



Relays & Solenoids

OMRON_PCB Relays

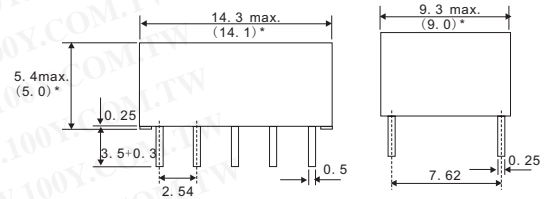
Detailed product specifications are available on: us.100y.com.tw



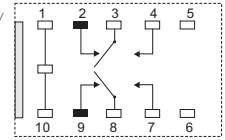
- Compact size and low 5-mm profile.
- Low power consumption (140 mW for single-side stable, 100 to 300 mW for latching type) and high sensitivity.
- Low thermoelectromotive force.
- Low magnetic interference enables high-density mounting.
- Single- and double-winding latching types also available.

CHARACTERISTICS

Contact resistance: 50 mΩ max. (G6H-2-U: 100 mΩ max.; G6H-2F: 60 mΩ max.)
 Operate (set) time: Single-side stable types: 3 ms max. (mean value: approx. 2 ms)
 Latching types: 3 ms max. (mean value: approx. 1.5 ms)
 Release (reset) time: Single-side stable types: 2 ms max. (mean value: approx. 1 ms)
 Latching types: 3 ms max. (mean value: approx. 1.5 ms)
 Bounce time: Operate: Approx. 0.5 ms
 Release: Approx. 0.5 ms
 Set/reset: Approx. 0.5 ms
 Min. set/reset signal width: Latching type: 5 ms min. (at 23°C)
Latching type: 5 ms min. (at 23jāC)
 Insulation resistance: 1,000 MΩ min. (at 500 VDC)
 Dielectric withstand voltage: 1,000 VAC, 50/60 Hz for 1 min between coil and contacts
 1,000 VAC, 50/60 Hz for 1 min between contacts of different polarity
 750 VAC, 50/60 Hz for 1 min between contacts of same polarity
 Impulse withstand voltage: 1,500 V (10 x 160 μs) between contacts of same polarity (conforms to FCC Part 68)



Terminal arrangement/
Internal connections
(Bottom view)



Vibration resistance: Destruction: 10 to 55 to 10 Hz, 2.5-mm single amplitude (5-mm double amplitude)
 Malfunction: 10 to 55 to 10 Hz, 1.65-mm single amplitude (3-mm double amplitude)
 Shock resistance: Destruction: 1,000 m/s²
 Malfunction: 500 m/s²
 Endurance: Mechanical: 100,000,000 operations min. (at 36,000 operations/hr)
 Electrical: 200,000 operations min. (at 1,800 operations/hr)
 Ambient temperature: Operating: -40°C to 70°C (with no icing)
 Ambient humidity: Operating: 5% to 85%
 Weight: Approx. 1.5 g

Part No.	Product No.	Manufacturer	Description	Outline L*W*H	Contact Arrangement	Contact Rating	Coil Voltage	Recognized Safety	Type
35757	G6H-2-DC12V	OMRON	OMRON_PCB Relay	14.3mm x 9.3mm x 6.6mm	DPDT	0.5 A at 125 VAC, 1 A at 30 VDC	12VDC	UL, CSA	PCB terminal
36545	G6H-2-DC24V	OMRON	OMRON_PCB Relay	14.3mm x 9.3mm x 6.6mm	DPDT	0.5 A at 125 VAC, 1 A at 30 VDC	24VDC	UL, CSA	PCB terminal
36540	G6H-2-DC3V	OMRON	OMRON_PCB Relay	14.3mm x 9.3mm x 6.6mm	DPDT	0.5 A at 125 VAC, 1 A at 30 VDC	12VDC	UL, CSA	PCB terminal
36542	G6H-2-DC5V	OMRON	OMRON_PCB Relay	14.3mm x 9.3mm x 6.6mm	DPDT	0.5 A at 125 VAC, 1 A at 30 VDC	5VDC	UL, CSA	PCB terminal
36543	G6H-2-DC6V	OMRON	OMRON_PCB Relay	14.3mm x 9.3mm x 6.6mm	DPDT	0.5 A at 125 VAC, 1 A at 30 VDC	6VDC	UL, CSA	PCB terminal
36544	G6H-2-DC9V	OMRON	OMRON_PCB Relay	14.3mm x 9.3mm x 6.6mm	DPDT	0.5 A at 125 VAC, 1 A at 30 VDC	9VDC	UL, CSA	PCB terminal

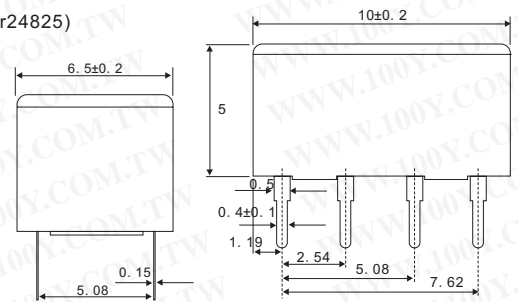


- Subminiature model as small as 5.2 (H) x 6.5 (W) x 10 (L) mm is ideal for high-density mounting.
- Low profile of 5.2 mm and weight of only 0.7 g combine to improve mounting efficiency.
- Models with inside-L surface mounting terminals are available.
- Consumes approximately 70% the power of a conventional OMRON model and operates at a current that is as low as 100 mW.
- Surface mounting terminal models incorporate a unique terminal structure with high infrared irradiation efficiency which allows the terminal temperature to rise easily when mounting the IRS, thus ensuring excellent soldering.
- Ensures a dielectric strength of 1,500 VAC and conforms to FCC Part 68 (i.e., withstanding an impulse withstand voltage of 1,500 V for 10 x 160 μs).
- New-Y models offer an impulse withstand voltage of 2,500 V for 2 x 10 μs (conforms to Bellcore specifications) by optimizing the distance between coil and contacts.
- Conforms to UL1950 (File No. E41515)/CSA C22.2 No. 950 (File No. Lr24825)

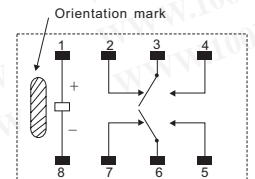


CHARACTERISTICS

Contact resistance (see note 1): 100 mΩ max.
 Operating (set) time (see note 2): 3 ms max. (approx. 1.2 ms)
 Release (reset) time (see note 2): 3 ms max. (approx. 1.2 ms)
 Insulation resistance (see note 3): 1,000 MΩ min. (at 50D VDC)
 Vibration resistance: Destruction: 10 to 55 Hz, 2.5-mm single amplitude (5-mm double amplitude)
 and 55 to 500 Hz, 300 m/s² (approx. 30G)
 Malfunction: 10 to 55 Hz, 1.65-mm single amplitude (3.3-mm double amplitude)
 and 55 to 500 Hz, 200 m/s² (approx. 20G)
 Shock resistance: Destruction: 1,000 ms² (approx. 100G)
 Malfunction: 750 ms² (approx. 75G)
 Endurance: Mechanical: 50,000,000 operations min. (at 36,000 operations/hour)
 Electrical: 100,000 operations min. (with a rated load at 1,800 operations/hour)
 Failure rate (P level) (see note 4): 10μA at 10 mVDC
 Ambient temperature: Operating: -40°C to 70°C (with no icing or condensation)
 Ambient humidity: Operating: 5% to 85%
 Weight: Approx. 0.7 g



Terminal arrangement/
Internal connections
(Bottom view)



Part No.	Product No.	Manufacturer	Description	Outline L*W*H	Contact Arrangement	Contact Rating	Coil Voltage	Recognized Safety	Type
28300	G6K-2P-DC5V	OMRON	OMRON_PCB Relay	10*6.5*5.2mm	DPDT	0.3A/125VAC,1A/30VDC	5VDC	JAPAN,UL,CSA	G6K-2P



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