

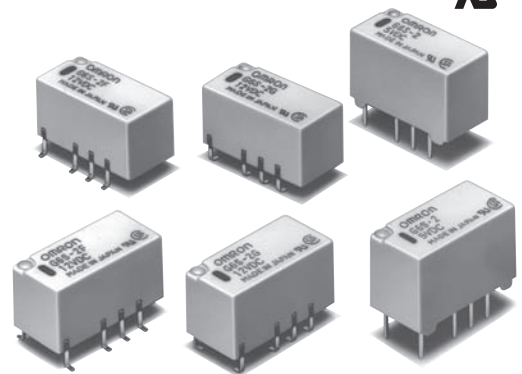
# G6S

Surface-mounting Relay

## Compact, Industry-Standard 2-pole relay, designed to switch 2A Signal Loads.



- Long terminals for ideal for soldering and mounting reliability. (Surface mounting terminal models)
- Space-saving inside-L terminal. (Surface mounting terminal models)
- Unique terminal structure, designed to withstand IRS soldering processes. (Surface mounting terminal models)
- High dielectric strength (2,000 VAC) and impulse withstand voltage between coil and contacts (2,500 V, 2 × 10 μs: Telcordia requirements).
- Ultra-miniature at 9.4 mm (H) × 7.5 mm (W) × 15 mm (L).
- Models available with BSI (EN62368-1) supplementary insulation certification. (-Y type)



**RoHS Compliant**

### Model Number Legend

G6S  $\square$ - $\square$  $\square$ - $\square$   
 1 2 3 4

#### 1. Relay Function

- None : Single-side stable
- U : Single-winding latching
- K : Double-winding latching

#### 2. Number of poles/ Contact form

2: 2-pole/DPDT (2c)

#### 3. Terminal Shape

- None : PCB terminals
- F : Outside-L surface mounting terminals
- G : Inside-L surface mounting terminals

#### 4. Approved Standards

- None : UL, CSA
- Y : UL, CSA, BSI (EN62368-1)

### Application Examples

- Telecommunication equipment
- Measurement devices
- Office automation machines
- Audio-visual products.
- Security equipment
- Building automation equipment
- Industrial equipment
- Amusement equipment
- Home appliances

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### Ordering Information

#### Surface mounting terminal standard models

Packing			Tube Packing			Tape Packing				
Enclosure rating	Relay Function	Contact form	Model	Rated coil voltage	Minimum packing unit	Model	Rated coil voltage	Minimum packing unit	Minimum ordering unit (tape packing)	
Fully sealed	Single-side stable	DPDT (2c)	G6S-2F G6S-2G	3 VDC	50 pcs/tube	G6S-2F-TR G6S-2G-TR	3 VDC	400 pcs/reel	800 pcs/2 reels	
				4.5 VDC			4.5 VDC			
				5 VDC			5 VDC			
				12 VDC			12 VDC			
			24 VDC	24 VDC						
			Single-winding latching	G6S-2F-Y G6S-2G-Y		5 VDC	G6S-2F-Y-TR G6S-2G-Y-TR			5 VDC
						12 VDC				12 VDC
						24 VDC				24 VDC
	5 VDC					5 VDC				
	G6SU-2F G6SU-2G			4.5 VDC		G6SU-2F-TR G6SU-2G-TR	4.5 VDC			
				5 VDC			5 VDC			
				12 VDC			12 VDC			
				24 VDC			24 VDC			
	Double-winding latching		G6SU-2F-Y G6SU-2G-Y	5 VDC		G6SU-2F-Y-TR G6SU-2G-Y-TR	5 VDC			
				12 VDC			12 VDC			
				24 VDC			24 VDC			
				3 VDC			3 VDC			
			G6SK-2F G6SK-2G	4.5 VDC		G6SK-2F-TR G6SK-2G-TR	4.5 VDC			
				5 VDC			5 VDC			
				12 VDC			12 VDC			
				24 VDC			24 VDC			

Note 1. When ordering, add the rated coil voltage to the model number.

Example: G6S-2F DC3

Rated coil voltage

However, the notation of the coil voltage on the product case as well as on the packing will be marked as  $\square$  VDC.

Note 2. When ordering tape packing, add "-TR" to the model number.

Be sure since "-TR" is not part of the relay model number, it is not marked on the relay case.

Note 3. When ordering tape packing, minimum order unit is 2 reels (400 pcs × 2 = 800 pcs).

Note 4. Surface mounting terminal (SMT) standard models are shipped in moisture-proof package.

## ●PCB Terminal Standard Models

Enclosure rating	Relay Function	Single-side stable		Single-winding latching		Double-winding latching		Minimum packing unit
	Contact form	Model	Rated coil voltage	Model	Rated coil voltage	Model	Rated coil voltage	
Fully sealed	DPDT (2c)	G6S-2	3 VDC	G6SU-2	3 VDC	G6SK-2	3 VDC	50 pcs/tube
			4.5 VDC		4.5 VDC		4.5 VDC	
			5 VDC		5 VDC		5 VDC	
			12 VDC		12 VDC		12 VDC	
			24 VDC		24 VDC		24 VDC	
			G6S-2-Y		5 VDC		G6SU-2-Y	
		12 VDC		12 VDC				
		24 VDC		24 VDC				

Note 1. When ordering, add the rated coil voltage to the model number.

Example: G6S-2 DC3

Rated coil voltage

However, the notation of the coil voltage on the product case as well as on the packing will be marked as □□ VDC.

Note 2. PCB terminal standard types do not require moisture proof packaging and therefore shipped in non-moisture-proof package.

## ■Ratings

### ●Single-side Stable Model

Model	Item Rated voltage	Rated current (mA)	Coil resistance (Ω)	Must operate voltage (V)	Must release voltage (V)	Max. voltage (V)	Power consumption (mW)
G6S-2 G6S-2F G6S-2G	DC	3	46.7	64.3	75% max.	10% min.	200% (at 23°C) Approx. 140
		4.5	31	145			
		5	28.1	178			
		12	11.7	1,028			
		24	8.3	2,880			
G6S-2-Y G6S-2F-Y G6S-2G-Y	DC	5	40	125	75% max.	10% min.	170% (at 23°C) Approx. 200
		12	16.7	720			
		24	9.6	2,504			

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.

3. The maximum voltage is the highest voltage that can be imposed on the relay coil.

### ●Contacts

Item	Load	Resistive load
Contact type		Bifurcated crossbar
Contact material		Ag (Au-Alloy)
Rated load		0.5 A at 125 VAC; 2 A at 30 VDC
Rated carry current		2 A
Max. switching voltage		250 VAC, 220 VDC
Max. switching current		2 A

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### ●Single-winding Latching Model

Model	Item Rated voltage	Rated current (mA)	Coil resistance (Ω)	Must operate voltage (V)	Must release voltage (V)	Max. voltage (V)	Power consumption (mW)
G6SU-2 G6SU-2F G6SU-2G	DC	3	33.3	90	75% max.	75% max.	180% (at 23°C) Approx. 100
		4.5	22.2	203			
		5	20	250			
		12	8.3	1,440			
		24	6.3	3,840			
G6SU-2-Y G6SU-2F-Y G6SU-2G-Y	DC	5	28.1	178	75% max.	75% max.	200% (at 23°C) Approx. 140
		12	11.7	1,028			
		24	5.8	4,114			

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.

3. The maximum voltage is the highest voltage that can be imposed on the relay coil.

### ●Double-winding Latching Model

Model	Item Rated voltage	Rated current (mA)	Coil resistance (Ω)	Must operate voltage (V)	Must release voltage (V)	Max. voltage (V)	Power consumption (mW)
G6SK-2 G6SK-2F G6SK-2G	DC	3	66.6	45	75% max.	75% max.	170% (at 23°C) Approx. 200
		4.5	44.4	101			
		5	40	125			
		12	16.7	720			
		24	12.5	1,920			
						140% (at 23°C) Approx. 300	

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.

3. The maximum voltage is the highest voltage that can be imposed on the relay coil.

## Characteristics

Item	Relay Function	Single-side Stable G6S-2, G6S-2F, G6S-2G	Single-winding Latching G6SU-2, G6SU-2F, G6SU-2G	Double-winding Latching G6SK-2, G6SK-2F, G6SK-2G	Single-side Stable G6S-2F-Y, G6S-2G-Y, G6S-2-Y	Single-winding Latching G6SU-2-Y, G6SU-2F-Y, G6SU-2G-Y
Contact resistance *1		75 mΩ max.				
Operate (set) time		4 ms max.				
Release (reset) time		4 ms max.				
Min. set/reset pulse width		10 ms			10 ms	
Insulation resistance *2		1,000 MΩ min. (at 500 VDC)				
Dielectric strength	Between coil and contacts	2,000 VAC, 50/60 Hz for 1 min		1,000 VAC, 50/60 Hz for 1 min	2,000 VAC, 50/60 Hz for 1 min	
	Between contacts of different polarity	1,500 VAC, 50/60 Hz for 1 min				
	Between contacts of the same polarity	1,000 VAC, 50/60 Hz for 1 min				
	Between set and reset coil	-		500 VAC, 50/60 Hz for 1 min	-	
Insulation distance	Between coil and contacts	Clearance: 1 mm, Creepage: 1.5 mm			Clearance: 2 mm, Creepage: 2 mm	
	Between coil and contacts	2,500 V (2 × 10 μs); 1,500 V (10 × 160 μs)		1,500 V (10 × 160 μs)	2,500 V (2 × 10 μs); 1,500 V (10 × 160 μs)	
Impulse withstand voltage	Between contacts of different polarity	2,500 V (2 × 10 μs); 1,500 V (10 × 160 μs)				
	Between contacts of the same polarity	1,500 V (10 × 160 μs)				
Vibration resistance	Destruction	10 to 55 to 10 Hz, 2.5 mm single amplitude (5 mm double amplitude)				
	Malfunction	10 to 55 to 10 Hz, 1.65 mm single amplitude (3.3 mm double amplitude)				
Shock resistance	Destruction	1,000 m/s <sup>2</sup>				
	Malfunction	750 m/s <sup>2</sup>				
Durability	Mechanical	100,000,000 operations min. (at 36,000 operations/hr)				
	Electrical	100,000 operations min. for AC (at 1,800 operations/h with rated load) 100,000 operations min. for DC (at 1,200 operations/h with rated load)				
Failure rate (P level) (reference value) *3		10 μA at 10 m VDC				
Ambient operating temperature		-40°C to 85°C (with no icing or condensation), and -40°C to 70°C (with no icing or condensation) only for double-winding latching 24 VDC and -Y type 24 VDC				
Ambient operating humidity		5% to 85%				
Weight		Approx. 2 g				

Note: The above values are initial values.

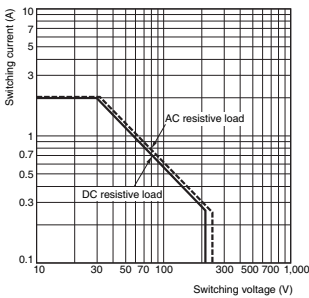
\*1. The contact resistance was measured with 10 mA at 1 VDC with a voltage drop method.

\*2. The insulation resistance was measured with a 500 VDC megohmmeter applied to the same parts as those used for checking the dielectric strength (except between the set and reset coil).

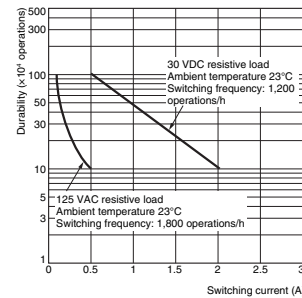
\*3. This value was measured at a switching frequency of 120 operations/min and the criterion of contact resistance is 50 Ω. This value may vary, depending on switching frequency, operating conditions, expected reliability level of the relay, etc. It is always recommended to double-check relay suitability under actual load conditions.

## Engineering Data

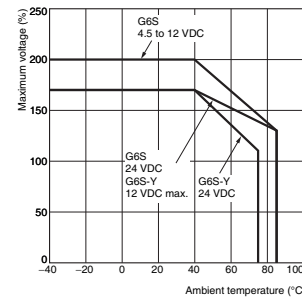
### Maximum Switching Capacity



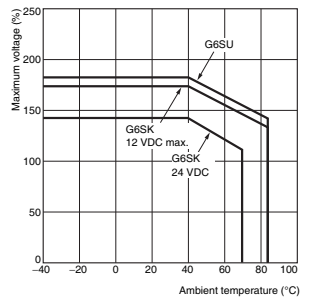
### Durability G6S-2F(G)



### Ambient Temperature vs. Maximum Voltage (Single-side Stable)

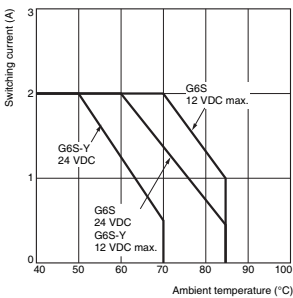


### Ambient Temperature vs. Maximum Voltage (Latching)

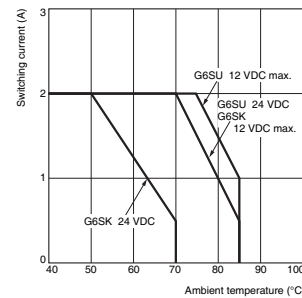


Note: "Maximum voltage" is the maximum voltage that can be applied to the Relay coil.

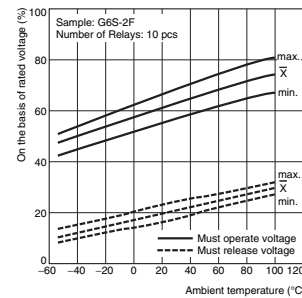
### Ambient Temperature vs. Switching Current (Single-side Stable)



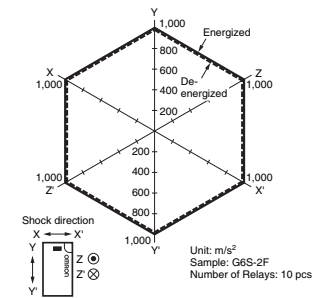
### Ambient Temperature vs. Switching Current (Latching)



### Ambient Temperature vs. Must Operate or Must Release Voltage G6S-2F(G)

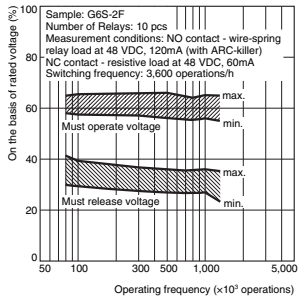


### Shock Malfunction G6S-2F(G)

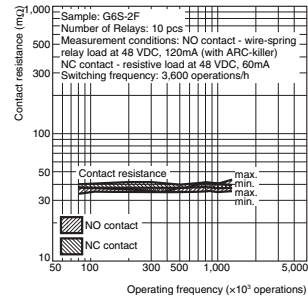


Conditions: Shock is applied in ±X, ±Y, and ±Z directions three times each with and without energizing the Relays to check the number of contact malfunctions.

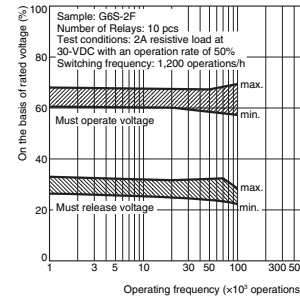
## ●Electrical Endurance (with Must Operate and Must Release Voltage) \*1 G6S-2F(G)



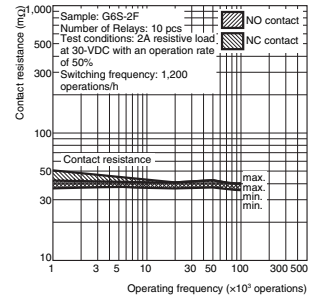
## ●Electrical Endurance (Contact Resistance) \*1 G6S-2F(G)



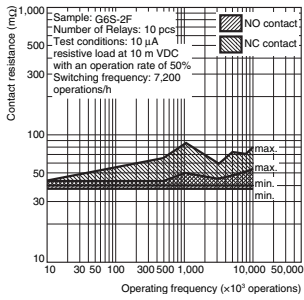
## ●Electrical Endurance (with Must Operate and Must Release Voltage) \*1 G6S-2F(G)



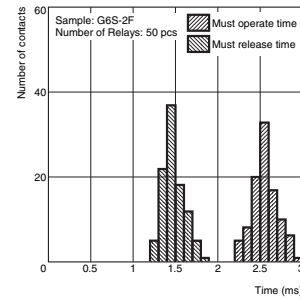
## ●Electrical Endurance (Contact Resistance) \*1 G6S-2F(G)



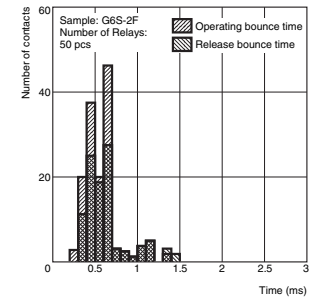
## ●Contact Reliability Test (Contact Resistance) \*1, \*2 G6S-2F(G)



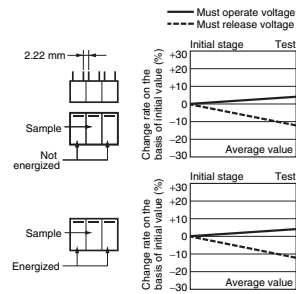
## ●Must Operate and Must Release Time Distribution \*1 G6S-2F(G)



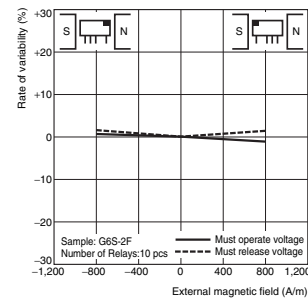
## ●Distribution of Bounce Time \*1 G6S-2F(G)



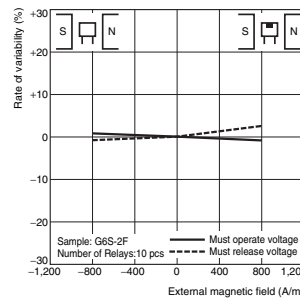
## ●Mutual Magnetic Interference G6S-2F(G)



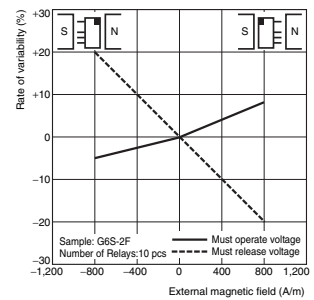
## ●External Magnetic Interference G6S-2F(G) (Average value)



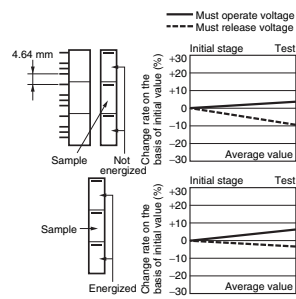
## ●External Magnetic Interference G6S-2F(G) (Average value)



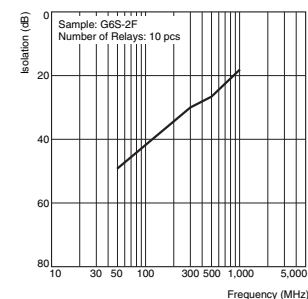
## ●External Magnetic Interference G6S-2F(G) (Average value)



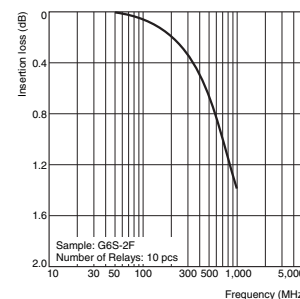
## ●Mutual Magnetic Interference G6S-2F(G)



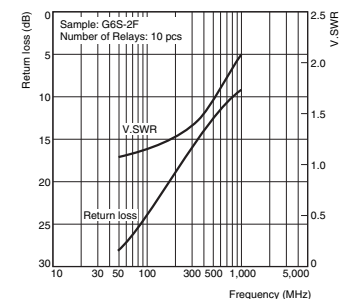
## ●High-frequency Characteristics (Isolation) \*1, \*2 G6S-2F(G) (Average value (initial))



## ●High-frequency Characteristics (Insertion Loss) \*1, \*3 G6S-2F(G) (Average value (initial))



## ●High-frequency Characteristics (Return Loss, V.SWR) \*1, \*3 G6S-2F(G) (Average value (initial))

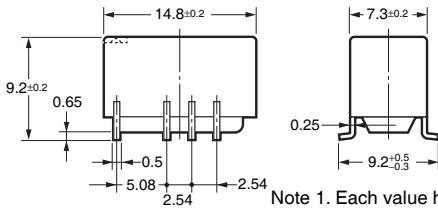
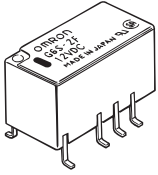


\*1. The tests were conducted at an ambient temperature of 23°C.  
\*2. The contact resistance data are periodically measured reference values and are not values from each monitoring operation. Contact resistance values will vary according to the switching frequency and operating environment, so be sure to check operation under the actual operating conditions before use.  
\*3. High-frequency characteristics depend on the PCB to which the Relay is mounted. Always check these characteristics, including durability, in the actual machine before use.

## ■Dimensions

### Single-side Stable

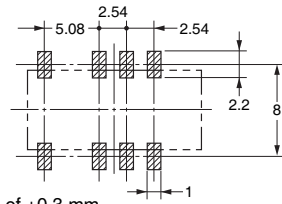
G6S-2F  
G6S-2F-Y



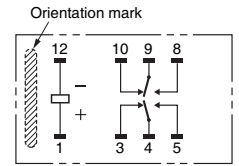
Note 1. Each value has a tolerance of  $\pm 0.3$  mm.  
Note 2. The coplanarity of the terminals is 0.1 mm max.

### Mounting Dimensions (Top View)

Tolerance:  $\pm 0.1$  mm

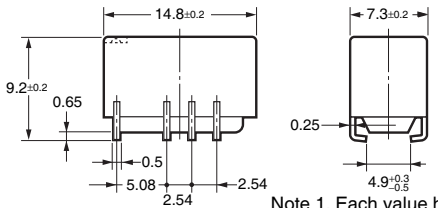
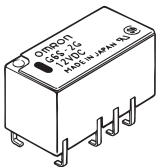


### Terminal Arrangement/ Internal Connections (Top View)



Note: Check carefully the coil polarity of the Relay.

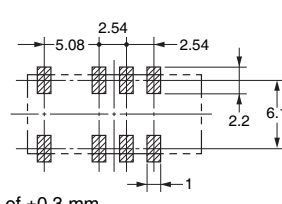
G6S-2G  
G6S-2G-Y



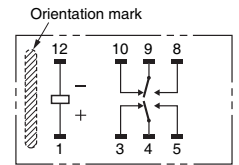
Note 1. Each value has a tolerance of  $\pm 0.3$  mm.  
Note 2. The coplanarity of the terminals is 0.1 mm max.

### Mounting Dimensions (Top View)

Tolerance:  $\pm 0.1$  mm

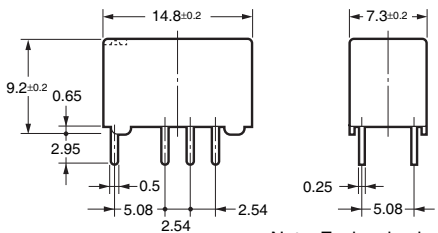
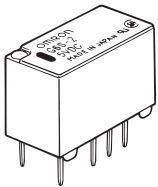


### Terminal Arrangement/ Internal Connections (Top View)



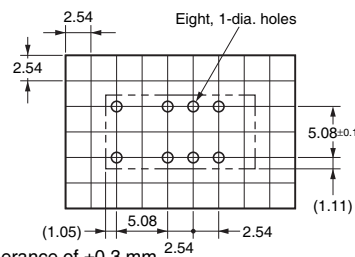
Note: Check carefully the coil polarity of the Relay.

G6S-2  
G6S-2-Y

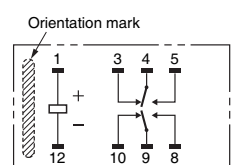


Note: Each value has a tolerance of  $\pm 0.3$  mm.

### PCB Mounting Holes (Bottom View)



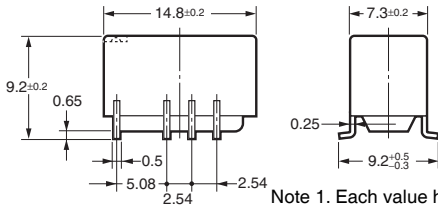
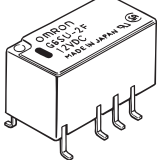
### Terminal Arrangement/ Internal Connections (Bottom View)



Note: Check carefully the coil polarity of the Relay.

### Single-winding Latching

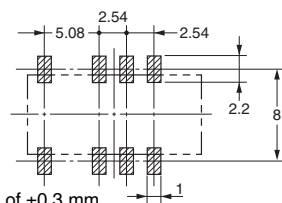
G6SU-2F  
G6SU-2F-Y



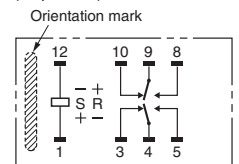
Note 1. Each value has a tolerance of  $\pm 0.3$  mm.  
Note 2. The coplanarity of the terminals is 0.1 mm max.

### Mounting Dimensions (Top View)

Tolerance:  $\pm 0.1$  mm

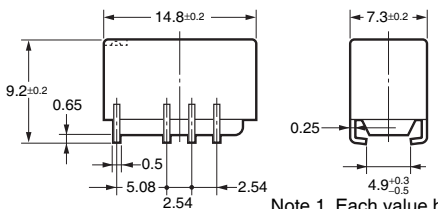
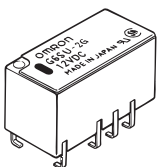


### Terminal Arrangement/ Internal Connections (Top View)



Note: Check carefully the coil polarity of the Relay.

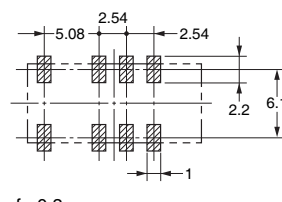
G6SU-2G  
G6SU-2G-Y



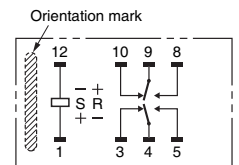
Note 1. Each value has a tolerance of  $\pm 0.3$  mm.  
Note 2. The coplanarity of the terminals is 0.1 mm max.

### Mounting Dimensions (Top View)

Tolerance:  $\pm 0.1$  mm

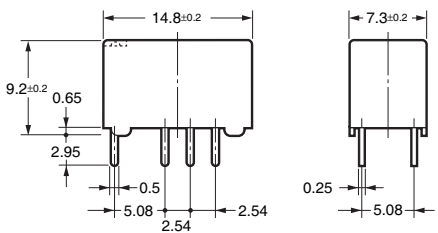
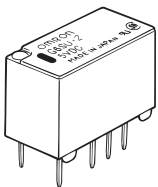


### Terminal Arrangement/ Internal Connections (Top View)



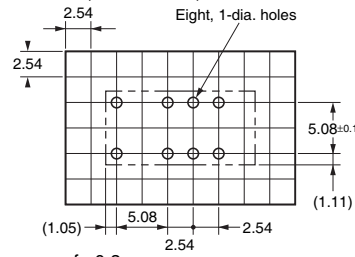
Note: Check carefully the coil polarity of the Relay.

G6SU-2  
G6SU-2-Y

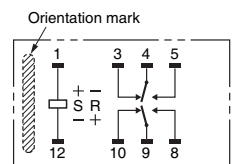


Note: Each value has a tolerance of  $\pm 0.3$  mm.

### PCB Mounting Holes (Bottom View)

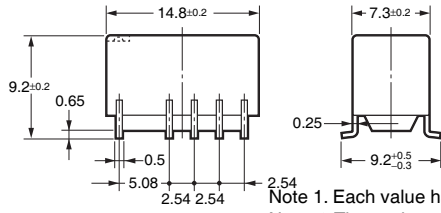
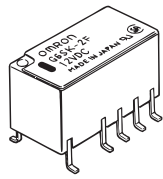


### Terminal Arrangement/ Internal Connections (Bottom View)



Note: Check carefully the coil polarity of the Relay.

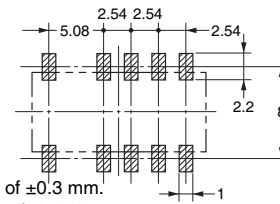
## Double-winding Latching G6SK-2F



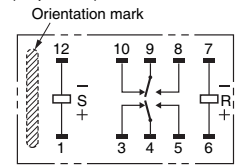
Note 1. Each value has a tolerance of ±0.3 mm.  
Note 2. The coplanarity of the terminals is 0.1 mm max.

### Mounting Dimensions (Top View)

Tolerance: ±0.1 mm

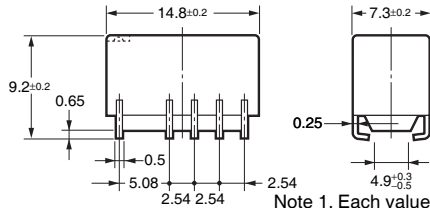
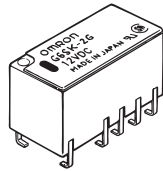


### Terminal Arrangement/ Internal Connections (Top View)



Note: Check carefully the coil polarity of the Relay.

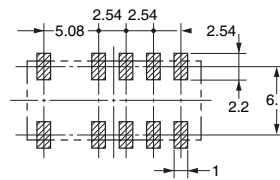
## G6SK-2G



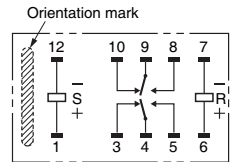
Note 1. Each value has a tolerance of ±0.3 mm.  
Note 2. The coplanarity of the terminals is 0.1 mm max.

### Mounting Dimensions (Top View)

Tolerance: ±0.1 mm

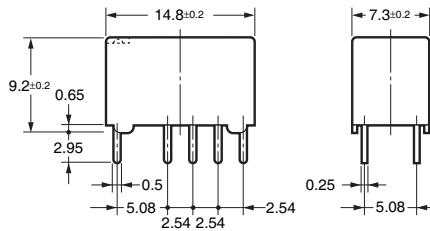
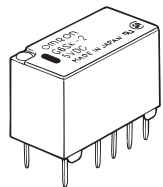


### Terminal Arrangement/ Internal Connections (Top View)



Note: Check carefully the coil polarity of the Relay.

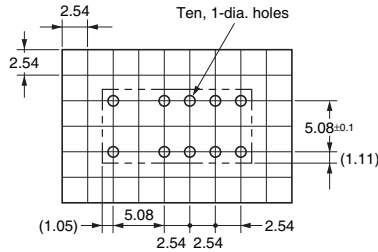
## G6SK-2



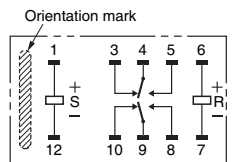
Note: Each value has a tolerance of ±0.3 mm.

### PCB Mounting Holes (Bottom View)

Ten, 1-dia. holes



### Terminal Arrangement/ Internal Connections (Bottom View)



Note: Check carefully the coil polarity of the Relay.

## ■ Tube Packing and Tape Packing

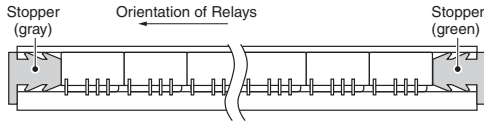
Surface mounting terminal (SMT) standard models are shipped in moisture-proof package, and PCB terminal standard types do not require moisture proof packaging and therefore shipped in non-moisture-proof package.

Please refer to "Correct Use" for handling after opening moisture-proof packaging for Surface mounting terminal (SMT) models.

### (1) Tube Packing

- Relays in tube packing are arranged so that the orientation mark of each Relay is on the left side.

Be sure not to make mistakes in Relay orientation when mounting the Relay to the PCB.



Tube length: 772 mm (stopper not included)

No. of Relays per tube: 50 pcs

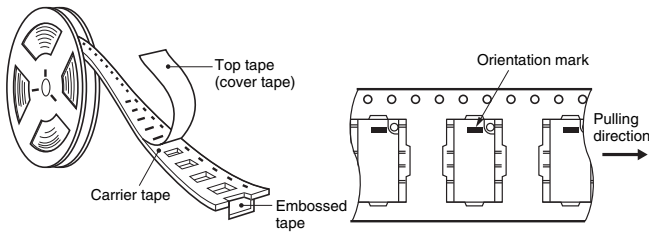
### (2) Tape Packing (Surface Mounting Terminal Models)

- When ordering Relays in tape packing, add the prefix "-TR" to the model number, otherwise the Relays in tube packing will be provided.

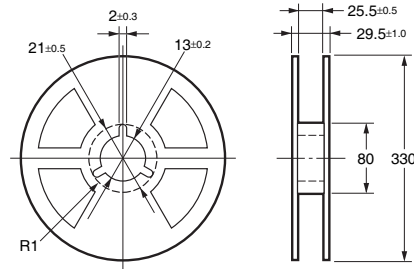
Relays per Reel: 400 pcs

Minimum packing unit: 2 reels (800 pcs)

#### 1. Direction of Relay Insertion

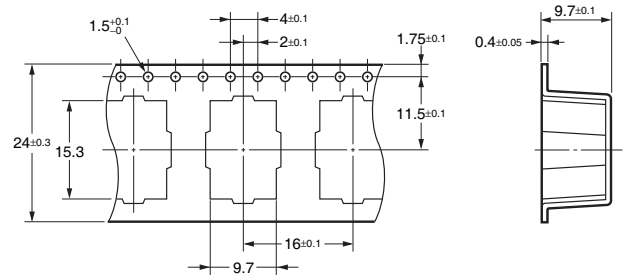


### 2. Reel Dimensions

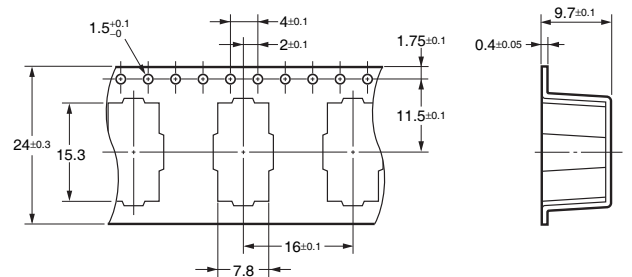


### 3. Carrie Tape Dimensions

#### G6S-2F(-Y), G6SU-2F, G6SK-2F



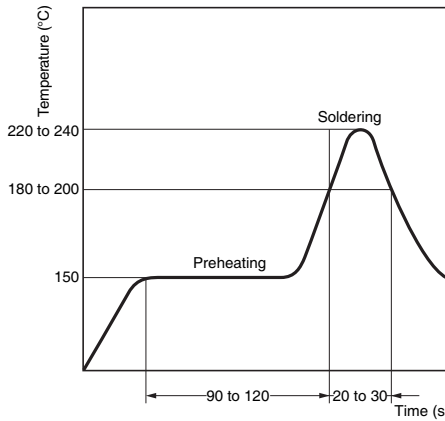
#### G6S-2G(-Y), G6SU-2G, G6SK-2G





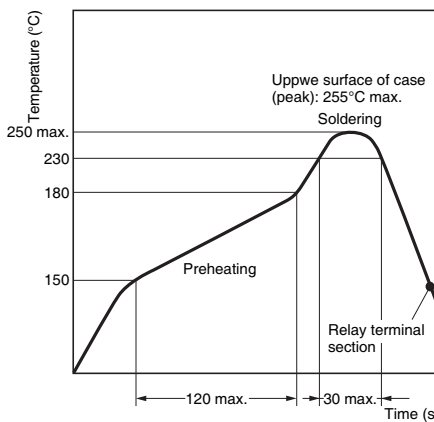
## Recommended Soldering Method

### (1) IRS Method (Mounting Solder: Lead)



(The temperature profile indicates the temperature on the circuit board surface.)

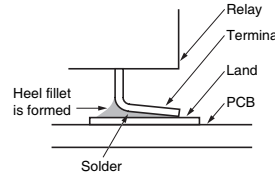
### (2) IRS Method (Mounting Solder: Lead-free)



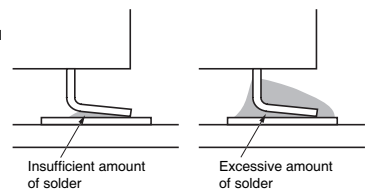
(The temperature profile indicates the temperature on the PCB.)

- The thickness of cream solder to be applied should be within a range between 150 and 200  $\mu\text{m}$  on OMRON's recommended PCB pattern.
- In order to perform correct soldering, it is recommended that the correct soldering conditions be maintained as shown below on the left side.

#### Correct Soldering



#### Incorrect Soldering



Visually check that the Relay is properly soldered.

## Approved Standards

UL recognized: (File No. E41515)

CSA certified: (File No. LR31928)

Contact form	Coil ratings	Contact ratings	Number of test operations
DPDT (2c)	3 to 24 VDC	3 A, 30 VDC at 40°C 0.3 A, 110 VDC at 40°C 0.5 A, 125 VAC at 40°C	6,000

BSI (EN62368-1) (File No. VC657351)

(-Y type)

Contact form	Isolation category	Voltage
DPDT (2c)	Supplementary Insulation	250 VAC

## Precautions

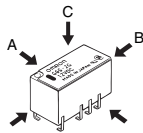
- Please refer to "PCB Relays Common Precautions" for correct use.

### Correct Use

- **Long-term Continuously ON Contacts**
- Using the Relay in a circuit where the Relay will be ON continuously for long periods (without switching) can lead to unstable contacts because the heat generated by the coil itself will affect the insulation, causing a film to develop on the contact surfaces. We recommend using a latching relay (magnetic-holding relay) in this kind of circuit. If a single-side stable model must be used in this kind of circuit, we recommend using a fail-safe circuit design that provides protection against contact failure or coil burnout.
- **Relay Handling**
- Use the Relay as soon as possible after opening the moistureproof package. (As a guideline, use the Relay within one week at 30°C or less and 60% RH or less.) If the Relay is left for a long time after opening the moisture-proof package, the appearance may suffer and seal failure may occur after the solder mounting process. To store the Relay after opening the moisture-proof package, place it into the original package and sealed the package with adhesive tape.
- When washing the product after soldering the Relay to a PCB, use a water-based solvent or alcohol-based solvent, and keep the solvent temperature to less than 40°C. Do not put the Relay in a cold cleaning bath immediately after soldering.
- **Claw Securing Force During Automatic Mounting**



- During automatic insertion of Relays, be sure to set the securing force of each claw to the following so that the Relay's characteristics will be maintained.



Dimension A: 1.96 N max.  
Dimension B: 4.90 N max.  
Dimension C: 1.96 N max.

- Application examples provided in this document are for reference only. In actual applications, confirm equipment functions and safety before using the product.
- Consult your OMRON representative before using the product under conditions which are not described in the manual or applying the product to nuclear control systems, railroad systems, aviation systems, vehicles, combustion systems, medical equipment, amusement machines, safety equipment, and other systems or equipment that may have a serious influence on lives and property if used improperly. Make sure that the ratings and performance characteristics of the product provide a margin of safety for the system or equipment, and be sure to provide the system or equipment with double safety mechanisms.

**Note: Do not use this document to operate the Unit.**

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