

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Omron G2E-134P-H-M-US-DC12

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>

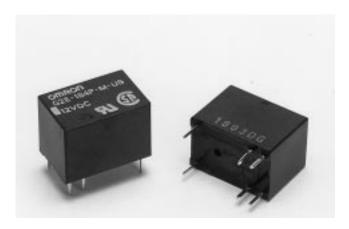


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PCB Relay



- Miniature: 15.5 x 10.5 x 11.5 mm (L x W x H).
- Low power consumption: 200 mW.
- Bifurcated crossbar contacts.
- Gold-clad contacts.
- Plastic-sealed type available.
- Ideal for telecommunications equipment and security systems.



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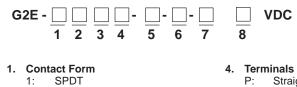
Ordering Information

Contact		General-purpose	High-sensitivity	
		Plastic-sealed	Plastic-sealed	
SPDT Single crossbar		G2E-184P-M-US	G2E-184P-H-M-US	
	Bifurcated crossbar	G2E-134P-M-US	G2E-134P-H-M-US	

Note: When ordering, add the rated coil voltage to the model number. Example: G2E-184P-M-US 12 VDC

Rated coil voltage

Model Number Legend:



- Contact Type 2.
- Bifurcated crossbar 3: Single crossbar 8:
- 3. Enclosure Rating
 - Plastic-sealed 4:

- Straight PCB
- 5. Power Consumption None:General-purpose (450 mW)
 - H: High-sensitivity (200 mW)
- 6. Classification
- M: General-purpose 7. Approved Standards
- US: UL, CSA certified 8. Rated Coil Voltage
 - 1.5, 3, 5, 6, 9, 12, 24 VDC



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Specifications

Coil Ratings

General-purpose Relays

Rated voltage		1.5 VDC	3 VDC	5 VDC	6 VDC	9 VDC	12 VDC	24 VDC
Rated current		300 mA	150 mA	89.3 mA	75 mA	50 mA	37.5 mA	18.8 mA
Coil resistance		5 Ω	20 Ω	56 Ω	80 Ω	180 Ω	320 Ω	1,280 Ω
Coil inductance	Armature OFF	0.005	0.017	0.044	0.067	0.137	0.229	0.94
(H) (ref. value)	Armature ON	0.009	0.034	0.091	0.136	0.297	0.496	2.1
Must operate volt	age	70% max. of rated voltage						
Must release volta	age	10% min. of rated voltage						
Max. voltage 120% of rated voltage at 23°C, 110% at °60C								
Power consumpti	consumption Approx. 450 mW							

High-sensitivity Relays

Rated voltage		1.5 VDC	3 VDC	5 VDC	6 VDC	9 VDC	12 VDC	24 VDC
Rated current		125 mA	66.7 mA	41.7 mA	33.3 mA	22.5 mA	17.1 mA	8.6 mA
Coil resistance		12 Ω	45 Ω	120 Ω	180 Ω	400 Ω	700 Ω	2,800 Ω
Coil inductance	Armature OFF	0.005	0.022	0.055	0.083	0.165	0.228	1.465
(H) (ref. value)	Armature ON	0.009	0.035	0.092	0.129	0.303	0.504	2.287
Must operate volt	age	80% max. of rated voltage						
Must release volta	age	10% min. of rated voltage						
Max. voltage 140% of rated voltage at 23°C, 130% at 65°C								
Power consumption Approx. 200 mW								

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of ±10%.

2. Operating characteristics are measured at a coil temperature of 23°C.

Contact Ratings

Item	Single crossbar	Bifurcated crossbar				
Load	Resistive load $(\cos\phi = 1)$	Resistive load $(\cos \phi = 1)$				
Rated load	0.5 A at 110 VAC; 1 A at 24 VDC	0.5 A at 110 VAC; 1 A at 24 VDC				
Contact material	AgPd (Au-clad)	AgPd (Au-clad)				
Rated carry current	2 A	2 A				
Max. switching voltage	125 VAC, 60 VDC	125 VAC, 60 VDC				
Max. switching current	1 A	1 A				
Max. switching capacity	120 VA, 30 W	120 VA, 30 W				
Min. permissible load	1 mA at 5 VDC	0.1 mA at 0.1 VDC				

Note: P level: $\lambda_{60} = 0.1 \times 10^{-6}$ /operation



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Characteristics

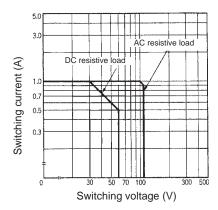
Contact resistance	50 mΩ max.			
Operate time	General-purpose type:5 ms max. (mean value: approx. 2.5 ms)High-sensitivity type:7 ms max. (mean value: approx. 3.5 ms)			
Release time	3 ms max. (mean value: approx. 0.8 ms)			
Max. operating frequency	Mechanical: 18,000 operations/hr Electrical: 1,800 operations/hr (under rated load)			
Insulation resistance	100 MΩ min. (at 500 VDC)			
Dielectric withstand voltage	500 VAC, 50/60 Hz for 1 min between coil and contacts 500 VAC, 50/60 Hz for 1 min between contacts of same polarity			
Vibration resistance	Destruction: 10 to 55 Hz, 3.3-mm double amplitude Malfunction: 10 to 55 Hz, 3.3-mm double amplitude			
Shock resistance	Destruction: 1,000 m/s ² (approx. 100G) Malfunction: 200 m/s ² (approx. 20G)			
Life expectancy	Mechanical: 10,000,000 operations min. (at 18,000 operations/hr) Electrical: DC: 500,000 operations min. (1 A at 24 VDC resistive load) AC: 200,000 operations min. (0.5 A at 110 VAC resistive load) (at 1,800 operations/hr)			
Ambient temperature	Operating: -25°C to 60°C (with no icing) (high-sensitivity type: -25°C to 65°C)			
Ambient humidity	Operating: 35% to 85%			
Weight	Approx. 3.7 g			

■ Approved Standards UL114, UL478, UL1950 (File No. E41515)/CSA C22.2 No.0, No.14 (File No. LR34815-97)

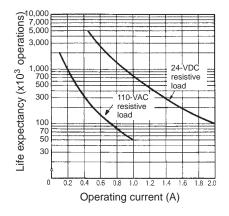
Model	Contact form	Coil ratings	Contact ratings
G2E-184P-M-US G2E-184P-H-M-US G2E-134P-M-US G2E-134P-H-M-US	SPDT	1.5 to 24 VDC	0.5 A, 125 VAC (general use) 1 A, 28 VDC (resistive)

Engineering Data

Max. Switching Capacity G2E-184P-M-US



Life Expectancy G2E-184P-M-US





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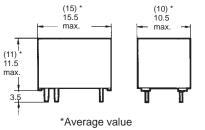
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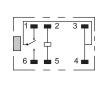
Dimensions

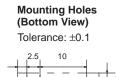
- **Note:** 1. All units are in millimeters unless otherwise indicated.
 - 2. Orientation marks are indicated as follows:

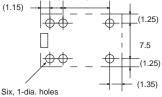




Terminal Arrangement/ Internal Connections (Bottom View)







ALL DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

Cat. No. K06-E1-9C