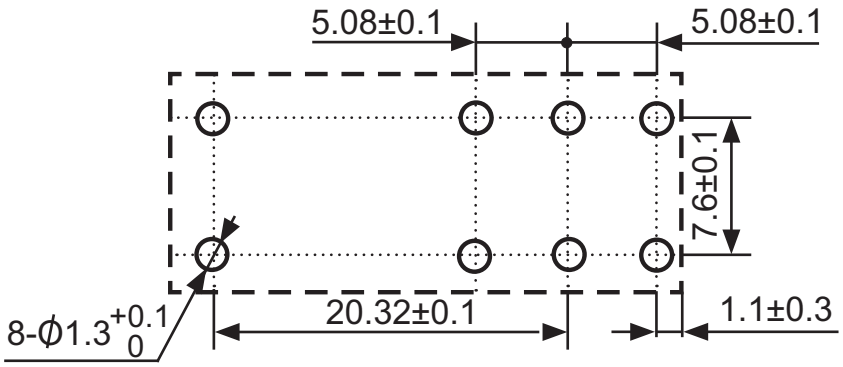
MECHANICAL DRAWING (1C = 1 FORM C)

units: mm
tolerance: ±0.3 mm
unless otherwise noted

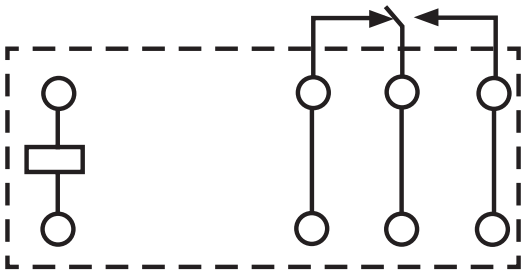
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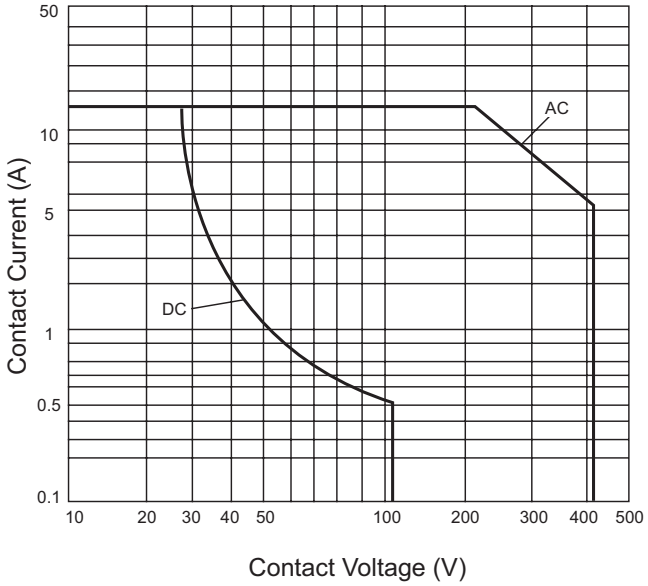
Recommended PCB Layout
Bottom View



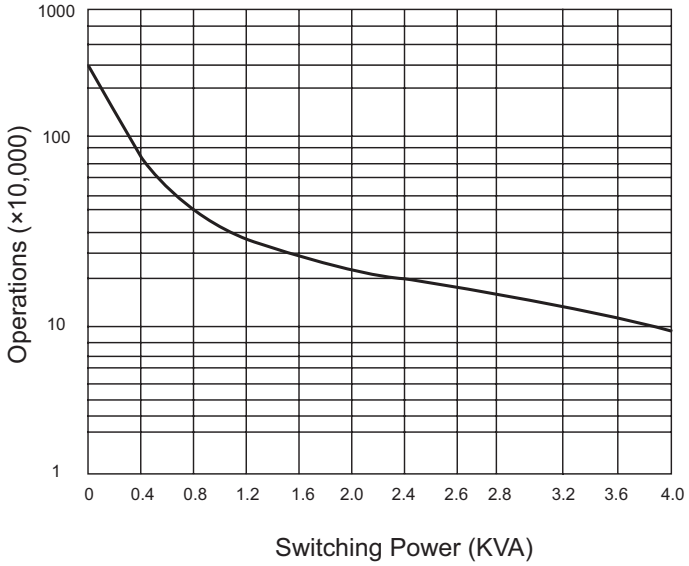
Wiring Diagram
Bottom View

CHARACTERISTIC CURVES

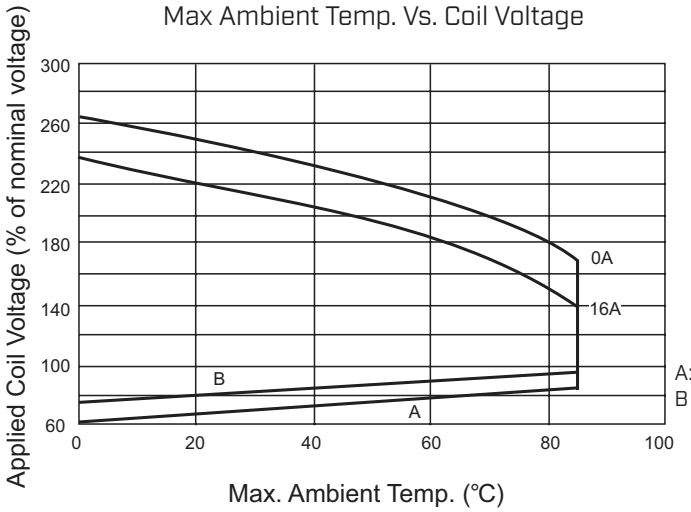
Maximum Switching Power



Life Curve



Max Ambient Temp. Vs. Coil Voltage



A: Coil Temperature = Ambient Temperature
B : 110% of nominal coil voltage at rated contact load

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.

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

Same Sky reserves the right to make changes to the product at any time without notice. Information provided by Same Sky is believed to be accurate and reliable. However, no responsibility is assumed by Same Sky for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.