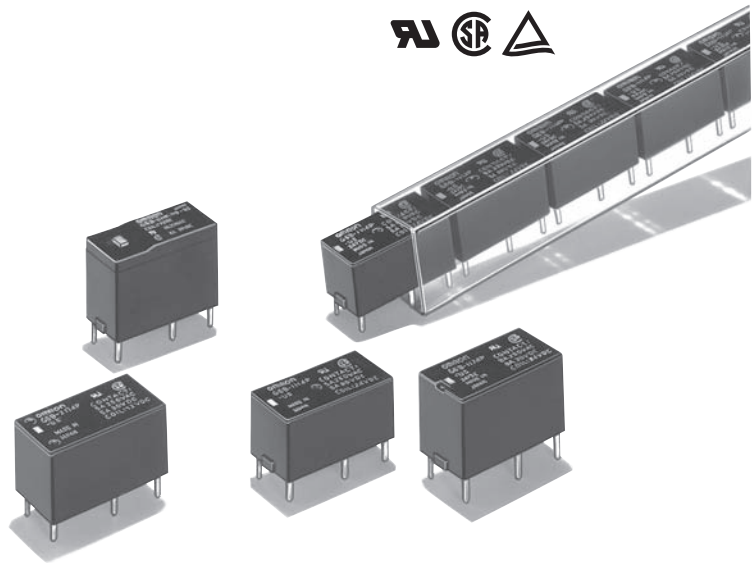


# G6B

PCB Power Relay

## High Capacity and High Dielectric Strength Miniature Relay with Fully Sealed Construction in 5 A (8 A) SPST-NO(1a), SPST-NO+SPST-NC(1a1b), DPST-NO(2a), DPST-NC(2b) Types



- P6B model for connecting sockets are available.
- High insulation with dielectric strength of 3,000VAC between coil and contacts (impulse withstand voltage of 6 kV).
- Standard model conforms to UL/CSA standards.
- AgSnIn contacts suitable for loads that generate surge voltage (inductive load, capacity load, etc.) are available. (-FD type)
- Ultrasonic cleanable models are available. (-U type)
- Operation indicator & built-in surge absorption diode models are available. (-ND type)
- 2-Pole type available.
- High-reliability models are available.

G6B-1184P-US model (The relay used in Terminal Relay G6B-48BND)

RoHS Compliant

### Application Examples

- Ideal for output applications of control equipments

### Model Number Legend

G6B□-□□□□□□-□-□-□-□-□-□

1    2    3 4 5    6    7    8    9    10 11

#### 1. Relay Function

- None: Single-side stable
- U : Single-winding latching  
(G6B□-1114 models only)
- K : Double-winding latching  
(G6B□-1114 models only)

#### 2. Contact Form

- 21: SPST-NO + SPST-NC
- 22: DPST-NO
- 20: DPST-NC
- 11: SPST-NO

#### 3. Classification

- 1: Standard
- 7: High-capacity
- 8: Single crossbar

#### 4. Enclosure rating

- 4: Fully sealed
- 7: Flux protection

#### 5. Terminal Shape

- P: Straight PCB terminals  
Socket mounting terminals
- C: Self-clinching PCB

#### 6. Contact material

- None: Standard (Ag-alloy (Cd free))
- FD : AgSnIn contact  
(Suitable for DC inductive load with high inrush current)

#### 7. Coil Polarity

- None: 5, 6 Terminal (+), 1, 2 Terminal (-)
- 1 : 5, 6 Terminal (-), 1, 2 Terminal (+)

#### 8. Operation Indicator Diode Availability

- None: Standard
- ND : Operation indicator & coil surge absorption diode  
(for -1177 type only)

#### 9. Approved Standards

- US: UL/CSA

#### 10. Washability

- None: Standard
- U : For ultrasonically cleanable

#### 11. Mounting

- None: Mounted directly to PCB
- P6B : Mounted to Socket

## Ordering Information

### Standard Models (UL, CSA certified)

Number of poles	Relay Function	Contact form	Contact material Terminals	Standard (Ag-alloy (Cd free))		AgSnIn contact		Minimum packing unit
				Model	Rated coil voltage	Model	Rated coil voltage	
1-pole	Single-side stable	SPST-NO (1a) (Standard)	Straight PCB	<b>G6B-1114P-US</b>	5, 6, 12, 24 VDC	<b>G6B-1114P-FD-US</b>	5, 6, 12, 24 VDC	100 pcs/tray
			Self-clinching PCB	<b>G6B-1114C-US</b>	5, 6, 12, 24 VDC	<b>G6B-1114C-FD-US</b>	12, 24 VDC	
		SPST-NO (1a) (High-capacity)	Straight PCB	<b>G6B-1174P-US</b>	5, 6, 12, 24 VDC	<b>G6B-1174P-FD-US</b>	5, 6, 12, 24 VDC	20 pcs/tube
			Self-clinching PCB	<b>G6B-1174C-US</b>	5, 12, 24 VDC	<b>G6B-1174C-FD-US</b>	5, 12, 24 VDC	
		SPST-NO (1a) (High-reliability)	Straight PCB	<b>G6B-1184P-US</b>	5, 12, 24 VDC	---	---	100 pcs/tray
			Self-clinching PCB	---	---	---	---	
	Single-winding latching	SPST-NO (1a) (Standard)	Straight PCB	<b>G6BU-1114P-US</b>	5, 6, 12, 24 VDC	<b>G6BU-1114P-FD-US</b>	5, 12, 24 VDC	100 pcs/tray
			Self-clinching PCB	<b>G6BU-1114C-US</b>	12 VDC	---	---	
	Double-winding latching	SPST-NO (1a) (Standard)	Straight PCB	<b>G6BK-1114P-US</b>	5, 6, 12, 24 VDC	<b>G6BK-1114P-FD-US</b>	5, 6, 12, 24 VDC	100 pcs/tray
			Self-clinching PCB	<b>G6BK-1114C-US</b>	5, 6, 12, 24 VDC	<b>G6BK-1114C-FD-US</b>	24 VDC	
	Single-side stable	SPST-NO (1a) (Built-in high-capacity operation indicator & diode)	Straight PCB	<b>G6B-1177P-ND-US</b>	5, 12, 24 VDC	<b>G6B-1177P-FD-ND-US</b>	5, 12, 24 VDC	100 pcs/tray
			Self-clinching PCB	<b>G6B-1177C-ND-US</b>	5, 12, 24 VDC	<b>G6B-1177C-FD-ND-US</b>	12, 24 VDC	
2-pole	Single-side stable	SPST-NO (1a)+ SPST-NC (1b) (Standard)	Straight PCB	<b>G6B-2114P-US</b>	5, 6, 12, 24 VDC	<b>G6B-2114P-FD-US</b>	5, 6, 12, 24 VDC	100 pcs/tray
			Self-clinching PCB	<b>G6B-2114C-US</b>	5, 12, 24 VDC	<b>G6B-2114C-FD-US</b>	5, 12 VDC	
		DPST-NO (2a) (Standard)	Straight PCB	<b>G6B-2214P-US</b>	5, 6, 12, 24 VDC	<b>G6B-2214P-FD-US</b>	5, 6, 12, 24 VDC	
			Self-clinching PCB	<b>G6B-2214C-US</b>	5, 12, 24 VDC	<b>G6B-2214C-FD-US</b>	5, 12, 24 VDC	
		DPST-NC (2b) (Standard)	Straight PCB	<b>G6B-2014P-US</b>	5, 6, 12, 24 VDC	<b>G6B-2014P-FD-US</b>	5, 6, 12, 24 VDC	
			Self-clinching PCB	<b>G6B-2014C-US</b>	5, 6, 12, 24 VDC	<b>G6B-2014C-FD-US</b>	12, 24 VDC	

Note: AgSnIn contact models are highly welding-resistant, and roughening of contacts due to inrush current and inductive load is lessened.

### Models for Reverse Coil Polarity

Number of poles	Relay Function	Contact form	Contact material Terminals	Standard (Ag-alloy (Cd free))		AgSnIn contact		Minimum packing unit
				Model	Rated coil voltage	Model	Rated coil voltage	
1-pole	Single-side stable	SPST-NO (1a) (Standard)	Straight PCB	<b>G6B-1114P-1-US</b>	5, 6, 12, 24 VDC	<b>G6B-1114P-FD-1-US</b>	24 VDC	100 pcs/tray
			Self-clinching PCB	---	---	---	---	
		SPST-NO (1a) (High-capacity)	Straight PCB	<b>G6B-1174P-1-US</b>	5, 12, 24 VDC	---	---	20 pcs/tube
			Self-clinching PCB	---	---	---	---	
	Single-winding latching	SPST-NO (1a) (Standard)	Straight PCB	<b>G6BU-1114P-1-US</b>	5, 12 VDC	---	---	100 pcs/tray
			Self-clinching PCB	---	---	---	---	
	Double-winding latching	SPST-NO (1a) (Standard)	Straight PCB	<b>G6BK-1114P-1-US</b>	5, 6, 12, 24 VDC	---	---	100 pcs/tray
			Self-clinching PCB	---	---	---	---	
2-pole	Single-side stable	SPST-NO (1a)+ SPST-NC (1b) (Standard)	Straight PCB	<b>G6B-2114P-1-US</b>	5, 6, 12, 24 VDC	<b>G6B-2114P-FD-1-US</b>	12, 24 VDC	100 pcs/tray
			Self-clinching PCB	---	---	---	---	
		DPST-NO (2a) (Standard)	Straight PCB	<b>G6B-2214P-1-US</b>	5, 12, 24 VDC	---	---	
			Self-clinching PCB	---	---	---	---	

Note: AgSnIn contact models are highly welding-resistant, and roughening of contacts due to inrush current and inductive load is lessened.