

General Information

Kit Part Number:	G5LE-G5V-G6-01-KIT
Description:	5 VDC Coil Relay Kit
Application:	Computer Peripherals, Security Equipment, Telecommunications
OMRON Series:	G5LE Series, G5V Series, G6B Series, G6D Series, G6E Series, G6J-Y Series, G6K Series, G6RN Series
Solution:	Relays, Single Coil Voltage Relays
Product Type:	Relays
Number of Pieces:	13
RoHS:	Yes

Specifications

Coil Power Consumption: 20mW, 100mW, 150mW, 360mW, 400mW, 500mW

Coil Voltage: 5 VDC

Contact Form: SPST-NO, DPST-NO, DPDT, SPDT

Mounting Style: Through Hole

Operating Current: 1A, 2A, 3A, 4A, 5A, 8A, 10A

Operating Voltage: 30 VDC, 125 VAC, 250 VAC

Relay Contact Form: 1 Form C, 1 Form A, 2 Form C, 2 Form A

Switching Capability (Max): 24W, 30W, 60W, 150W, 300W

Product Highlights

The G5LE relays are a cubic, single-pole 10 amp Power Relay. The G6B relays are subminiature relays that switch up to 5 amps. For Ultra-compact and Slim DPDT relays, we have the (9H x 5.7W x 10.6L)mm G6J-Y series. The G6RN relays are Heavy-duty Low profile Miniature Relays. The G6 Series of relays has a Subminiature package size of (7.87H x 9.91W x 16L)mm. The G5V Series has relays of Ultra Miniature package size of (10H x 7.5W x 12.5L)mm and High Sensitivity (150 mW nominal power consumption). It also has DPDT relays of Ultra High Sensitivity.

Features and Benefits

- High Capacity (-E) and 0.8mm Contact Gap (-G) versions
- Subminiature "sugar cube" relay with universal footprint
- Conforms to EN 61810-1. UL recognized/ CSA certified
- UL class-F coil insulation model available(UL class-B coil insulation for standard model)
- Withstands impulse of up to 4,500 V
- 400-mW and 360-mW coil power types available
- Subminiature: 20 x 10 x 10 mm (L x W x H)
- Low power consumption: 200 mW
- Unique moving loop armature reduces relay size, magnetic interference, and contact bounce time
- Fully sealed construction
- Single and Dual coil latching types also available
- High Capacity versions available
- Reduced board space ideal for high-density mounting (45% smaller than the surface area of G6B)
- Slim package: measures 6.5 W x 17.5 L x 12.5 H mm
- Switches loads up to 5 A, 250 VAC/30 VDC
- Sealed construction allows automatic soldering and cleaning
- Long service life: up to 300,000 operations with a 2 A, 250 VAC/30 VDC load
- Rated for D150 pilot duty by UL, CSA.
- Optional mounting socket simplifies relay installation and servicing of finished equipment

- Dimensions of 9H x 5.7W x 10.6L mm provide a mounting area reduction of approx. 56% when compared with the OMRON G6S
- Dielectric strength of 1,500 VAC and an impulse withstand voltage of 2,500 V for 2 x 10 μ s (conforms to Telcordia specifications (formerly Bellcore))
- Conforms to FCC Part 68 requirements (1,500 V, 10 x 160 μ s)
- Single-winding latching models to save energy
- Incorporates environmentally-friendly, cadmium-free contacts
- Variety of contact forms: SPDT or SPST-NO (continuous current rating: 8 A)
- Low profile (0.39 W x 1.12 L x 0.59 H inches)
- High dielectric strength of 4 kV with 8 mm creepage/ clearance
- Sealed plastic construction
- High Dielectric withstand voltage of 2,000 Vac, between coil and contacts, non-latching
- High sensitivity with pick-up coil power of 98 mW
- Bifurcated crossbar contact assures high reliability
- Packaged for automatic insertion
- Contact form: SPDT (1 Form C), DPDT (2 Form C)
- Operating Current: 1A, 2A and 3Amps
- Sealed and Fully sealed construction
- Relays Conform to FCC part 68 requirements for coil to contacts
- Switching Capability (max.): 24W, 30W and 60Watts
- Unique moving loop armature reduces relay size, magnetic interference, and contact bounce time
- Compact fourth generation design, offers excellent board space savings
- Terminal design based on Omron's successful G6S relay

Applications

- Telecommunications
- Security
- Computers

Bill of Materials

Part No.	Qty In Kit	Description	Datasheet	P/N Details	Search Distributors Inventory
G5LE-1-DC5	1	Power Relay Flux protection, SPDT, 5VDC, 10A, PCB	Datasheet	Details	Search
G5LE-14-DC5	1	Power Relay Fully sealed, SPDT, 5VDC, 10A, PCB	Datasheet	Details	Search
G5V-1-DC5	2	Ultra-miniature Low Signal Relay SPDT 5Vdc, 1A, Through Hole	Datasheet	Details	Search
G5V-2-DC5	1	Standard Low Signal Relay DPDT 5Vdc, 2A, Through Hole	Datasheet	Details	Search
G5V-2-H1-DC5	1	Ultra High Sensitivity Low Signal Relay, DPDT 5Vdc, 1A, Thro...	Datasheet	Details	Search
G6B-1114P-US-DC5	1	Power Relay, SPST-NO, 5VDC, 5A	Datasheet	Details	Search
G6B-2214P-US-DC5	1	Power Relay, DPST-NO, 5VDC, 5A, PCB	Datasheet	Details	Search
G6D-1A-ASI-DC5	1	Power Relay, SPST-NO, 5VDC, 5A, PCB	Datasheet	Details	Search
G6E-134P-ST-US-DC5	1	Low Signal Relay SPDT 5VDC, 3A, Through Hole	Datasheet	Details	Search
G6J-2P-Y-DC5	1	Signal Relay DPDT 5VDC, 1A, Through Hole	Datasheet	Details	Search
G6K-2P-DC5	1	Compact Low Signal Relay DPDT 5Vdc, 1A, Through Hole	Datasheet	Details	Search
G6RN-1-DC5	1	Power Relay, SPDT, 5VDC, 8A, PCB	Datasheet	Details	Search

Recommended Tool

Part No.	Included in Kit
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