



OMRON PC BOARD-USE RELAY

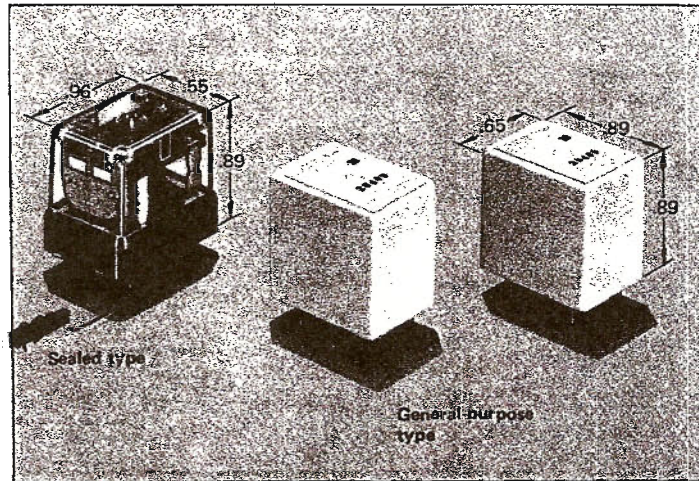
Cat. No. K12-E3-3

Model **G2U**

Sugar Cube-Sized PCB Relay Capable of Switching 5A Loads

FEATURES

- Ideal for application in household electrical appliances
- Construction resistant to flux wicking. Dip soldering is possible.
- Sealed type is also available.



AVAILABLE TYPES

Contact form	Type	General purpose	Sealed
	SPDT		G2U-112P-US
SPST-NO		G2U-112P-100-US	G2U-114P-100-US

When placing your order, add the desired coil voltage rating listed in "SPECIFICATIONS" to the part number as shown below.

G2U-112P-US-**DC6** — Coil rating

OMRON

SPECIFICATIONS

COIL RATINGS

Rated voltage	Item	Rated current (mA)	Coil resistance (Ω)	Coil inductance (ref. value) (H)		Must operate voltage	Must dropout voltage	Maximum voltage	Power consumption (mW)
				Armature OFF	Armature ON				
6 VDC		60	100	0.34	0.51	75 max.	10 min.	130 max.	Approx. 360
12 VDC		30	400	1.2	2.3				
24 VDC		15	1,600	4.8	8.0				

NOTE: The rated current and coil resistance are measured at a coil temperature of 68°F with tolerances of ±10%.

CHARACTERISTICS

Contact resistance	100mΩ max.
Operate time	15msec max.
Release time	5msec max.
Operating frequency	Mechanically: 18,000 operations/hour Electrically: 1,800 operations/hour (under rated load)
Insulation resistance	100MΩ min. (at 500 VDC)
Dielectric strength	1,500 VAC, 50/60Hz for 1 minute (750 VAC between non-continuous contacts)
Vibration	Mechanical durability: 10 to 55Hz; .06" double amplitude Malfunction durability: 10 to 55Hz; .06" double amplitude
Shock	Mechanical durability: Approx. 100G's, Malfunction durability: Approx. 10G's
Ambient temperature	Operating: -4 to +140°F
Humidity	45 to 85% RH
Service life	Mechanically: 10,000,000 operations min. (at operating frequency of 18,000 operations/hour) Electrically: See "CHARACTERISTIC DATA."
Weight	Approx. 46oz.

NOTE: The data shown are of initial value.

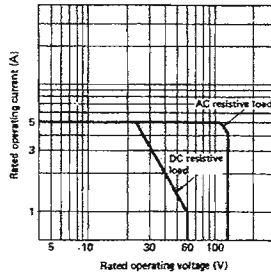
● CONTACT RATINGS

(Value in parentheses applies to sealed type.)

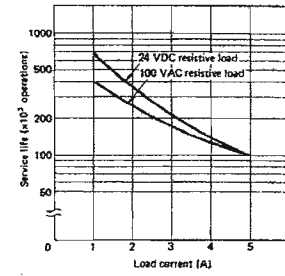
Item	Load	Resistive load (p.f.=1)	Inductive load (p.f.=0.4; L/R=7msec)
Rated load		110 VAC/24 VDC 5A (3A)	110 VAC/24 VDC 2.5A (1.5A)
Carry current		5A (3A)	
Max. operating voltage		125 VAC, 60 VDC	
Max. operating current		5A (3A)	3A (1.5A)
Max. switching capacity		600VA/150W (350VA/90W)	300VA/70W (180VA/40W)
Min. permissible load (reference value)		5 VDC 100mA	

● CHARACTERISTIC DATA

Max. switching capacity



Electrical service life



Approved by Standards
UL recognized type (File No. E41515)

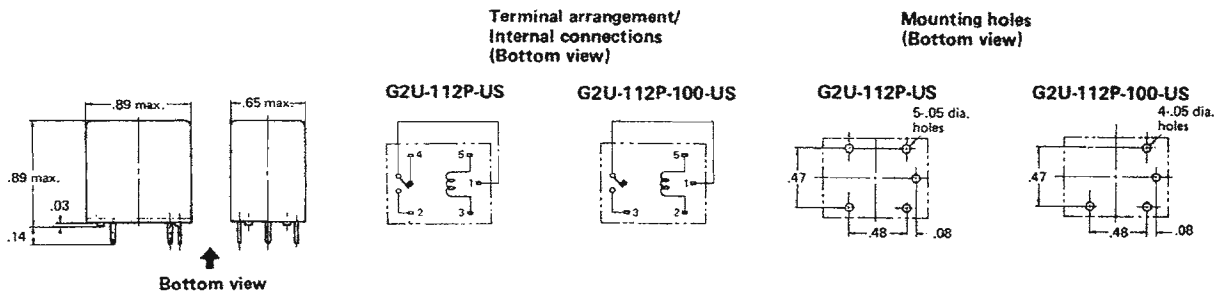
Type		Contact form	Coil ratings	Contact ratings
General purpose	G2U-112P-US	SPDT	5 to 24 VDC	5A 120 VAC or 5A 28 VDC (resistive load) 3A 120 VAC (inductive load)
	G2U-114P-US			
	G2U-112P-100-US	SPST-NO		
	G2U-114P-100-US			

CSA certified type (File No. LR34815)

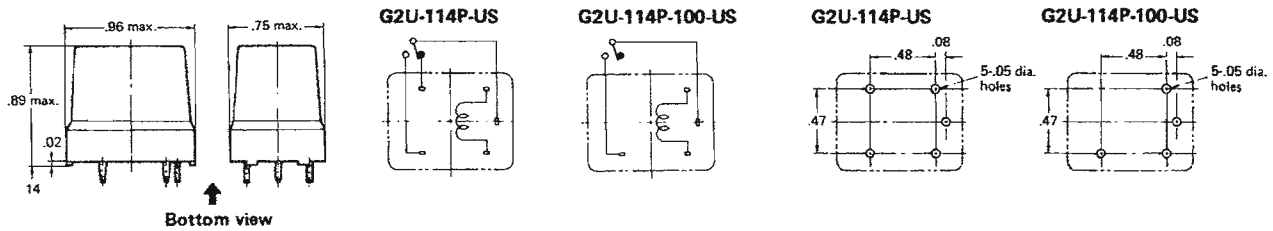
Type		Contact form	Coil ratings	Contact ratings
General purpose	G2U-112P-US	SPDT	5 to 24 VDC	3A 120 VAC (resistive load) 3A 28 VDC (resistive load) 1.5A 120 VAC (inductive load)
	G2U-114P-US			
	G2U-112P-100-US	SPST-NO		
	G2U-114P-100-US			

■ DIMENSIONS (Unit: inch)

● G2U-112P-US, G2U-112P-100-US



● G2U-114P-US, G2U-114P-100-US



NOTE: ALL DIMENSIONS SHOWN IN THIS CATALOG ARE IN UNITS OF INCHES.
To convert inches into millimeters multiply by 25.4. To convert ounces into grams multiply by 28.353.

NOTE: Specifications subject to change without notice.