

## Micro Miniature High Sensitivity Signal Relays



### DESCRIPTION

A range of Micro Miniature High Sensitivity SPDT Signal Relays. These general purpose, single pole, through hole mounting relays are designed for switching small measurement and control signals within circuits.

### DISTINCTIVE FEATURES

- Micro miniature size
- Light weight construction
- Contact 1 Form C
- SPDT contact configuration
- PCB mounting
- High sensitivity of 150mW
- Fully Sealed Construction

### APPLICATIONS

The small dimensions and lightweight construction of these micro miniature high sensitivity signal relays make them suitable for a wide variety of applications, including communications, measurement, automation control and audio visual equipment.

2A

UL

CSA

SPDT





## ELECTRICAL SPECIFICATION

Contact Form	1 Form C
Contact Rating	1A/2A 125VAC/24VDC
Contact Resistance	Max. 50mΩ (6VDC 0.1A)
Insulation Resistance	Min. 1,000MΩ 500VDC
Max Switching Voltage	125VAC/30VDC
Max Switching Current	2A
Max Switching Power	250VA, 48W
Min Switching Load	5VDC, 10mA
Between Open Contacts	500VAC, 1min
Between Coil & Contacts	1000VAC, 1min

Coil Data (Ambient Temperature 23°C)	Coil Power mW	Nominal Voltage VDC	Coil Resistance Ω+/-10%	Operating Voltage ≤VDC	Release Voltage ≥VDC
61-6283	150	3	60	2.25	0.3
61-6284	150	9	540	6.75	0.9
61-6285	150	12	960	9	1.2



## GENERAL SPECIFICATION

Series	Micro miniature high sensitivity signal relays
Mounting Type	PCB mounting
RoHS	Yes



## MATERIALS

Contact Material	AuAg overlay
Outer Case Material	PBT Plastic sealed



## CERTIFICATION AND STANDARDS

File Number	Contact Form	Power Consumption	Coil Voltage	Contact rating	Remarks
UL E164730	C	0.15W	3-24VDC	1A 125VAC/24VDC	Ambient Temperature: 70°C
	C	0.15W	3-24VDC	2A 125VAC/24VDC	Ambient Temperature: 70°C
CSA 1369391(LR 109368)	C	0.15W	3-24VDC	1A 125VAC/24VDC	Ambient Temperature: normal



## ENVIRONMENTAL/OPERATING SPECIFICATION

Electrical Life	100,000 operations	
Mechanical Life	5,000,000 operations	
Operate Time	Max. 5ms	
Release Time	Max. 5ms	
Operating Temperature	-40°C to +70°C	
Humidity	35~95%RH, +40°C	
Shock Resistance	Endurance	1,000m/s <sup>2</sup>
	Misoperation	100m/s <sup>2</sup>
Vibration Resistance	Endurance	10~55Hz, 1.5mm double amplitude
	Misoperation	10~55Hz, 1.5mm double amplitude



## TERMINALS

Terminal Type	Solder pins
Terminal Dimensions	See drawing page 4



## OPTIONS (MOQ may apply)

Also available with a coil voltage of	5, 6 & 24 VDC
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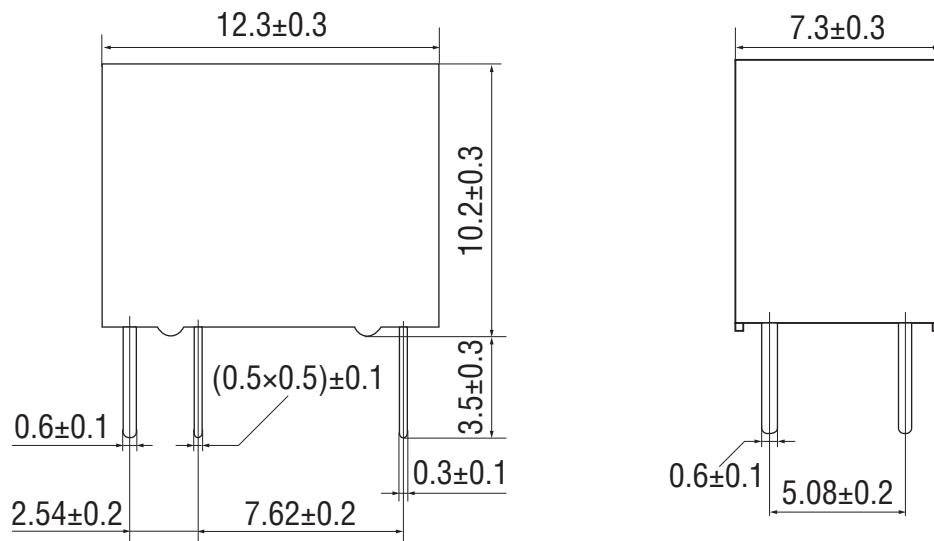


## DIMENSIONS/DRAWINGS

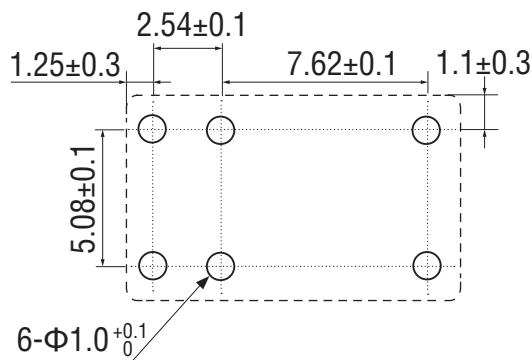
Units	mm - unless stated otherwise
Dimensions (Summary)	12.3 x 7.3 x 10.2mm
Length	12.3mm
Width	7.3mm
Height (Excluding pins)	10.2mm
Weight	2.2g



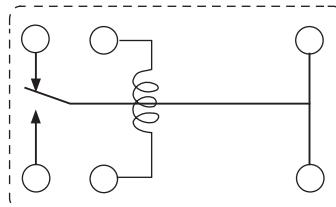
### Outline



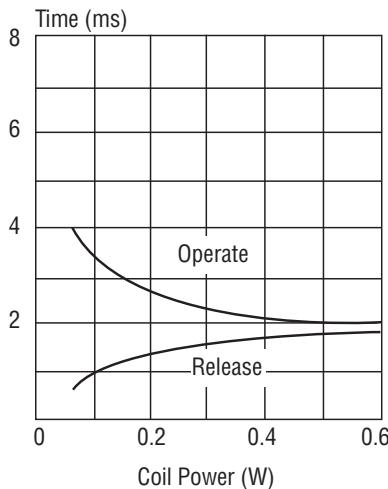
**Mounting Hole Layout**  
(Bottom View)



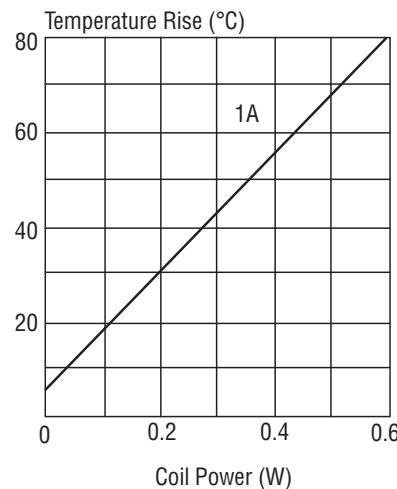
**Wiring Diagram**  
(Bottom View)



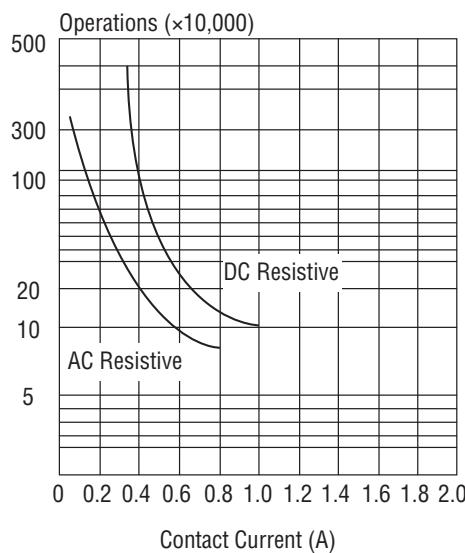
### Time Curve



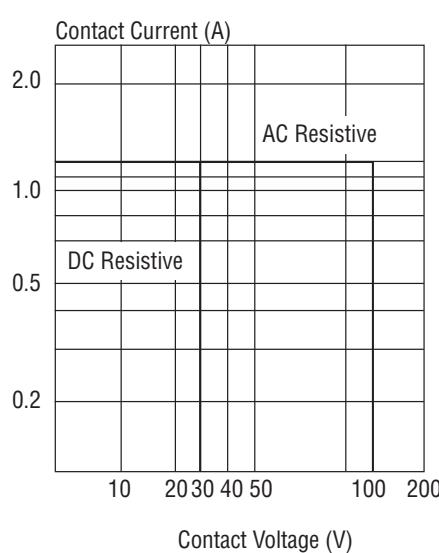
### Coil Temperature Rise



### Life Curves



### Maximum Switching Power



### PART NUMBER TABLE

Part number	Nominal Coil Voltage	UNSPSC	EAN	Country of Origin
<b>61-6283</b>	3 VDC	39122325	5053556008308	China
<b>61-6284</b>	9 VDC	39122325	5053556008315	China
<b>61-6285</b>	12 VDC	39122325	5053556008322	China

For further information on pricing, delivery, and long-term stock agreements please contact your local business development person, telephone our main office on **01206 838000** or email **Sales@Rapidonline.com**.



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