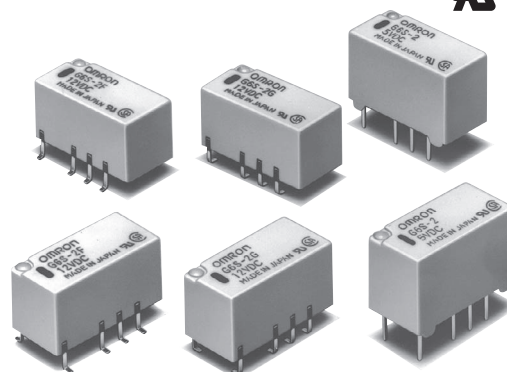


### Surface-mounting, double-pole signal switching Relay, with terminals jutting out from both sides of the case



- Long terminals for ideal for soldering and mounting reliability. (Surface mounting terminal models)
- Space-saving inside-L terminal. (Surface mounting terminal models)
- Unique terminal construction allowing the terminal temperature to rise easily, ideal for soldering reliability. (Surface mounting terminal models)
- High dielectric strength (2,000 VAC) and impulse withstand voltage between coil and contacts (2,500 V,  $2 \times 10 \mu\text{s}$ : Telcordia requirements).
- High sensitivity with 140 mW rated power consumption.
- Ultra-miniature at 9.4 mm (H)  $\times$  7.5 mm (W)  $\times$  15 mm (L).
- Applicable to IRS using heat-resistant material.
- Standard model conforms to UL/CSA standards.
- Model with PCB terminals (G6S□-2) is added to this series.
- EN60950 certified type is available. (-Y type)

RoHS Compliant

#### Model Number Legend

G6S□-□□-□  
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 : EN60950 certified

#### Application Examples

- Telecommunication equipment
- Measurement devices
- Office automation machines
- Audio-visual products.

#### Ordering Information

##### Surface mounting terminal standard models (UL, CSA certified)

| Enclosure rating | Relay Function | Single-side stable |                    | Single-winding latching |                    | Double-winding latching |                    | Minimum packing unit          | Minimum ordering unit (tape packing) |
|------------------|----------------|--------------------|--------------------|-------------------------|--------------------|-------------------------|--------------------|-------------------------------|--------------------------------------|
|                  | Contact form   | Model              | Rated coil voltage | Model                   | Rated coil voltage | Model                   | Rated coil voltage |                               |                                      |
| Fully sealed     | DPDT (2c)      | G6S-2F<br>G6S-2G   | 3 VDC              | G6SU-2F<br>G6SU-2G      | 3 VDC              | G6SK-2F<br>G6SK-2G      | 3 VDC              | 50 pcs/tube<br>(400 pcs/reel) | 800 pcs/<br>2 reels                  |
|                  |                |                    | 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             |                               |                                      |

##### Surface mounting terminal standard models (EN60950 certified)

| Enclosure rating | Relay Function | Single-side stable   |                    | Minimum packing unit          | Minimum ordering unit (tape packing) |
|------------------|----------------|----------------------|--------------------|-------------------------------|--------------------------------------|
|                  | Contact form   | Model                | Rated coil voltage |                               |                                      |
| Fully sealed     | DPDT (2c)      | G6S-2F-Y<br>G6S-2G-Y | 5 VDC              | 50 pcs/tube<br>(400 pcs/reel) | 800 pcs/<br>2 reels                  |
|                  |                |                      | 12 VDC             |                               |                                      |
|                  |                |                      | 24 VDC             |                               |                                      |

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

Example: G6S-2F 3 VDC

Rated coil voltage

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.

●PCB Terminal Standard Models (UL, CSA certified)

| 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             |                      |

●PCB Terminal Standard Models (EN60950 certified)

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

Note: When ordering, add the rated coil voltage to the model number.  
Example: G6S-2 3 VDC  
                                └── Rated coil voltage

■Ratings

●Single-side Stable Model (G6S-2, G6S-2F, G6S-2G)

| Item          | Rated current (mA) | Coil resistance (Ω) | Must operate voltage (V) | Must release voltage (V) | Max. voltage (V) | Power consumption (mW) |
|---------------|--------------------|---------------------|--------------------------|--------------------------|------------------|------------------------|
| Rated voltage |                    |                     | % of rated voltage       |                          |                  |                        |
| 3 VDC         | 46.7               | 64.3                | 75% max.                 | 10% min.                 | 200% (at 23°C)   | Approx. 140            |
| 4.5 VDC       | 31.0               | 145                 |                          |                          |                  |                        |
| 5 VDC         | 28.1               | 178                 |                          |                          | 170% (at 23°C)   | Approx. 200            |
| 12 VDC        | 11.7               | 1,028               |                          |                          |                  |                        |
| 24 VDC        | 8.3                | 2,880               |                          |                          |                  |                        |

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;<br>2 A at 30 VDC |                |
| Rated carry current    | 2 A                                |                |
| Max. switching voltage | 250 VAC, 220 VDC                   |                |
| Max. switching current | 2 A                                |                |

●Single-winding Latching Model (G6SU-2, G6SU-2F, G6SU-2G)

| Item          | Rated current (mA) | Coil resistance (Ω) | Must set voltage (V) | Must reset voltage (V) | Max. voltage (V) | Power consumption (mW) |
|---------------|--------------------|---------------------|----------------------|------------------------|------------------|------------------------|
| Rated voltage |                    |                     | % of rated voltage   |                        |                  |                        |
| 3 VDC         | 33.3               | 90                  | 75% max.             | 75% max.               | 180% (at 23°C)   | Approx. 100            |
| 4.5 VDC       | 22.2               | 203                 |                      |                        |                  |                        |
| 5 VDC         | 20                 | 250                 |                      |                        | 140% (at 23°C)   | Approx. 300            |
| 12 VDC        | 8.3                | 1,440               |                      |                        |                  |                        |
| 24 VDC        | 6.3                | 1,152               |                      |                        |                  |                        |

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 (G6SK-2, G6SK-2F, G6SK-2G)

| Item          | Rated current (mA) | Coil resistance (Ω) | Must set voltage (V) | Must reset voltage (V) | Max. voltage (V) | Power consumption (mW) |
|---------------|--------------------|---------------------|----------------------|------------------------|------------------|------------------------|
| Rated voltage |                    |                     | % of rated voltage   |                        |                  |                        |
| 3 VDC         | 66.6               | 45                  | 75% max.             | 75% max.               | 170% (at 23°C)   | Approx. 200            |
| 4.5 VDC       | 44.4               | 101                 |                      |                        |                  |                        |
| 5 VDC         | 40                 | 125                 |                      |                        | 140% (at 23°C)   | Approx. 300            |
| 12 VDC        | 16.7               | 720                 |                      |                        |                  |                        |
| 24 VDC        | 12.5               | 1,920               |                      |                        |                  |                        |

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.

●EN60950 certified Model (G6S-2F-Y, G6S-2G-Y, G6S-2-Y)

| Item          | Rated current (mA) | Coil resistance (Ω) | Must operate voltage (V) | Must release voltage (V) | Max. voltage (V) | Power consumption (mW) |
|---------------|--------------------|---------------------|--------------------------|--------------------------|------------------|------------------------|
| Rated voltage |                    |                     | % of rated voltage       |                          |                  |                        |
| 5 VDC         | 40                 | 125                 | 75% max.                 | 10% min.                 | 170% (at 23°C)   | Approx. 200            |
| 12 VDC        | 16.7               | 720                 |                          |                          |                  | Approx. 230            |
| 24 VDC        | 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.

## ■Characteristics

| Item                                        |                                        | Relay Function                                                                                                                                   | Single-side Stable<br>G6S-2, G6S-2F,<br>G6S-2G                                                                                                                                          | Single-winding Latching<br>G6SU-2, G6SU-2F,<br>G6SU-2G | Double-winding Latching<br>G6SK-2, G6SK-2F,<br>G6SK-2G | EN60950 certified<br>G6S-2F-Y, G6S-2G-Y,<br>G6S-2-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                                                  |                                                        | —                                                   |
| 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  | 1,500 VAC, 50/60 Hz for 1 min                                                                                                                    |                                                                                                                                                                                         |                                                        |                                                        |                                                     |
|                                             | Between set and reset coil             | —                                                                                                                                                | 500 VAC, 50/60 Hz for 1 min                                                                                                                                                             |                                                        | —                                                      |                                                     |
| Impulse withstand voltage                   | 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);<br>1,500 V (10 × 160 μs)       |
|                                             | 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)<br>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 type and EN60950 standard approved 24 VDC type |                                                        |                                                        |                                                     |
| Ambient operating humidity                  |                                        |                                                                                                                                                  | 5% to 85%                                                                                                                                                                               |                                                        |                                                        |                                                     |
| Weight                                      |                                        |                                                                                                                                                  | Approx. 2 g                                                                                                                                                                             |                                                        |                                                        |                                                     |

Note: The above values are initial values.

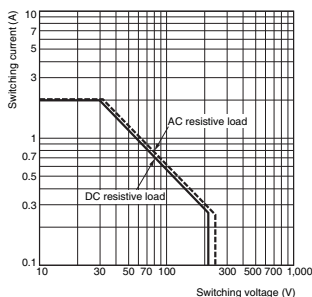
\*1. The contact resistance was measured with 10 mA at 1 VDC with a voltage drop method.

\*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).

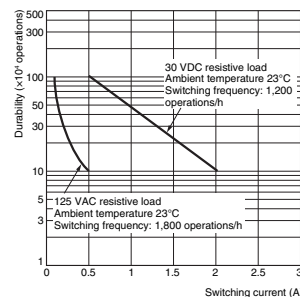
\*3. This value was measured at a switching frequency of 120 operations/min. This value may vary, depending on switching frequency, operating conditions, expected reliability level of the relay, etc. It is always recommended to double-check relay suitability under actual load conditions.

## ■Engineering Data

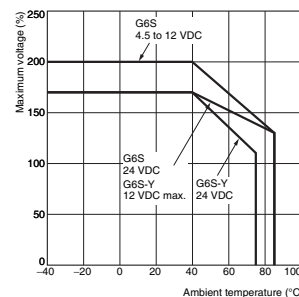
### ●Maximum Switching Capacity



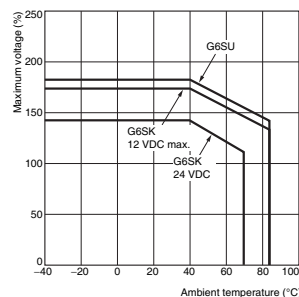
### ●Durability G6S-2F(G)



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

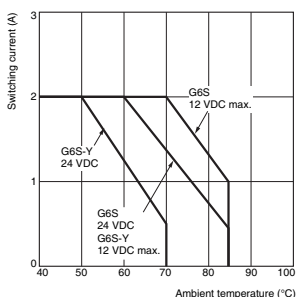


### ●Ambient Temperature vs. Maximum Voltage (Latching)

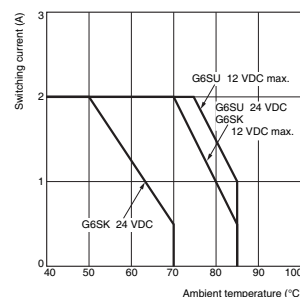


Note: "Maximum voltage" is the maximum voltage that can be applied to the Relay coil.

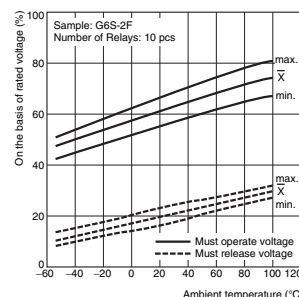
### ●Ambient Temperature vs. Switching Current (Single-side Stable)



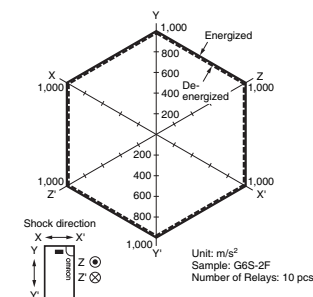
### ●Ambient Temperature vs. Switching Current (Latching)



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

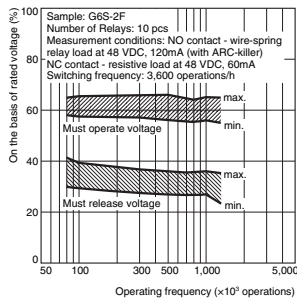


### ●Shock Malfunction G6S-2F(G)

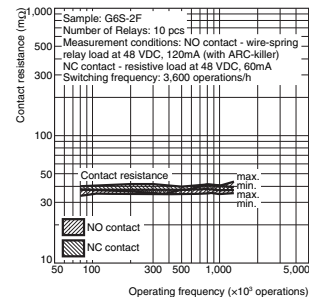


Conditions: Shock is applied in  $\pm X$ ,  $\pm Y$ , and  $\pm Z$  directions three times each with and without energizing the Relays to check the number of contact malfunctions.

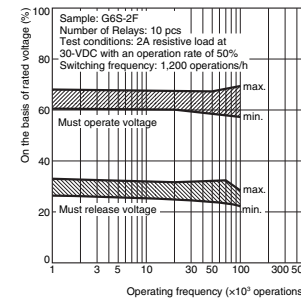
### ●Electrical Endurance (with Must Operate and Must Release Voltage) \*1 G6S-2F(G)



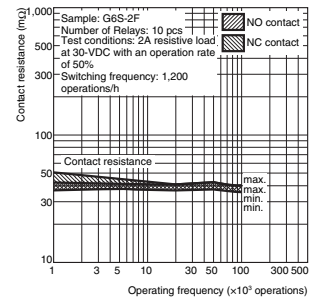
### ●Electrical Endurance (Contact Resistance) \*1 G6S-2F(G)



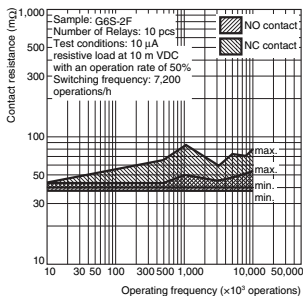
### ●Electrical Endurance (with Must Operate and Must Release Voltage) \*1 G6S-2F(G)



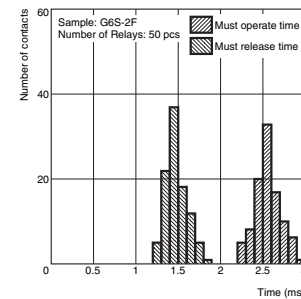
### ●Electrical Endurance (Contact Resistance) \*1 G6S-2F(G)



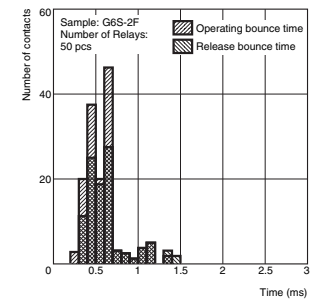
### ●Contact Reliability Test (Contact Resistance) \*1, \*2 G6S-2F(G)



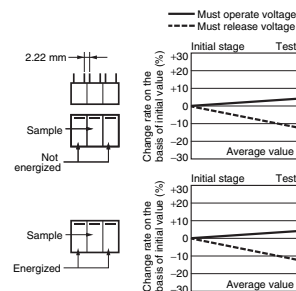
### ●Must Operate and Must Release Time Distribution \*1 G6S-2F(G)



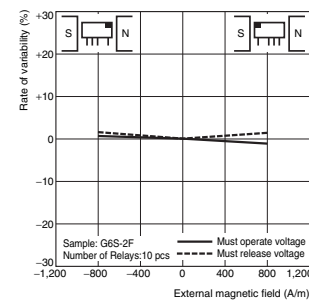
### ●Distribution of Bounce Time \*1 G6S-2F(G)



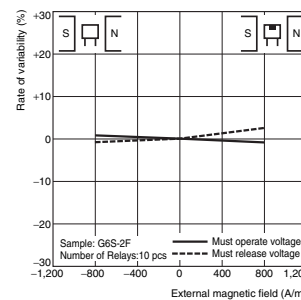
### ●Mutual Magnetic Interference G6S-2F(G)



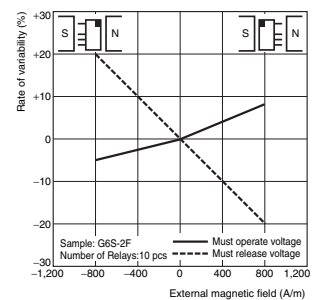
### ●External Magnetic Interference G6S-2F(G)



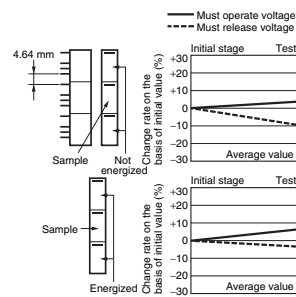
### ●External Magnetic Interference G6S-2F(G)



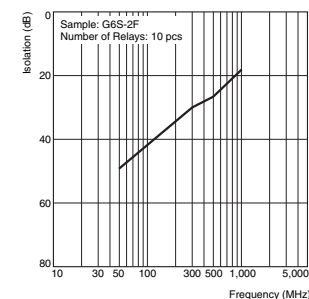
### ●External Magnetic Interference G6S-2F(G)



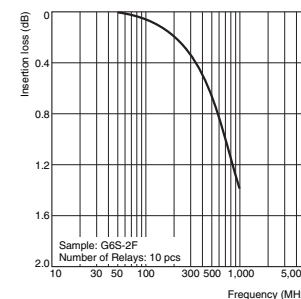
### ●Mutual Magnetic Interference G6S-2F(G)



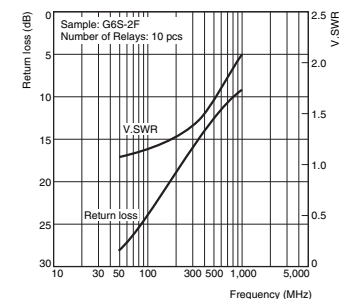
### ●High-frequency Characteristics (Isolation) \*1, \*2 G6S-2F(G) (Average value (initial))



### ●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.

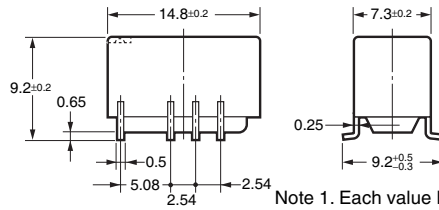
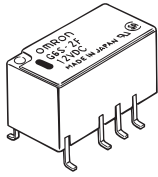
\*3. High-frequency characteristics depend on the PCB to which the Relay is mounted. Always check these characteristics, including durability, in the actual machine before use.

## ■Dimensions

### Single-side Stable

G6S-2F

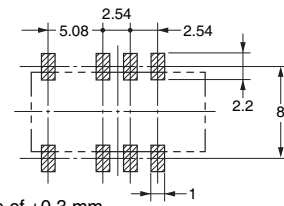
G6S-2F-Y



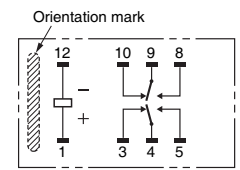
Note 1. Each value has a tolerance of  $\pm 0.3$  mm.  
Note 2. The coplanarity of the terminals is 0.1 mm max.

### Mounting Dimensions (Top View)

Tolerance:  $\pm 0.1$  mm

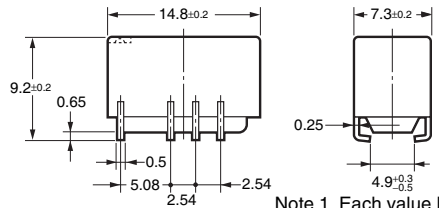
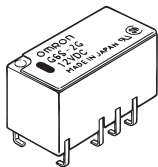


### Terminal Arrangement/ Internal Connections (Top View)



G6S-2G

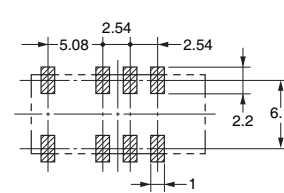
G6S-2G-Y



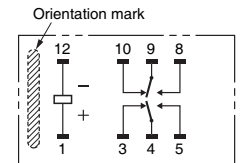
Note 1. Each value has a tolerance of  $\pm 0.3$  mm.  
Note 2. The coplanarity of the terminals is 0.1 mm max.

### Mounting Dimensions (Top View)

Tolerance:  $\pm 0.1$  mm

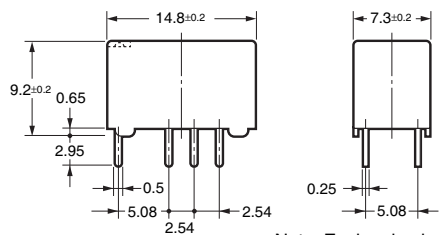
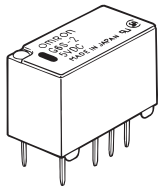


### Terminal Arrangement/ Internal Connections (Top View)



G6S-2

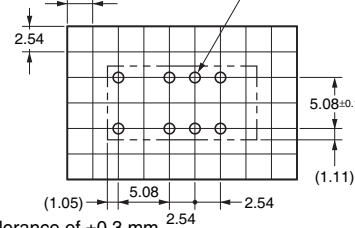
G6S-2-Y



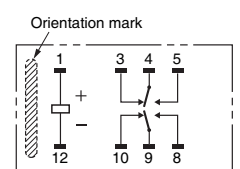
Note: Each value has a tolerance of  $\pm 0.3$  mm.

### PCB Mounting Holes (Bottom View)

Eight, 1-dia. holes

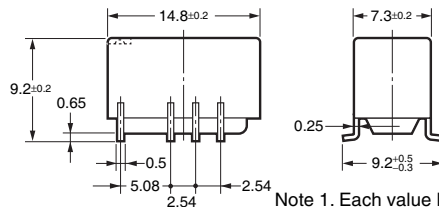
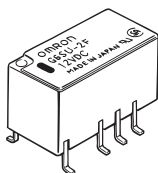


### Terminal Arrangement/ Internal Connections (Bottom View)



### Single-winding Latching

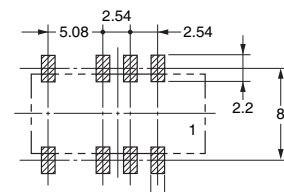
G6SU-2F



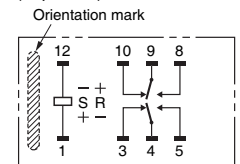
Note 1. Each value has a tolerance of  $\pm 0.3$  mm.  
Note 2. The coplanarity of the terminals is 0.1 mm max.

### Mounting Dimensions (Top View)

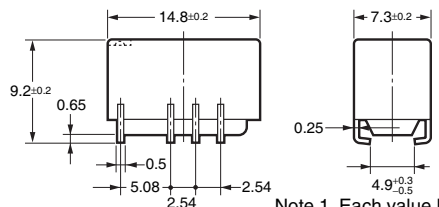
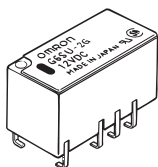
Tolerance:  $\pm 0.1$  mm



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



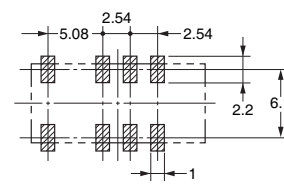
G6SU-2G



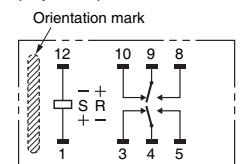
Note 1. Each value has a tolerance of  $\pm 0.3$  mm.  
Note 2. The coplanarity of the terminals is 0.1 mm max.

### Mounting Dimensions (Top View)

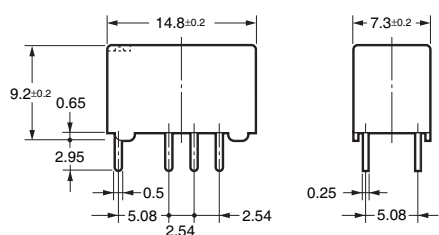
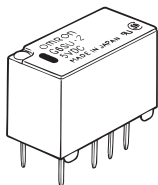
Tolerance:  $\pm 0.1$  mm



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



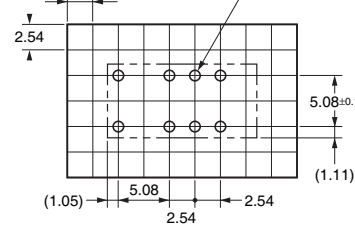
G6SU-2



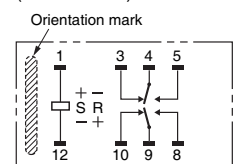
Note: Each value has a tolerance of  $\pm 0.3$  mm.

### PCB Mounting Holes (Bottom View)

Eight, 1-dia. holes

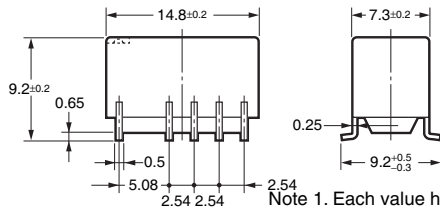
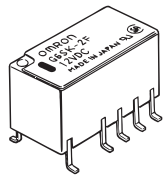


### Terminal Arrangement/ Internal Connections (Bottom View)



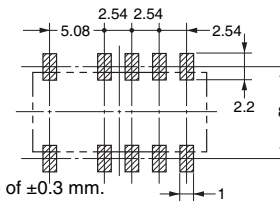
G  
6  
S

### Double-winding Latching G6SK-2F

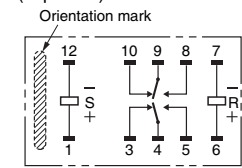


Note 1. Each value has a tolerance of  $\pm 0.3$  mm.  
Note 2. The coplanarity of the terminals is 0.1 mm max.

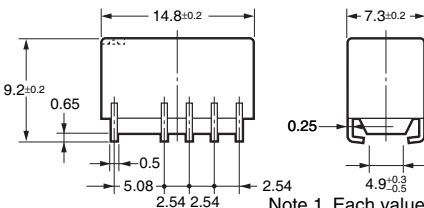
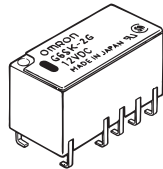
### Mounting Dimensions (Top View) Tolerance: $\pm 0.1$ mm



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

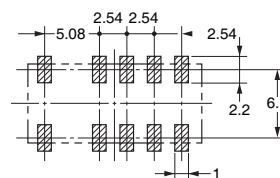


### G6SK-2G

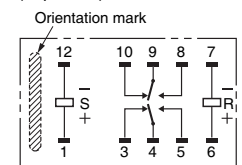


Note 1. Each value has a tolerance of  $\pm 0.3$  mm.  
Note 2. The coplanarity of the terminals is 0.1 mm max.

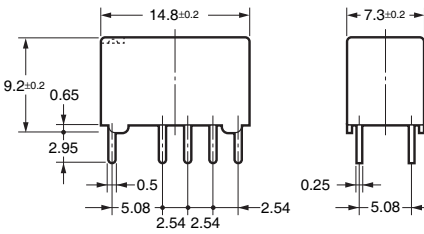
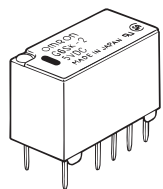
### Mounting Dimensions (Top View) Tolerance: $\pm 0.1$ mm



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

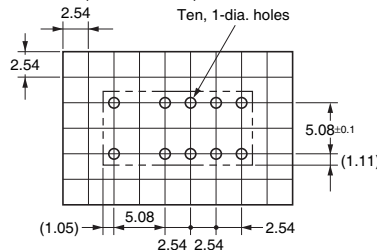


### G6SK-2

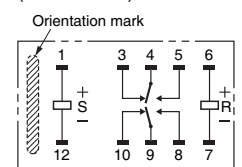


Note: Each value has a tolerance of  $\pm 0.3$  mm.

### PCB Mounting Holes (Bottom View)



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



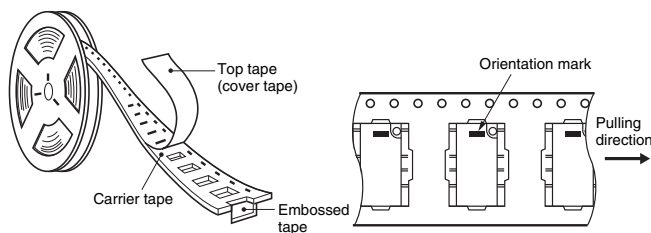
## Tape Packing (Surface Mounting Terminal Models)

- 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

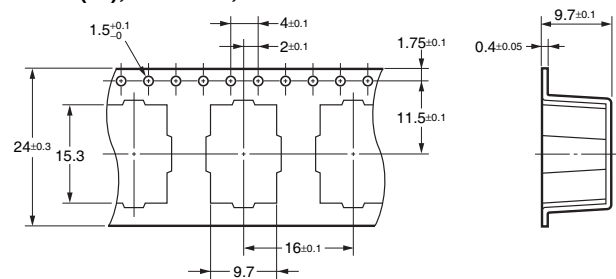
Minimum ordering unit: 2 reels (800 pcs)

### (1) Direction of Relay Insertion

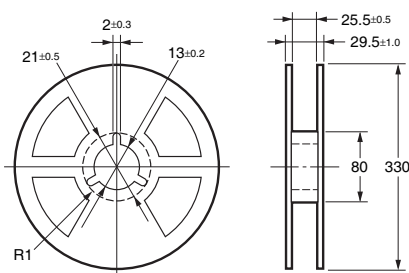


### (3) Carrie Tape Dimensions

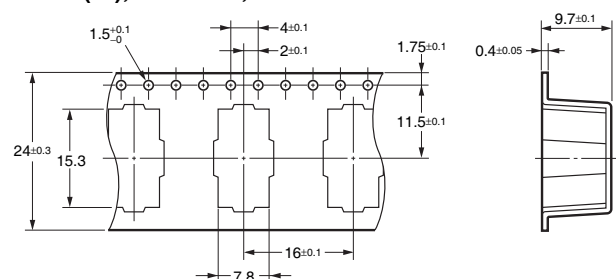
#### G6S-2F(-Y), G6SU-2F, G6SK-2F



### (2) Reel Dimensions

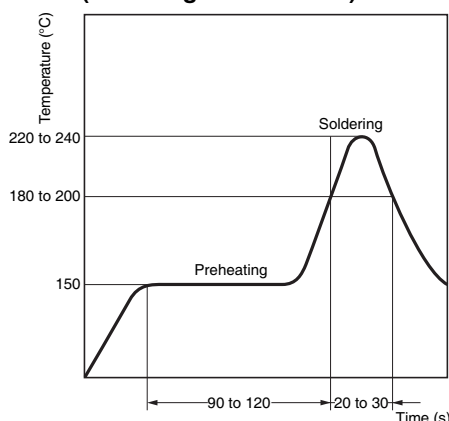


### G6S-2G(-Y), G6SU-2G, G6SK-2G



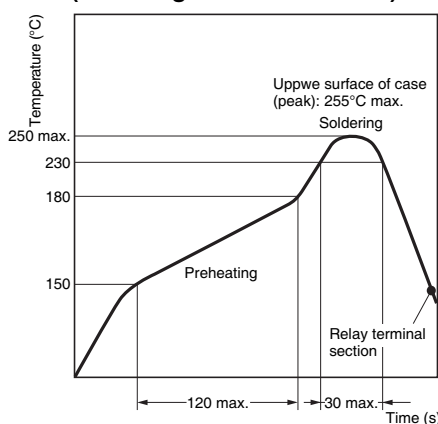
## Recommended Soldering Method

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



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

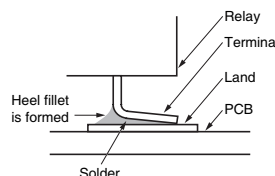
### (2) IRS Method (Mounting Solder: Lead-free)



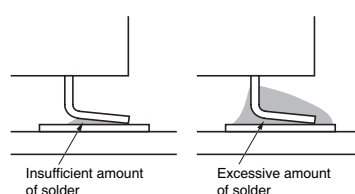
(The temperature profile indicates the temperature on the PCB.)

- 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)    | 2 to 48 VDC  | 3 A, 30 VDC at 40°C<br>0.3 A, 110 VDC at 40°C<br>0.5 A, 125 VAC at 40°C | 6,000                     |

EN/IEC (File No. 8064)

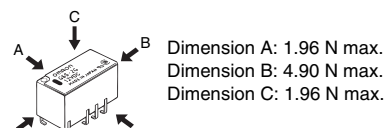
| Contact form | Isolation category      | Voltage |
|--------------|-------------------------|---------|
| DPDT (2c)    | Supplementary Isolation | 250 VAC |

## 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. 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.



- 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.**