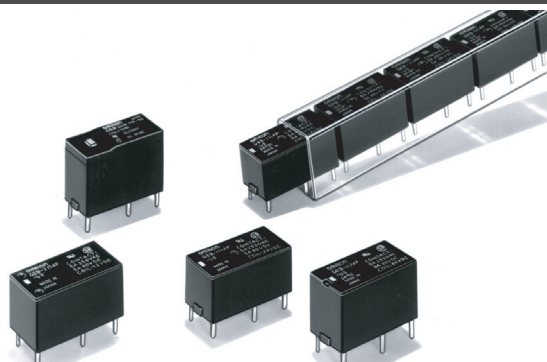


Power PCB Relay G6B

Subminiature Relay that Switches up to 5 A

- 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
- RoHS Compliant



Ordering Information

Classification	Contact form	Straight Through-hole PCB	Self-clinching Through-hole PCB
Non-latching	SPST-NO	G6B-1114P-US	G6B-1114C-US
	SPST-NO+SPST-NC	G6B-2114P-US	G6B-2114C-US
	DPST-NO	G6B-2214P-US	G6B-2214C-US
	DPST-NC	G6B-2014P-US	G6B-2014C-US
Single coil latching	SPST-NO	G6BU-1114P-US	G6BU-1114C-US
Dual coil latching	SPST-NO	G6BK-1114P-US	G6BK-1114C-US
High-capacity, Non-latching	SPST-NO	G6B-1174P-US	G6B-1174C-US

Note: When ordering, add the rated coil voltage to the model number.

Example: G6B-1114P-US DC12

Rated coil voltage

Model Number Legend

G6B - - - DC

1 2 3 4 5 6 7 8

1. Relay Function

- None: Non-latching
- U: Single coil latching
- K: Dual coil latching

2. Contact Form

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

3. Contact Type

- 1: Standard
- 7: High-capacity

4. Enclosure Ratings

- 4: Fully sealed

5. Terminals

- P: Straight Through-hole PCB
- C: Self-clinching Through-hole PCB

6. Approved Standards

- US: UL/CSA certified

7. Mounting Method

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

8. Rated Coil Voltage

- 5, 6, 12, or 24 VDC

■ Accessories (Order Separately)

Back Connecting Sockets

Applicable Relay	Back Connecting Socket (See note 1.)
G6B(U)-1114P-US-P6B	P6B-04P
G6BK-1114P-US-P6B	P6B-06P
G6B-2□□4P-US-P6B	P6B-26P
G6B-1174P-US-P6B	P6B-04P

- Note:** 1. Not applicable to the self-clinching type.
 2. Use the G6B-□□□□P-US-**P6B** if mounting relays in a P6B Socket.

Removal Tool	P6B-Y1
Hold-down Clips	P6B-C2

Specifications

■ Contact Ratings

Item	SPST-NO		SPST-NO + SPST-NC, DPST-NO, DPST-NC	
	Resistive load ($\cos\phi = 1$)	Inductive load ($\cos\phi = 0.4$; L/R = 7 ms)	Resistive load ($\cos\phi = 1$)	Inductive load ($\cos\phi = 0.4$; L/R = 7 ms)
Rated load	5 A at 250 VAC; 5A at 30 VDC	2 A at 250 VAC; 2 A at 30 VDC	5 A at 250 VAC; 5A at 30 VDC	1.5 A at 250 VAC; 1.5 A at 30 VDC
Contact material	Ag Alloy (Cd free)			
Rated carry current	5 A			
Max. switching voltage	380 VAC, 125 VDC			
Max. switching current	5 A			
Max. switching capacity	1,250 VA, 150 W	500 VA, 60 W	1,250 VA, 150 W	375 VA, 80 W
Min. permissible load (reference value - see note)	10 mA at 5 VDC			

Item	SPST-NO (High-capacity)	
Load	Resistive load ($\cos\phi = 1$)	Inductive load ($\cos\phi = 0.4$; L/R = 7 ms)
Rated load	8 A at 250 VAC; 8 A at 30 VDC	2 A at 250 VAC; 2 A at 30 VDC
Contact material	Ag Alloy (Cd free)	
Rated carry current	8 A	
Max. switching voltage	380 VAC, 125 VDC	
Max. switching current	8 A	
Max. switching capacity	2,000 VA, 150 W	
Min. permissible load (reference value - see note)	10 mA at 5 VDC	

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

■ Coil Ratings

Non-latching, Single Pole

Rated voltage (VDC)	Rated current (mA)	Coil resistance (Ω)	Coil inductance (ref. value)(H)		Pick-up voltage	Dropout voltage	Max. voltage	Power consumption (mW)
			Armature OFF	Armature ON				
5	40	125	0.28	0.26	70% max.	10% min.	160% max. @ 23°C	Approx. 200
6	33.30	180	0.31	0.28				
12	16.70	720	1.2	1.1				
24	8.30	2,880	4.9	4.1				

- Note:** 1. The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of $\pm 10\%$.
 2. Operating characteristics are measured at a coil temperature of 23°C.