High Sensitivity PCB Relay, 5A

DESCRIPTION

High Sensitivity double pole Power Relays. These high sensitivity, double pole, through hole mounting relays are designed for switching control signals within circuits.

DISTINCTIVE FEATURES

- Fully Sealed Construction
- DPST or DPDT Contact Configuration
- Contact Form: 2 Form A, 2 Form C
- PCB Mounting

APPLICATIONS

These relays are suitable for a wide range of applications including automotive electronics, automation control, audio amplification, and industrial equipment.

5A

2 Form A

2 Form C

250V AC

30V DC

ELECTRICAL SPECIFICATION

Contact Form	2 Form A, 2 Form C (See Part Number Table)	
Contact Rating	Resistive	5A 250VAC/24VDC
	TV Rating:	TV-5
	Inductive	5A 250VAC/24VDC (COSΦ=0.4, L/R=7ms)
Contact Resistance	Maximum	100mΩ (6VDC 1A)
Insulation Resistance	Minimum	1000MΩ 500VDC
Load	Maximum Switching Voltage	250VAC/30VDC
	Maximum Switching Current	5A
	Maximum Switching Power	1,250VA, 150W
	Minimum Switching Load	5VDC, 100mA
Dielectric Strength	Between open contacts	1,000VAC, 1min
	Between coil and contacts	4,000VAC, 1min

Coil Data

Ambient Temperature: 23°C

Part number	Nominal Voltage VDC	Coil Resistance Ω+/-10%	Operate Voltage ≤VDC	Release Voltage ≥VDC	Coil Power mW
61-6302	12	267	9.0	1.2	540
61-6303	24	1067	18.0	2.4	

GENERAL SPECIFICATION

Series	High Sensitivity Signal Relays
Mounting Type	PCB mounting
RoHS	Yes

MATERIALS

Contact Material	Ag Alloy
Outer Case Material	PBT Plastic sealed

CERTIFICATION AND STANDARDS

File Number	Contact Form	Power Consumption	Coil Voltage	Contact rating	Remarks
UL E164730	A	0.72W/0.54W	3-48VDC	TV-5	Ambient Temperature: 40°C
	A/C	0.72W/0.54W	3-48VDC	5A 120VAC	
	A	0.72W/0.54W	3-48VDC	12A 24VDC	
CSA 1063015(LR 106040)	A/C	0.72W/0.54W	3-48VDC	5A 120VAC	—
TUV 50134947-001	A/C	0.72W/0.54W	3-48VDC	5A 250VAC	Ambient Temperature: 85°C
CQC09002035018 (GB/T 21711.1-2008)	A/C	0.72W/0.54W	3-48VDC	5A 250VAC	Class F Insulation Ambient Temperature: 85°C

Specifications subject to change without notice.

ENVIRONMENTAL/OPERATING SPECIFICATION

Life	Electrical	100,000 operations
		20,000 operations (COSΦ=0.4, L/R=7ms)
	Mechanical	10,000,000 operations
Operate Time	Maximum 15ms	
Release Time	Maximum 8ms	
Operating Temperature	–30~+70°C (540mW)	
Humidity	35~95%RH,+40°C	
Shock Resistance	Endurance	1,000m/s^2
	Misoperation	100m/s^2
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 on page 4 and 5

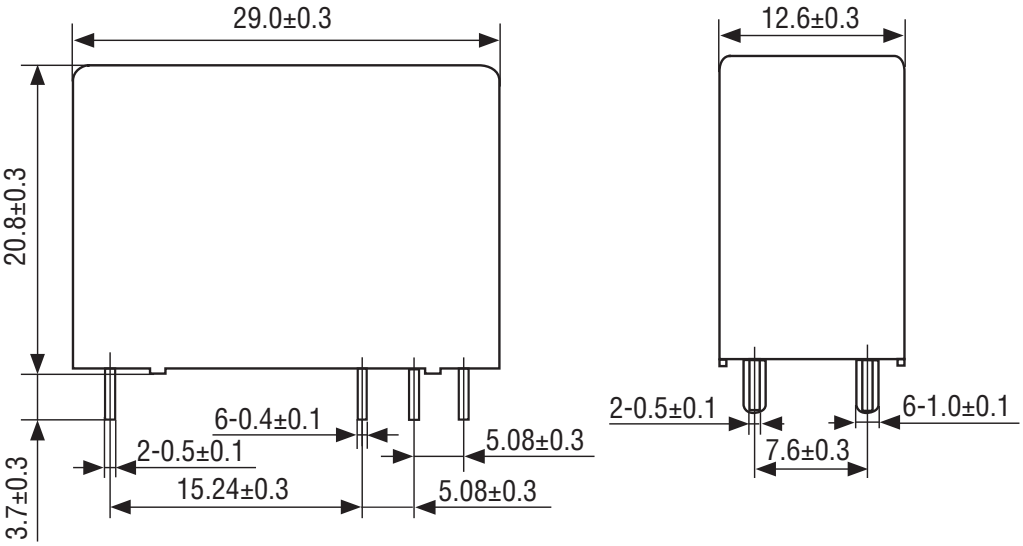
DIMENSIONS/DRAWINGS

Units	mm - unless stated otherwise
Dimensions (Summary)	29.0 x 12.6 x 20.8
Length	29.0
Width	12.6
Height (Excluding pins)	20.8
Weight	13g (approx.)

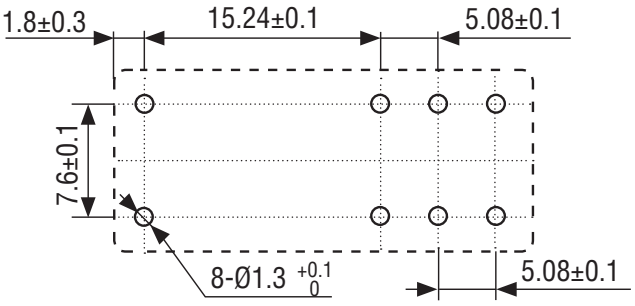
OUTLINE, WIRING DIAGRAM, MOUNTING HOLE LAYOUT (UNIT: mm)

2 Form C

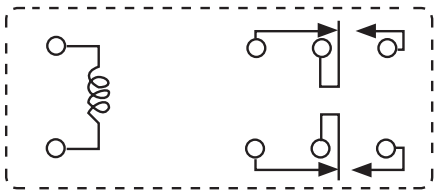
Outline



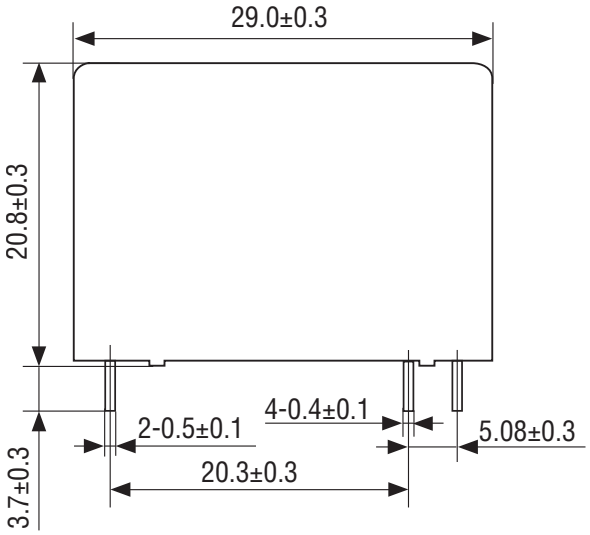
Mounting Hole Layout
(Bottom View)

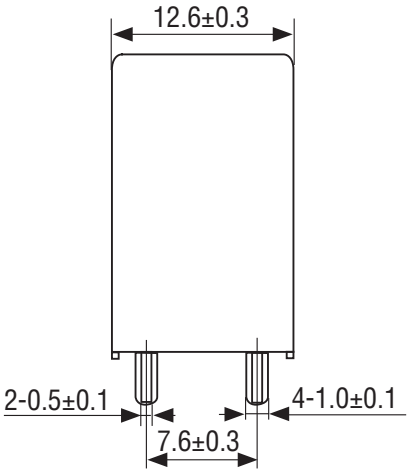


Wiring Diagram
(Bottom View)

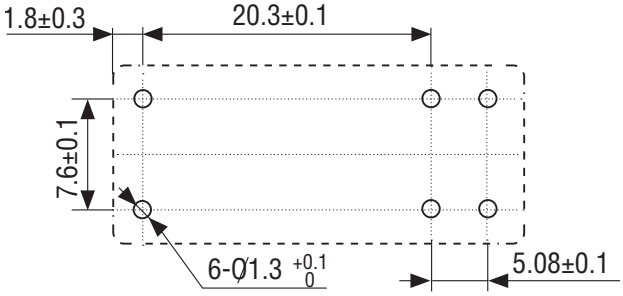


2 Form A Outline





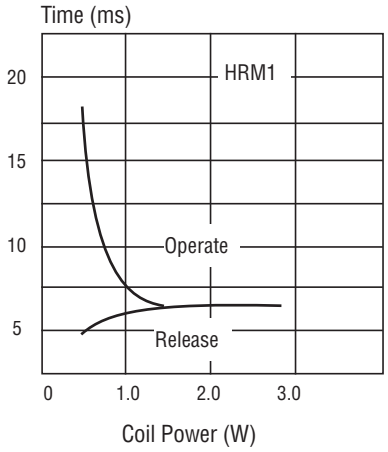
Mounting Hole Layout
(Bottom View)



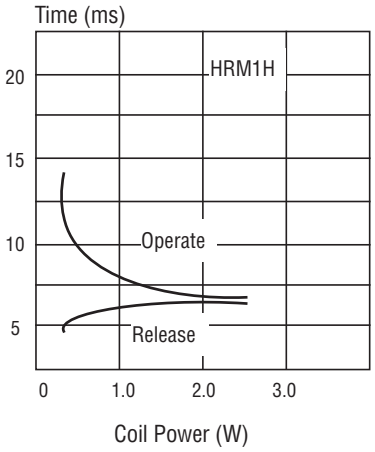
Wiring Diagram
(Bottom View)

REFERENCE DATA

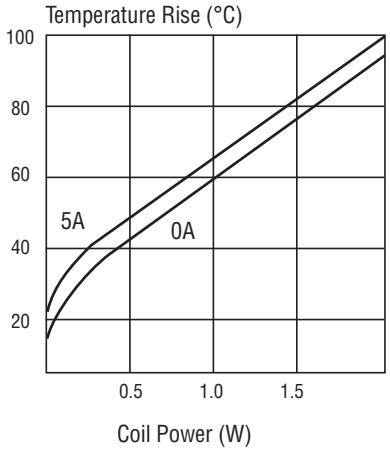
Time Curve (standard)



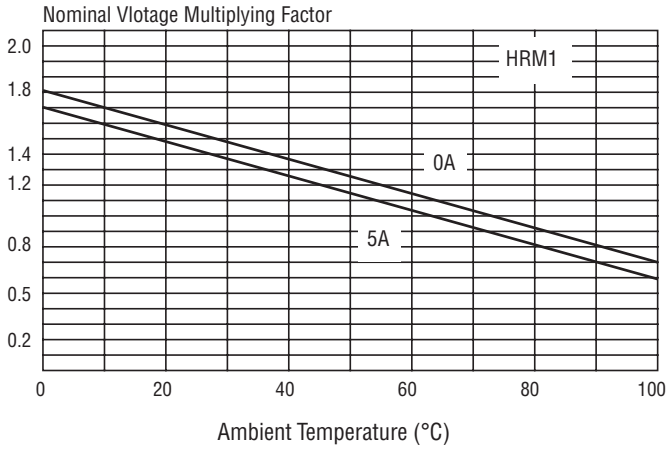
Time Curve(high sensitive)



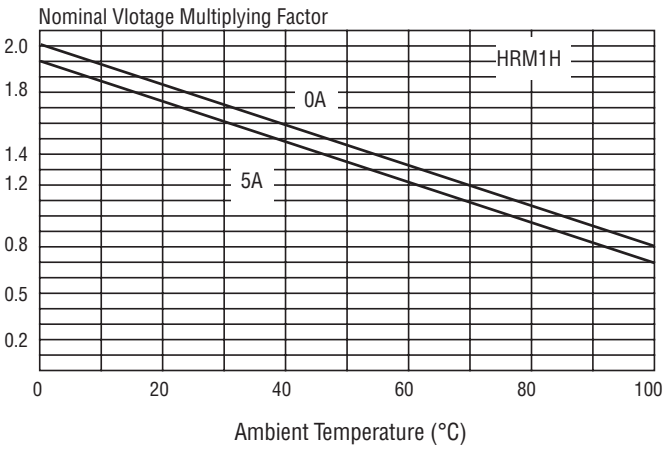
Coil Temperature Rise



Operating Range



Operating Range



OPTIONS (MOQ may apply)

Coil Voltage	3, 5, 6, 9, 12, 24 and 48V
Coil Sensitivity	Standard (720mW)
Contact Form	2 Form A
Contact Configuration	DPST

PART NUMBER TABLE

Part number	Nominal Coil Voltage	Contact Form	Enclosure	Coil Sensitivity	UNSPSC	EAN	Country of Origin
61-6202	12 VDC	2 Form C	Sealed	High (540mW)	39122325	5053556018819	China
61-6203	24 VDC	2 Form C	Sealed	High (540mW)	39122325	5053556018826	China

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

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