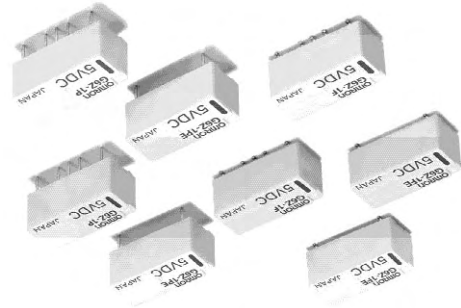


Surface-Mounting High-Frequency Relay – G6Z

Surface-mounting, 2.6-GHz-Band, Miniature, SPDT, High-Frequency Relay

- ROHS compliant.
- Superior high-frequency characteristics, such as an isolation of 30 dB min., insertion loss of 0.5 dB max., and VSWR of 1.5 max. at 2.6 GHz.
- Surface-mounting terminals and superior high frequency characteristics combined using semi triplate strip transmission lines.
- Miniature dimensions of 20 x 8.6 x 8.9 mm (L x W x H).
- Choose from a lineup that includes single-winding latching models (200 mW), double-winding latching models (360 mW), and models with a reverse contact arrangement.
- Series includes models with an E-shape terminal structure (same as existing models), and models with a Y-shape terminal structure, allowing greater freedom with PCB design.
- Models with 75- Ω impedance and models with 50- Ω impedance are available.



Ordering Information

G6Z-□-□-□-□-□-□
Model Number Legend

- Relay Function**
None: Single-side stable
U: Single-winding latching
K: Double-winding latching
- Contact Form**
1: SPDT
- Terminal Shape**
F: Surface-mounting terminals
P: PCB terminals
- Terminal Structure**
None: Y-shape terminal structure
E: E-shape terminal structure
- Characteristic Impedance**
None: 75 Ω
A: 50 Ω
- Contact Arrangement**
None: Standard contact arrangement
R: Reverse contact arrangement

Surface-Mounting High-Frequency Relay – G6Z

List of Models

Standard Models with PCB Terminals

Model	Rated coil voltage	Characteristic impedance	Terminal arrangement	Contact form	Structure	Classification	Single-side stable	Single-winding latching	Double-winding latching
G6Z-1PE	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	E-shape	SPDT	Plastic	Single-side stable			
G6Z-1PA	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1P	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	Y-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1P	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1PE	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	E-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1P	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	E-shape						
G6Z-1PE	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1P	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	Y-shape						
G6Z-1PE	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1P	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	E-shape						
G6Z-1PA	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1P	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	Y-shape						
G6Z-1PE	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1P	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	E-shape						
G6Z-1PA	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1P	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	Y-shape						
G6Z-1PE	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1P	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	E-shape						
G6Z-1PA	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1P	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	Y-shape						
G6Z-1PE	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1P	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	E-shape						
G6Z-1PA	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1P	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	Y-shape						
G6Z-1PE	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1P	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	E-shape						
G6Z-1PA	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1P	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	Y-shape						
G6Z-1PE	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1P	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	E-shape						
G6Z-1PA	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1P	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	Y-shape						
G6Z-1PE	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1P	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	E-shape						
G6Z-1PA	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1P	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	Y-shape						
G6Z-1PE	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1P	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	E-shape						
G6Z-1PA	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1P	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	Y-shape						
G6Z-1PE	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1P	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	E-shape						
G6Z-1PA	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1P	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	Y-shape						
G6Z-1PE	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1P	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	E-shape						
G6Z-1PA	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1P	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	Y-shape						
G6Z-1PE	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
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G6Z-1PE	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
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G6Z-1PE	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1P	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	E-shape						
G6Z-1PA	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC								

Surface-Mounting High-Frequency Relay – G6Z

Surface-mounting, 2.6-GHz-Band, Miniature, SPDT, High-Frequency Relay

■ ROHS compliant.

■ Superior high-frequency characteristics, such as an isolation of 30 dB min., insertion loss of 0.5 dB max., and VSWR of 1.5 max. at 2.6 GHz.

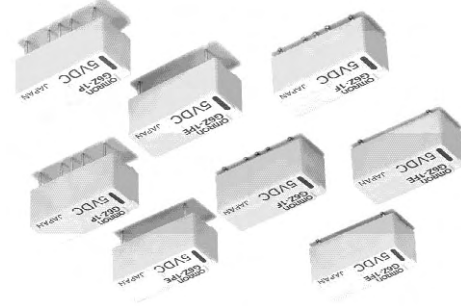
■ Surface-mounting terminals and superior high frequency characteristics combined using semi triplate strip transmission lines.

■ Miniature dimensions of 20 x 8.6 x 8.9 mm (L x W x H).

■ Choose from a lineup that includes single-winding latching models (200 mW), double-winding latching models (360 mW), and models with a reverse contact arrangement.

■ Series includes models with an E-shape terminal structure (same as existing models), and models with a Y-shape terminal structure, allowing greater freedom with PCB design.

■ Models with 75- Ω impedance and models with 50- Ω impedance are available.



Model Number Legend

G6Z-□-□-□-□-□-□-□-□

1. Relay Function

None: Single-side stable

U: Single-winding latching

K: Double-winding latching

2. Contact Form

1: SPDT

F: Surface-mounting terminals

P: PCB terminals

3. Terminal Shape

None: Standard contact arrangement

R: Reverse contact arrangement

6. Contact Arrangement

A: 50 Ω

None: 75 Ω

5. Characteristic Impedance

E: E-shape terminal structure

None: Y-shape terminal structure

4. Terminal Structure

Ordering Information

Surface-Mounting High-Frequency Relay – G6Z

■ List of Models

Standard Models with PCB Terminals

Model	Rated coil voltage	Characteristic impedance	Terminal arrangement	Contact form	Structure	Classification	Single-side stable	Single-winding latching	Double-winding latching
G6Z-1PE	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	E-shape	SPDT	Plastic	Single-side stable			
G6Z-1PA	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1PA	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	Y-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1PE	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	E-shape						
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G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	E-shape						
G6Z-1PA	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	E-shape						
G6Z-1PE	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1PA	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	Y-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1PA	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	Y-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1PE	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	E-shape						
G6Z-1PA	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	E-shape						
G6Z-1PA	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	E-shape						
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G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1PA	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	Y-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1PE	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	E-shape						
G6Z-1PA	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
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G6Z-1PA	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	E-shape						
G6Z-1PE	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
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G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
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G6Z-1PE	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	E-shape						
G6Z-1PA	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	E-shape						
G6Z-1PA	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	E-shape						
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G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	E-shape						
G6Z-1PA	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	E-shape						
G6Z-1PE	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1PA	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	Y-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1PA	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	Y-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1PE	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	E-shape						
G6Z-1PA	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	E-shape						
G6Z-1PA	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	Y-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	E-shape						
G6Z-1PE	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1PA	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	Y-shape						
G6Z-1PE-A	3, 4.5, 5, 9, 12, and 24 VDC	50 Ω	E-shape						
G6Z-1PA	3, 4.5, 5, 9, 12, and 24 VDC	75 Ω	Y-shape						
G6Z-1PE-A	3, 4.								

Surface-Mounting High-Frequency Relay – G6Z

Specifications

■ Contact Ratings

Load	Resistive load
Rated load	10 mA at 30 VAC; 10 mA at 30 VDC; 10 W at 900 MHz (See note.)
Contact material	Au
Rated carry current	0.5 A
Max. switching voltage	30 VDC, 30 VAC
Max. switching current	0.5 A

Note: This value is for impedance of 50 Ω or 75 Ω with a VSWR of 1.2max.

■ High-Frequency Characteristics

Item	Frequency			
	TH	SMD	TH	SMD
Isolation	75 Ω	65 dB min.	60 dB min.	40 dB min.
	50 Ω	60 dB min.	30 dB min.	40 dB min.
Insertion loss (not including substrate loss)	50 Ω	0.2 dB max.	0.5 dB max.	
	75 Ω	0.1 dB max.		
V.SWR	75 Ω	1.2 max.	1.5 max.	
	50 Ω	1.1 max.		
Return loss	50 Ω	14.0 dB max.	17.7 dB max.	
	75 Ω	26.4 dB max.		
Maximum carry power	10 W (See note 2.)			
Maximum switching power	10 W (See note 2.)			

- Note:** 1. The above values are initial values.
 2. These values are for an impedance of 50 Ω or 75 Ω with a VSWR of 1.2 max.
 3. Contact your Omron representative if the relay will be used in applications that require high repeatability with high-frequency characteristics in microload regions.

Surface-Mounting High-Frequency Relay – G6Z

■ Coil Ratings

Single-side Stable Models

G6Z-1F(E), G6Z-1F(E)

Rated voltage	3 VDC	4.5 VDC	5 VDC	9 VDC	12 VDC	24 VDC
Rated current	66.7 mA	44.4 mA	40.0 mA	22.2 mA	16.7 mA	8.3 mA
Coil resistance	45 Ω	101 Ω	125 Ω	405 Ω	720 Ω	2,880 Ω
Must operate voltage	75% max. of rated voltage					
Must release voltage	10% min. of rated voltage					
Maximum voltage	150% of rated voltage					
Power consumption	Approx. 200 mW					

Single-winding Latching Models

G6ZU-1F(E), G6ZU-1F(E)

Rated voltage	3 VDC	4.5 VDC	5 VDC	9 VDC	12 VDC	24 VDC
Rated current	66.7 mA	44.4 mA	40.0 mA	22.2 mA	16.7 mA	8.3 mA
Coil resistance	45 Ω	101 Ω	125 Ω	405 Ω	720 Ω	2,880 Ω
Must operate voltage	75% max. of rated voltage					
Must release voltage	75% max. of rated voltage					
Maximum voltage	150% of rated voltage					
Power consumption	Approx. 200 mW					

Double-winding Latching Models

G6ZK-1F(E), G6ZK-1F(E)

Rated voltage	3 VDC	4.5 VDC	5 VDC	9 VDC	12 VDC	24 VDC
Rated current	120 mA	80 mA	72 mA	40 mA	30 mA	15 mA
Coil resistance	25 Ω	56 Ω	69 Ω	225 Ω	400 Ω	1,600 Ω
Must operate voltage	75% max. of rated voltage					
Must release voltage	75% max. of rated voltage					
Maximum voltage	150% of rated voltage					
Power consumption	Approx. 360 mW					

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of ±10%.

2. The 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 instantaneously.
 4. The voltage measurements for operate/release and set/reset are the values obtained for instantaneous changes in the voltage (rectangular wave).

Surface-Mounting High-Frequency Relay – G6Z

Specifications

■ Contact Ratings

Load	Resistive load
Rated load	10 mA at 30 VAC; 10 mA at 30 VDC; 10 W at 900 MHz (See note.)
Contact material	Au
Rated carry current	0.5 A
Max. switching voltage	30 VDC, 30 VAC
Max. switching current	0.5 A

Note: This value is for impedance of 50 Ω or 75 Ω with a VSWR of 1.2max.

■ High-Frequency Characteristics

Item	Frequency			
	TH	SMD	TH	SMD
Isolation	75 Ω	65 dB min.	60 dB min.	40 dB min.
	50 Ω	60 dB min.	30 dB min.	40 dB min.
Insertion loss (not including substrate loss)	50 Ω	0.2 dB max.	0.5 dB max.	
	75 Ω	0.1 dB max.		
V.SWR	75 Ω	1.2 max.	1.5 max.	
	50 Ω	1.1 max.	1.3 max.	
Return loss	50 Ω	26.4 dB max.	17.7 dB max.	
	75 Ω	20.8 dB max.	14.0 dB max.	
Maximum carry power	10 W (See note 2.)			
Maximum switching power	10 W (See note 2.)			

- Note:** 1. The above values are initial values.
 2. These values are for an impedance of 50 Ω or 75 Ω with a VSWR of 1.2 max.
 3. Contact your Omron representative if the relay will be used in applications that require high repeatability with high-frequency characteristics in microload regions.

Surface-Mounting High-Frequency Relay – G6Z

■ Coil Ratings

Single-side Stable Models

G6Z-1F(E), G6Z-1F(E)

Rated voltage	3 VDC	4.5 VDC	5 VDC	9 VDC	12 VDC	24 VDC
Rated current	66.7 mA	44.4 mA	40.0 mA	22.2 mA	16.7 mA	8.3 mA
Coil resistance	45 Ω	101 Ω	125 Ω	405 Ω	720 Ω	2,880 Ω
Must operate voltage	75% max. of rated voltage	75% max. of rated voltage	75% max. of rated voltage	75% max. of rated voltage	75% max. of rated voltage	75% max. of rated voltage
Must release voltage	10% min. of rated voltage	10% min. of rated voltage	10% min. of rated voltage	10% min. of rated voltage	10% min. of rated voltage	10% min. of rated voltage
Maximum voltage	150% of rated voltage	150% of rated voltage	150% of rated voltage	150% of rated voltage	150% of rated voltage	150% of rated voltage
Power consumption	Approx. 200 mW					

Single-winding Latching Models

G6ZU-1F(E), G6ZU-1F(E)

Rated voltage	3 VDC	4.5 VDC	5 VDC	9 VDC	12 VDC	24 VDC
Rated current	66.7 mA	44.4 mA	40.0 mA	22.2 mA	16.7 mA	8.3 mA
Coil resistance	45 Ω	101 Ω	125 Ω	405 Ω	720 Ω	2,880 Ω
Must operate voltage	75% max. of rated voltage	75% max. of rated voltage	75% max. of rated voltage	75% max. of rated voltage	75% max. of rated voltage	75% max. of rated voltage
Must release voltage	150% of rated voltage	150% of rated voltage	150% of rated voltage	150% of rated voltage	150% of rated voltage	150% of rated voltage
Maximum voltage	150% of rated voltage	150% of rated voltage	150% of rated voltage	150% of rated voltage	150% of rated voltage	150% of rated voltage
Power consumption	Approx. 200 mW					

Double-winding Latching Models

G6ZK-1F(E), G6ZK-1F(E)

Rated voltage	3 VDC	4.5 VDC	5 VDC	9 VDC	12 VDC	24 VDC
Rated current	120 mA	80 mA	72 mA	40 mA	30 mA	15 mA
Coil resistance	25 Ω	56 Ω	69 Ω	225 Ω	400 Ω	1,600 Ω
Must operate voltage	75% max. of rated voltage	75% max. of rated voltage	75% max. of rated voltage	75% max. of rated voltage	75% max. of rated voltage	75% max. of rated voltage
Must release voltage	75% max. of rated voltage	75% max. of rated voltage	75% max. of rated voltage	75% max. of rated voltage	75% max. of rated voltage	75% max. of rated voltage
Maximum voltage	150% of rated voltage	150% of rated voltage	150% of rated voltage	150% of rated voltage	150% of rated voltage	150% of rated voltage
Power consumption	Approx. 360 mW					

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of ±10%.

2. The 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 instantaneously.

4. The voltage measurements for operate/release and set/reset are the values obtained for instantaneous changes in the voltage (rectangular wave).

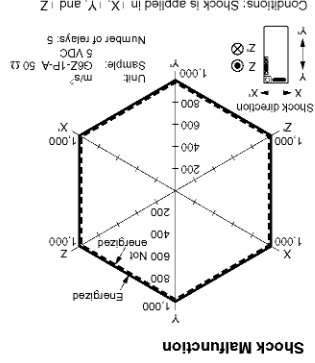
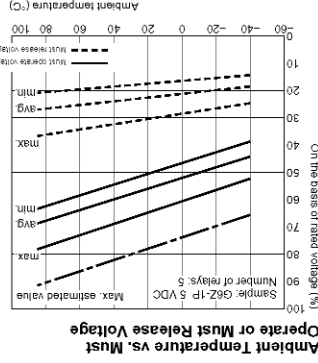
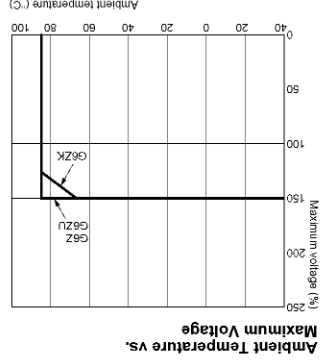
Surface-Mounting High-Frequency Relay – G6Z

Characteristics

Item	G6Z-1P(E), G6Z-1F(E)	G6ZU-1P(E), G6ZU-1F(E)	G6ZK-1P(E), G6ZK-1F(E)
Contact resistance (See note 2.)	100 mΩ max.	10 ms max. (approx. 3.5 ms)	10 ms max. (approx. 2.5 ms)
Operating (set) time (See note 3.)	10 ms max. (approx. 2.5 ms)	12 ms	---
Release (reset) time (See note 3.)	10 ms max. (approx. 2.5 ms)	---	---
Minimum set/reset pulse time	---	---	---
Insulation resistance (See note 4.)	100 MΩ min. (at 500 VDC)	---	---
Dielectric strength	Coil and contacts	1,000 VAC, 50/60 Hz for 1 min	1,000 VAC, 50/60 Hz for 1 min
	Coil and ground, contacts	500 VAC, 50/60 Hz for 1 min	500 VAC, 50/60 Hz for 1 min
	Contacts of same polarity	500 VAC, 50/60 Hz for 1 min	500 VAC, 50/60 Hz for 1 min
Vibration resistance	Destruction: 10 to 55 to 10 Hz, 0.75-mm single amplitude (1.5-mm double amplitude) Malfunction: 10 to 55 to 10 Hz, 0.75-mm single amplitude (1.5-mm double amplitude)		
Shock resistance	Destruction: 1,000 m/s ² Malfunction: 500 m/s ²		
Endurance	Mechanical: 1,000,000 operations min. (at 36,000 operations/hour) Electrical: 300,000 operations min. (30 VAC, 10 mA/30 VDC, 10 mA), 100,000 operations min. (900 MHz, 10 W) at a switching frequency of 1,800 operations/hour		
Ambient temperature	Operating: -40°C to 70°C (with no icing or condensation) Ambient humidity: 5% to 85%		
Weight	Approx. 2.8 g		

Note: 1. The above values are initial values.
 2. The contact resistance was measured with 10 mA at 1 VDC with a voltage drop method.
 3. Values in parentheses are actual values.
 4. The insulation resistance was measured with a 500-VDC megohmmeter applied to the same parts as those used for checking the dielectric strength.

Engineering Data



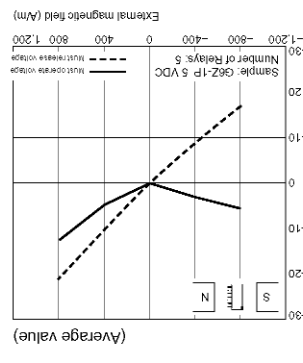
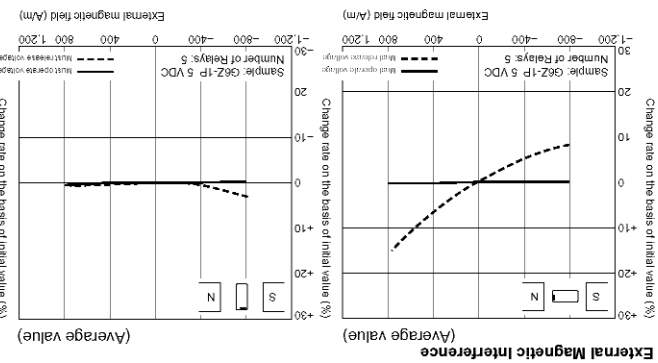
Surface-Mounting High-Frequency Relay – G6Z

Characteristics

Item	G6Z-1P(E), G6Z-1F(E)	G6ZU-1P(E), G6ZU-1F(E)	G6ZK-1P(E), G6ZK-1F(E)
Contact resistance (See note 2.)	100 mΩ max.	10 ms max. (approx. 3.5 ms)	10 ms max. (approx. 2.5 ms)
Operating (set) time (See note 3.)	10 ms max. (approx. 2.5 ms)	12 ms	---
Release (reset) time (See note 3.)	10 ms max. (approx. 2.5 ms)	---	---
Minimum set/reset pulse time	---	---	---
Insulation resistance (See note 4.)	100 MΩ min. (at 500 VDC)	---	---
Dielectric strength	Coil and contacts	1,000 VAC, 50/60 Hz for 1 min	1,000 VAC, 50/60 Hz for 1 min
	Coil and ground, contacts	500 VAC, 50/60 Hz for 1 min	500 VAC, 50/60 Hz for 1 min
	Contacts of same polarity	500 VAC, 50/60 Hz for 1 min	500 VAC, 50/60 Hz for 1 min
Vibration resistance	Destruction: 10 to 55 to 10 Hz, 0.75-mm single amplitude (1.5-mm double amplitude) Malfunction: 10 to 55 to 10 Hz, 0.75-mm single amplitude (1.5-mm double amplitude)		
Shock resistance	Destruction: 1,000 m/s ² Malfunction: 500 m/s ²		
Endurance	Mechanical: 1,000,000 operations min. (at 36,000 operations/hour) Electrical: 300,000 operations min. (30 VAC, 10 mA/30 VDC, 10 mA), 100,000 operations min. (900 MHz, 10 W) at a switching frequency of 1,800 operations/hour		
Ambient temperature	Operating: -40°C to 70°C (with no icing or condensation) Ambient humidity: 5% to 85%		
Weight	Approx. 2.8 g		

Note: 1. The above values are initial values.
 2. The contact resistance was measured with 10 mA at 1 VDC with a voltage drop method.
 3. Values in parentheses are actual values.
 4. The insulation resistance was measured with a 500-VDC megohmmeter applied to the same parts as those used for checking the dielectric strength.

Engineering Data



Note: 1. These tests were conducted at an ambient temperature of 23°C.
 2. The contact resistance data 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.

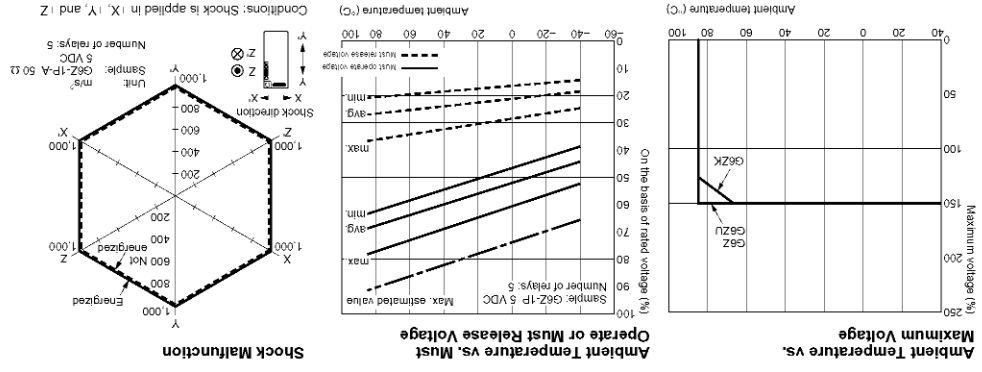
Surface-Mounting High-Frequency Relay – G6Z

Characteristics

Item	G6Z-1P(E), G6Z-1F(E)	G6ZU-1P(E), G6ZU-1F(E)	G6ZK-1P(E), G6ZK-1F(E)
Contact resistance (See note 2.)	100 mΩ max.	10 ms max. (approx. 3.5 ms)	10 ms max. (approx. 2.5 ms)
Operating (set) time (See note 3.)	10 ms max. (approx. 2.5 ms)	12 ms	---
Release (reset) time (See note 3.)	10 ms max. (approx. 2.5 ms)	---	---
Minimum set/reset pulse time	---	---	---
Insulation resistance (See note 4.)	100 MΩ min. (at 500 VDC)	---	---
Dielectric strength	Coil and contacts	1,000 VAC, 50/60 Hz for 1 min	1,000 VAC, 50/60 Hz for 1 min
	Coil and ground, contacts	500 VAC, 50/60 Hz for 1 min	500 VAC, 50/60 Hz for 1 min
	Contacts of same polarity	500 VAC, 50/60 Hz for 1 min	500 VAC, 50/60 Hz for 1 min
Vibration resistance	Destruction: 10 to 55 to 10 Hz, 0.75-mm single amplitude (1.5-mm double amplitude) Malfunction: 10 to 55 to 10 Hz, 0.75-mm single amplitude (1.5-mm double amplitude)		
Shock resistance	Destruction: 1,000 m/s ² Malfunction: 500 m/s ²		
Endurance	Mechanical: 1,000,000 operations min. (at 36,000 operations/hour) Electrical: 300,000 operations min. (30 VAC, 10 mA/30 VDC, 10 mA), 100,000 operations min. (900 MHz, 10 W) at a switching frequency of 1,800 operations/hour		
Ambient temperature	Operating: -40°C to 70°C (with no icing or condensation) Ambient humidity: 5% to 85%		
Weight	Approx. 2.8 g		

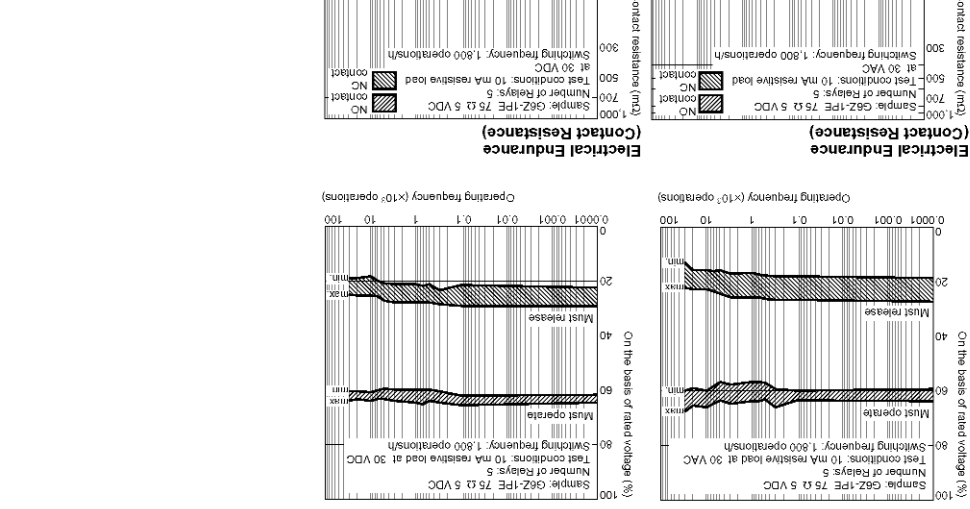
Note: 1. The above values are initial values.
 2. The contact resistance was measured with 10 mA at 1 VDC with a voltage drop method.
 3. Values in parentheses are actual values.
 4. The insulation resistance was measured with a 500-VDC megohmmeter applied to the same parts as those used for checking the dielectric strength.

Engineering Data



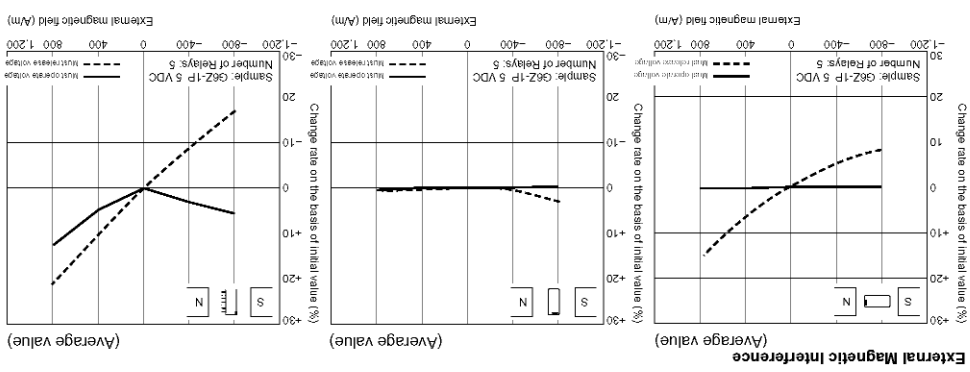
Surface-Mounting High-Frequency Relay – G6Z

Characteristics



Note: 1. These tests were conducted at an ambient temperature of 23°C.
 2. The contact resistance data are periodically measured values and operating environment, so be sure to check 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.

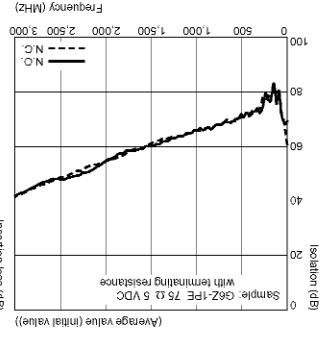
Signal Relays



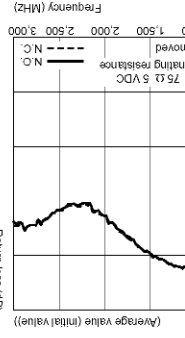
Note: 1. These tests were conducted at an ambient temperature of 23°C.
 2. The contact resistance data are periodically measured values and operating environment, so be sure to check operation under the actual operating conditions before use.

Surface-Mounting High-Frequency Relay – G6Z

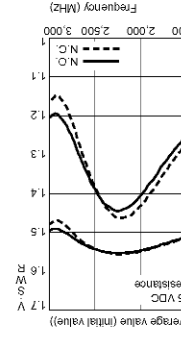
High-frequency Characteristics at 75 Ω (Isolation)



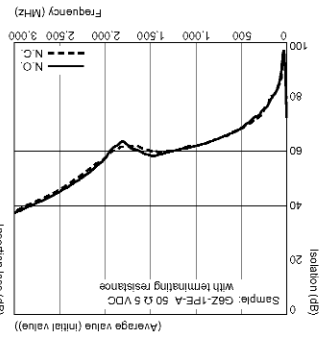
High-frequency Characteristics at 75 Ω (Insertion Loss)



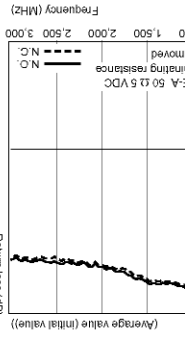
High-frequency Characteristics at 75 Ω (Return Loss, V SWR)



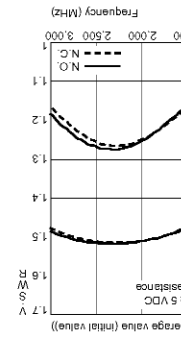
High-frequency Characteristics at 50 Ω (Isolation)



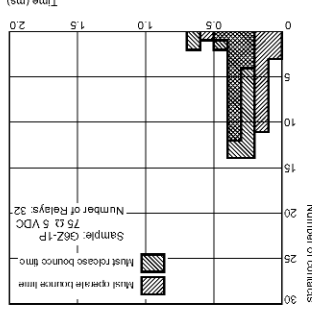
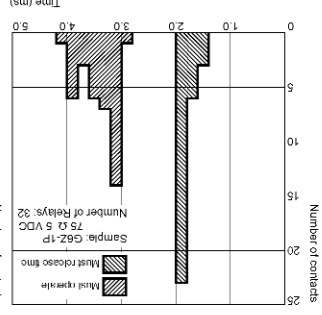
High-frequency Characteristics at 50 Ω (Insertion Loss)



High-frequency Characteristics at 50 Ω (Return Loss, V SWR)



Must Operate and Must Release Time Distribution (See note.)



Note: The tests were conducted at an ambient temperature of 23°C.

* High frequency characteristics depend on the PCB to which the relay is mounted.

* Always check these characteristics, including endurance, in the actual machine before use.

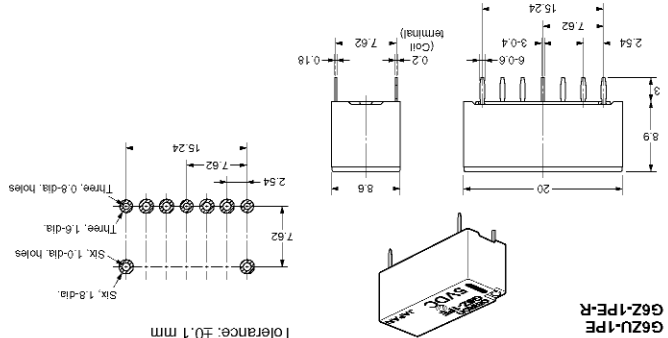
Surface-Mounting High-Frequency Relay – G6Z

Dimensions

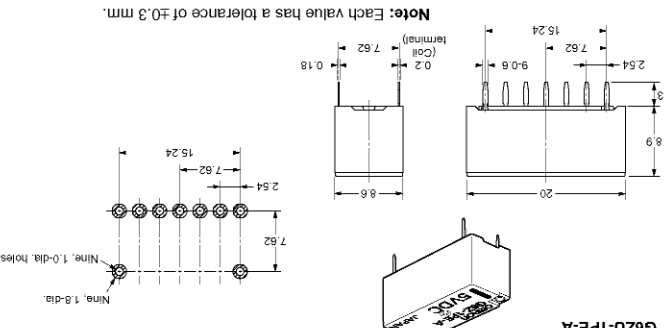
Note: All units are in millimetres unless otherwise indicated.

Models with PCB Terminals

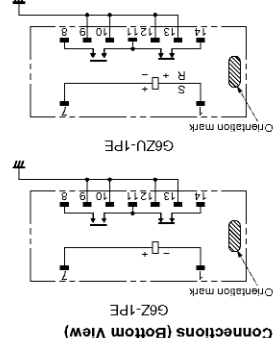
G6Z-1PE G6ZU-1PE G6Z-1PE-R



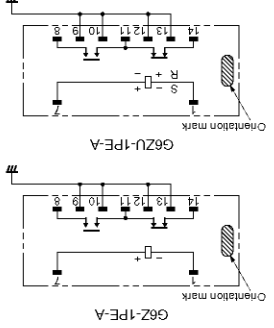
G6Z-1PE-A G6ZU-1PE-A



G6Z-1PE G6ZU-1PE G6Z-1PE-R

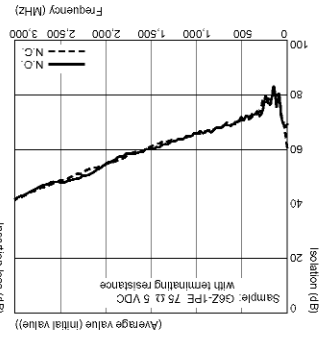


G6Z-1PE-A G6ZU-1PE-A

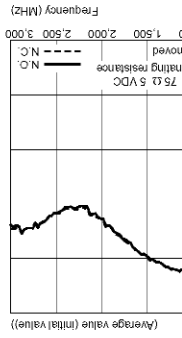


Surface-Mounting High-Frequency Relay – G6Z

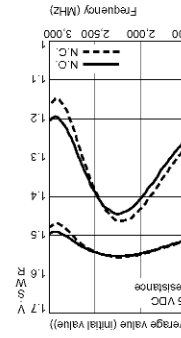
High-frequency Characteristics at 75 Ω (Isolation)



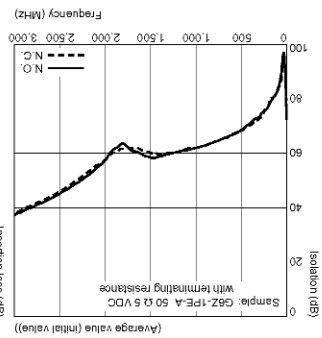
High-frequency Characteristics at 75 Ω (Insertion Loss)



High-frequency Characteristics at 75 Ω (Return Loss, V SWR)



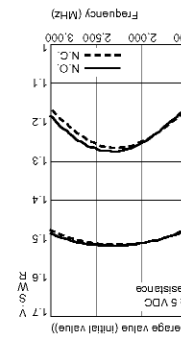
High-frequency Characteristics at 50 Ω (Isolation)



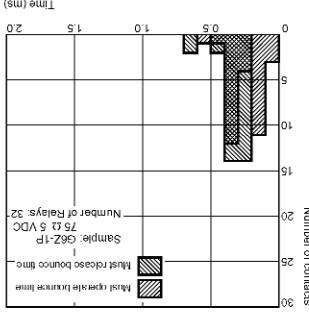
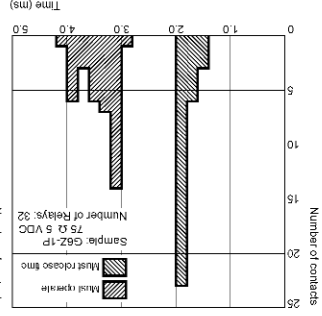
High-frequency Characteristics at 50 Ω (Insertion Loss)



High-frequency Characteristics at 50 Ω (Return Loss, V SWR)



Must Operate and Must Release Time Distribution (See note.)



Note: The tests were conducted at an ambient temperature of 23°C.

* High frequency characteristics depend on the PCB to which the relay is mounted.

* Always check these characteristics, including endurance, in the actual machine before use.

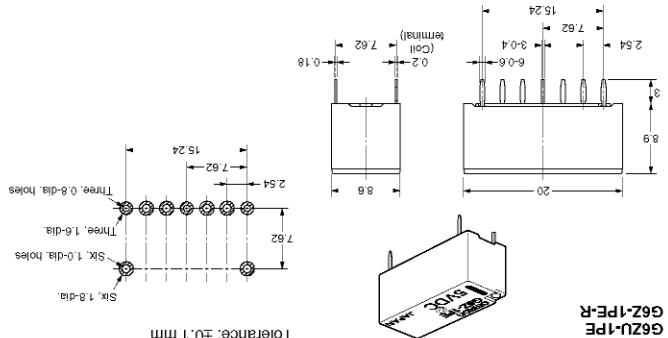
Surface-Mounting High-Frequency Relay – G6Z

Dimensions

Note: All units are in millimetres unless otherwise indicated.

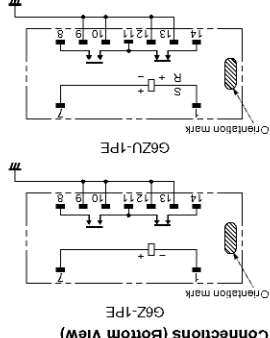
Models with PCB Terminals

G6Z-1PE G6ZU-1PE G6Z-1PE-R

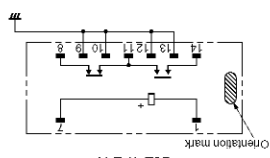


Note: Each value has a tolerance of ±0.3 mm.

G6Z-1PE G6ZU-1PE G6Z-1PE-R

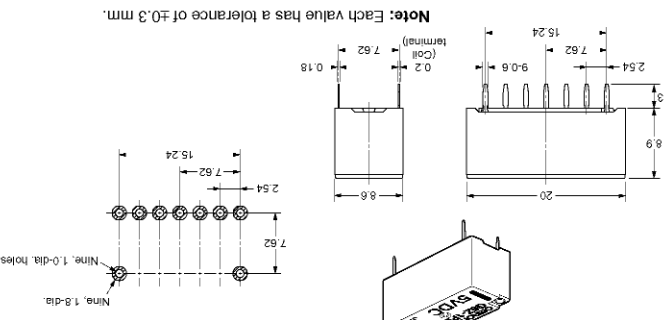


Terminal Arrangement/Internal Connections (Bottom View)

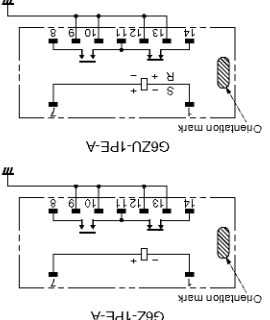


Terminal Arrangement/Internal Connections (Bottom View)

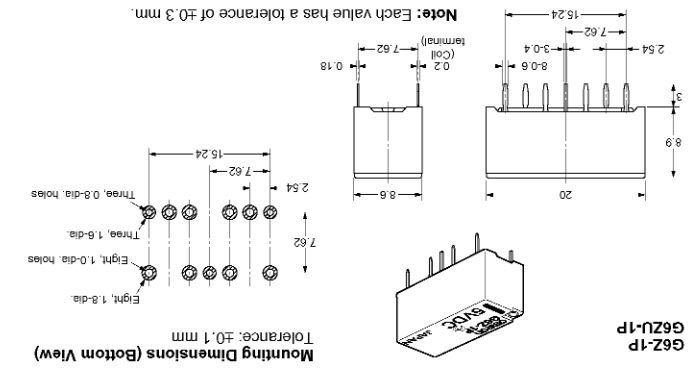
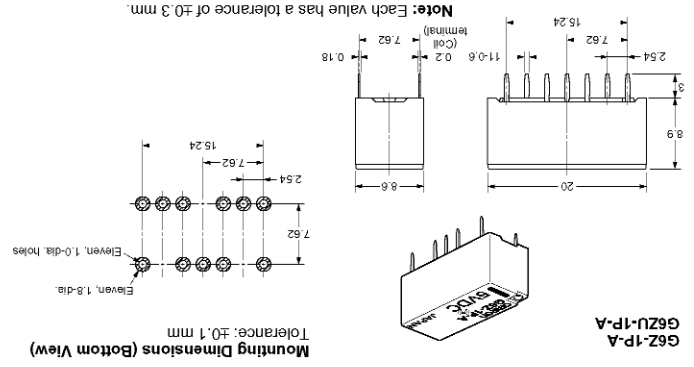
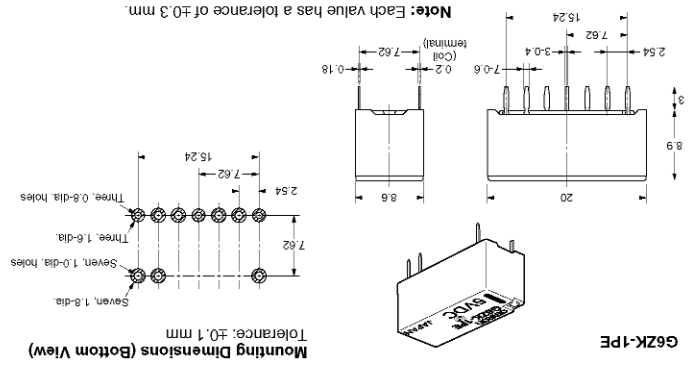
Mounting Dimensions (Bottom View) Tolerance: ±0.1 mm



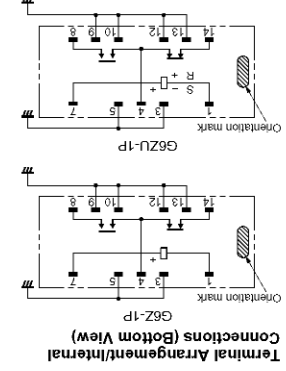
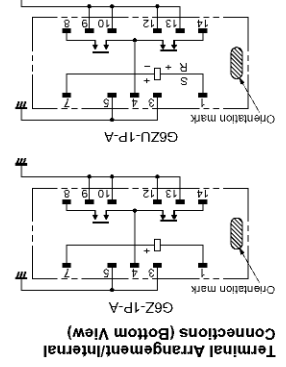
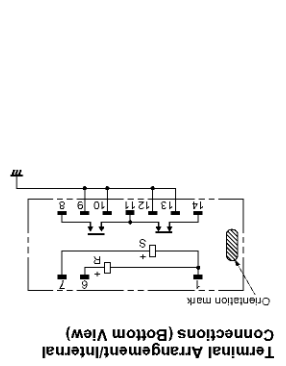
Note: Each value has a tolerance of ±0.3 mm.



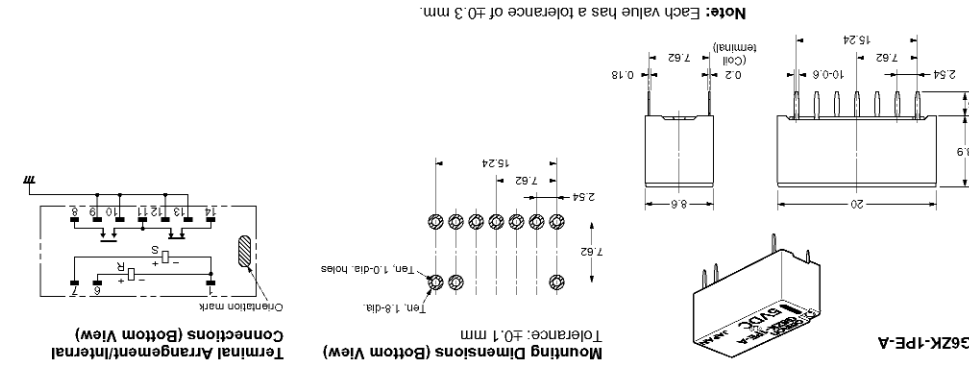
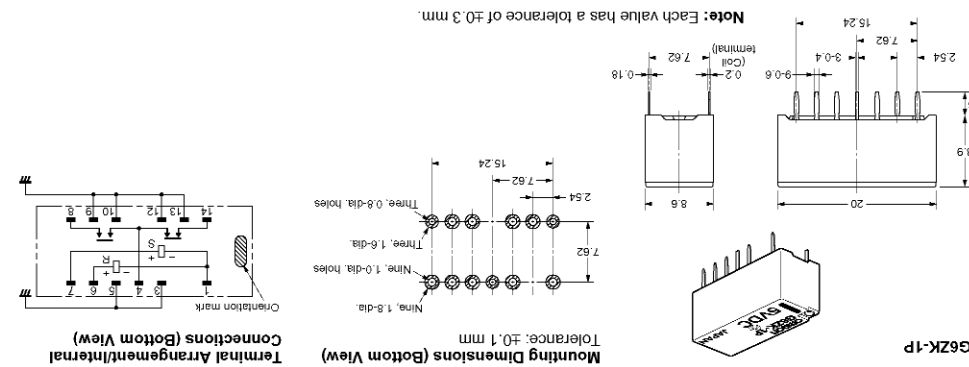
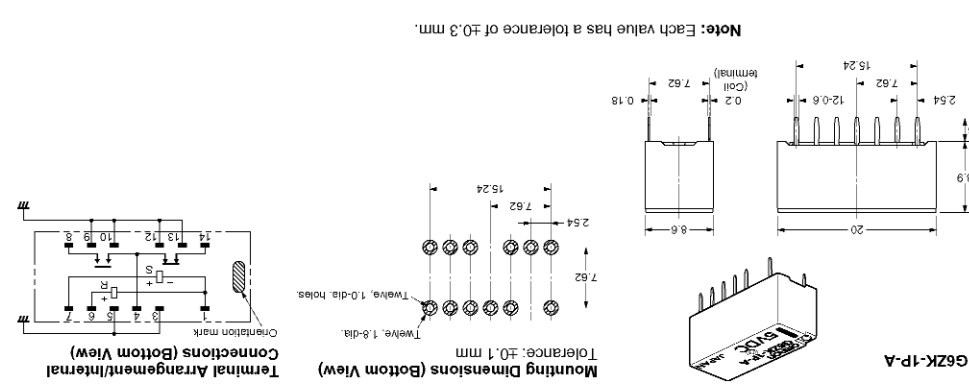
Terminal Arrangement/Internal Connections (Bottom View)



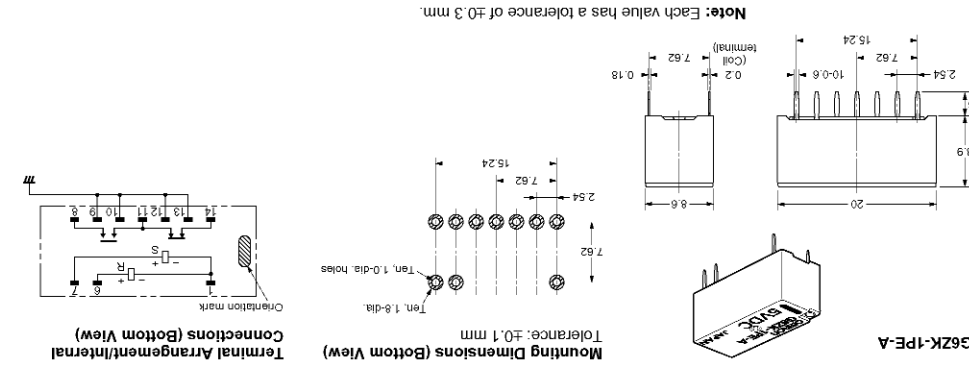
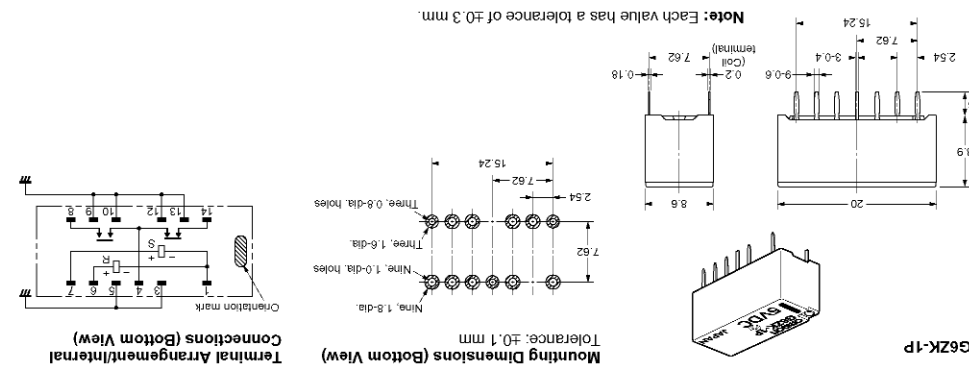
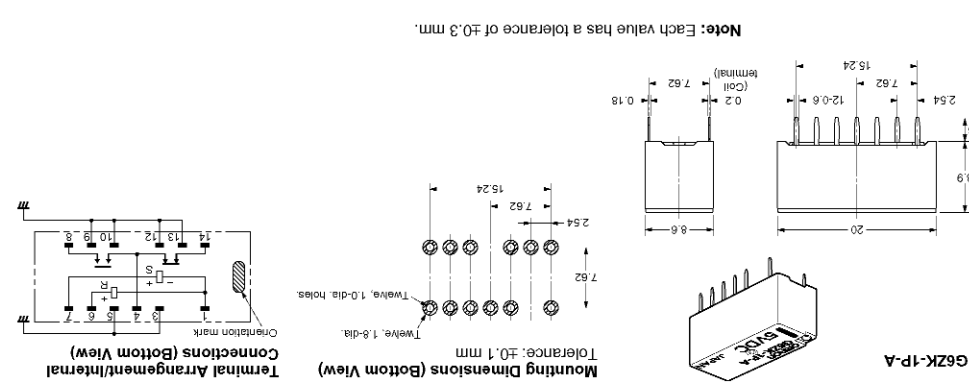
Surface-Mounting High-Frequency Relay – G6Z



Surface-Mounting High-Frequency Relay – G6Z



Surface-Mounting High-Frequency Relay – G6Z

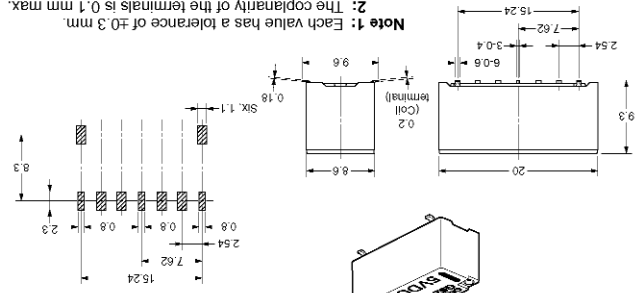


Surface-Mounting High-Frequency Relay – G6Z

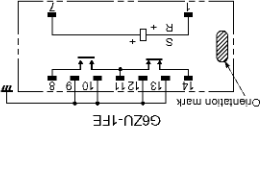
Surface-Mounting High-Frequency Relay – G6Z

Models with Surface-mounting Terminals

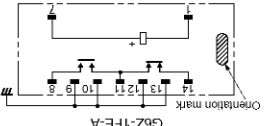
G6Z-1FE
G6Z-1FE-A



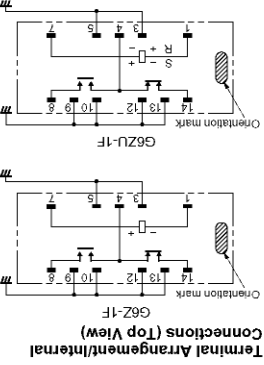
G6Z-1FE
G6Z-1FE



G6Z-1FE-A
G6Z-1FE-A

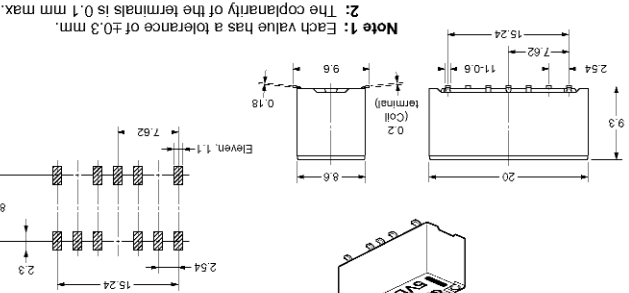


G6ZU-1FE-A
G6ZU-1FE-A

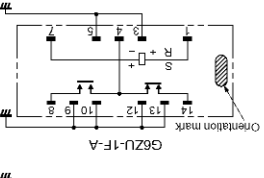


Surface-Mounting High-Frequency Relay – G6Z

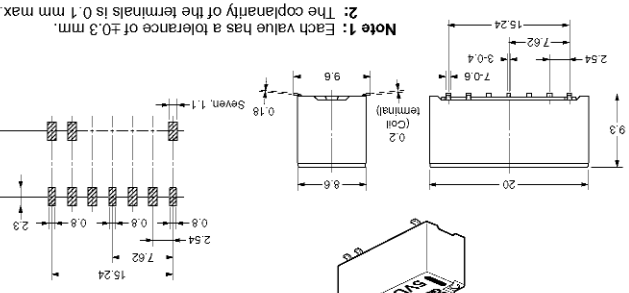
G6Z-1FE
G6ZU-1FE



G6Z-1FE-A
G6ZU-1FE-A



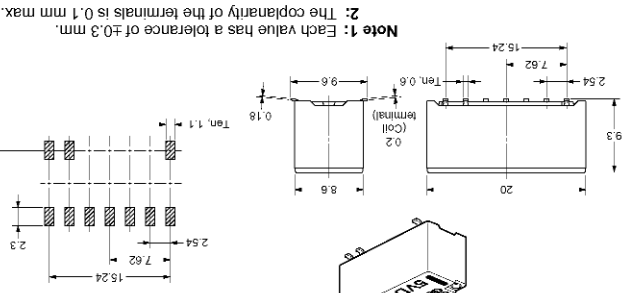
G6ZK-1FE
G6ZK-1FE



G6ZK-1FE-A
G6ZK-1FE-A



G6ZK-1FE-A
G6ZK-1FE-A

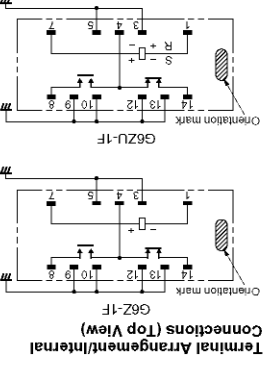
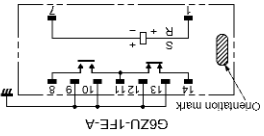
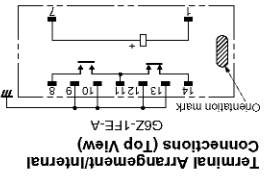
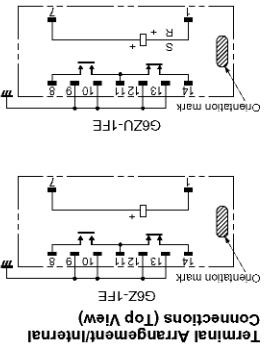
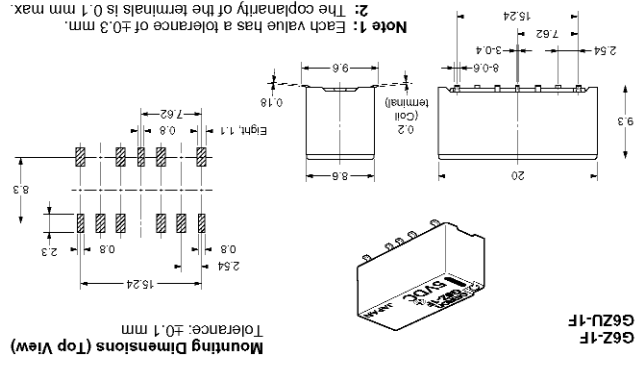
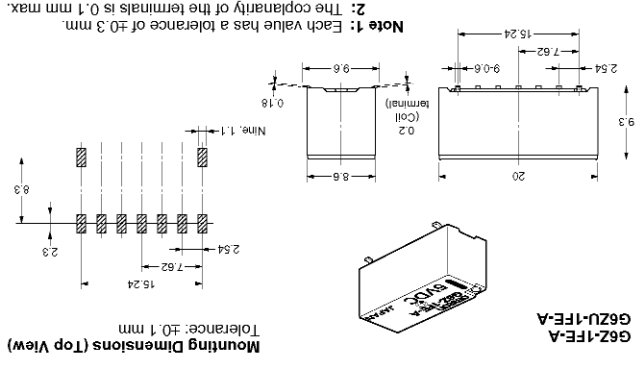
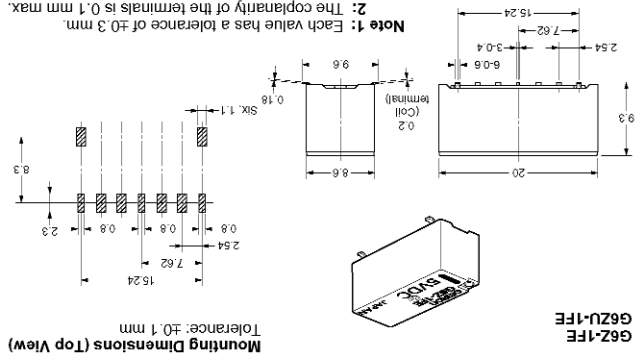


G6ZU-1FE
G6ZU-1FE



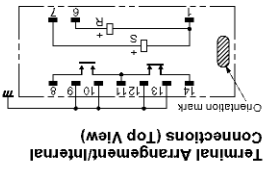
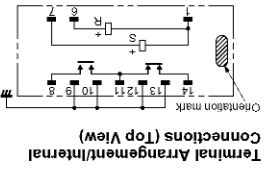
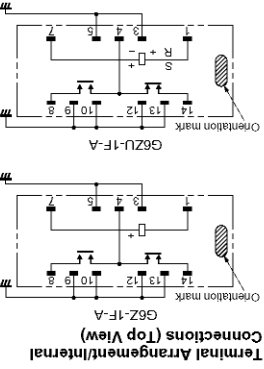
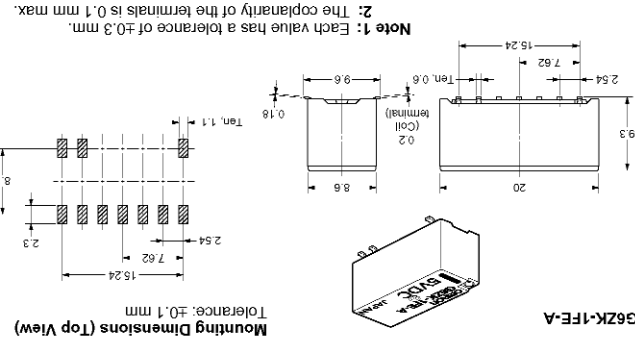
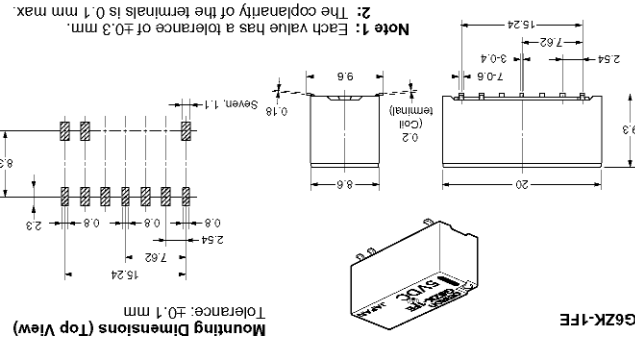
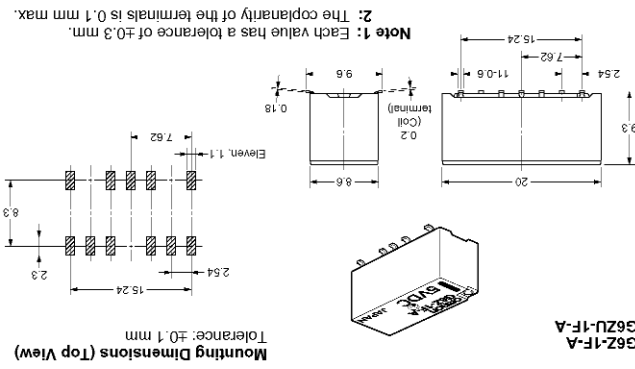
Surface-Mounting High-Frequency Relay – G6Z

Models with Surface-mounting Terminals



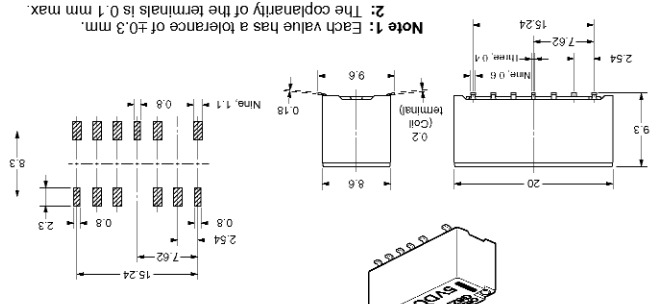
Surface-Mounting High-Frequency Relay – G6Z

Surface-Mounting High-Frequency Relay – G6Z

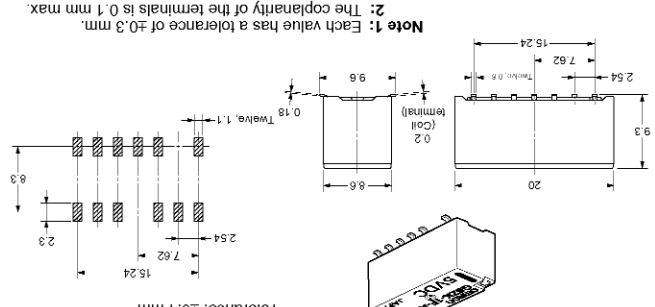


Surface-Mounting High-Frequency Relay – G6Z

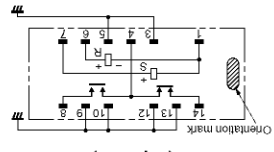
G6ZK-1F
Mounting Dimensions (Top View)



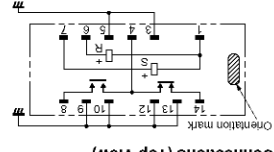
G6ZK-1F-A
Mounting Dimensions (Top View)



Terminal Arrangement/Internal Connections (Top View)



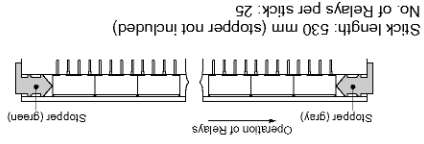
Terminal Arrangement/Internal Connections (Top View)



Surface-Mounting High-Frequency Relay – G6Z

Stick Packing and Tape Packing

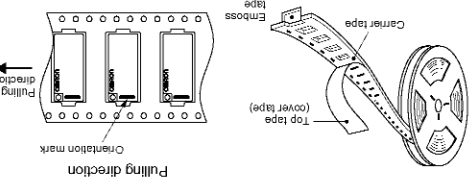
Relays in stick packing are arranged so that the orientation mark of each Relay is on the left side. Be sure not to make mistakes in Relay orientation when mounting the Relay to the PCB.



Tape Packing (Surface-mounting Terminal Models)

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

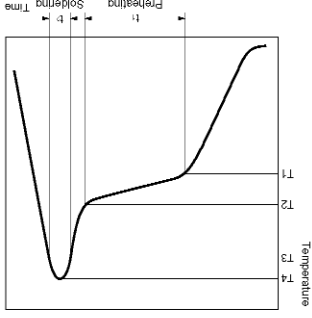
Relays per Reel: 300
Direction of Relay Insertion



Recommended Soldering Method

Temperature Conditions for IRS Method

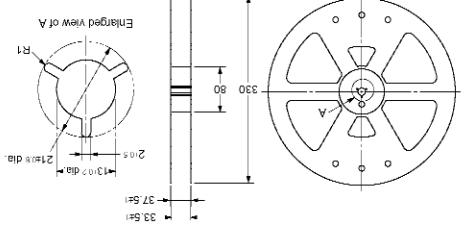
When using reflow soldering, ensure that the Relay terminals and the top of the case stay below the following curve. Check that these conditions are actually satisfied before soldering the terminals.



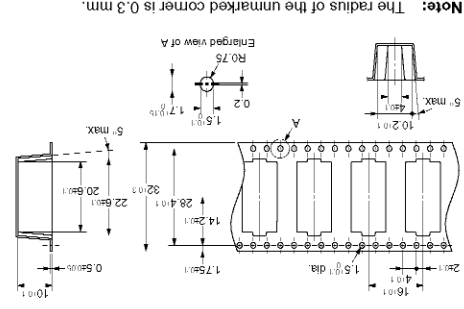
Measured part	Preheating (T1, T2, T3)	Soldering (T3, T2)	Maximum peak (T4)
Terminals	150 → 180°C, 120 s max.	230°C min, 30 s max.	250°C max.
Top of case	---	---	255°C max.

Surface-Mounting High-Frequency Relay – G6Z

Reel Dimensions

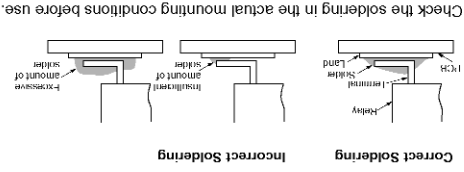


Carrier Tape Dimensions



Signal Relays

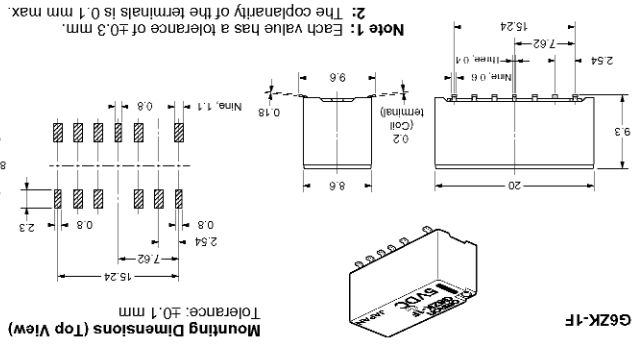
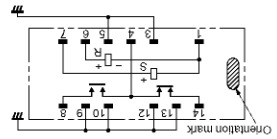
Do not quench the terminals after mounting. Clean the Relay using alcohol or water no hotter than 40°C max. The thickness of cream solder to be applied should be between 150 and 200 μm on OMRON's recommended PCB pattern.



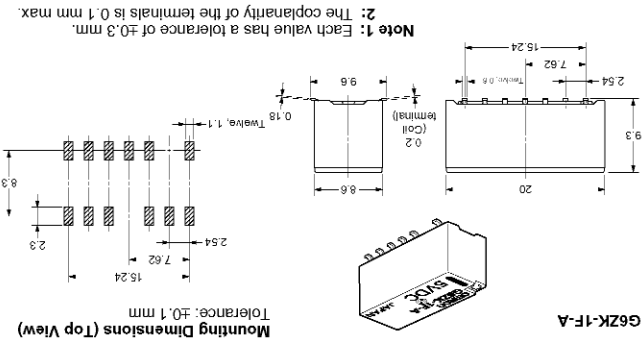
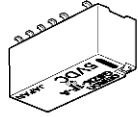
Check the soldering in the actual mounting conditions before use.

Surface-Mounting High-Frequency Relay – G6Z

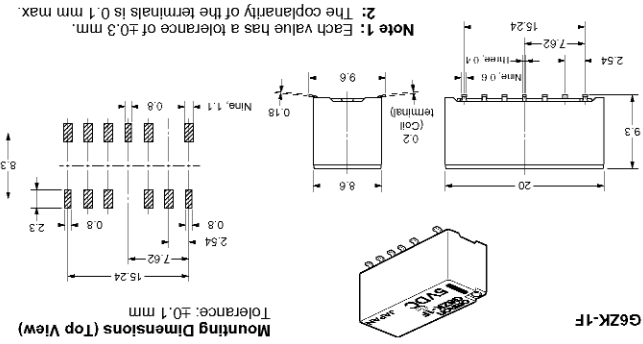
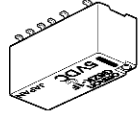
Terminal Arrangement/Internal Connections (Top View)



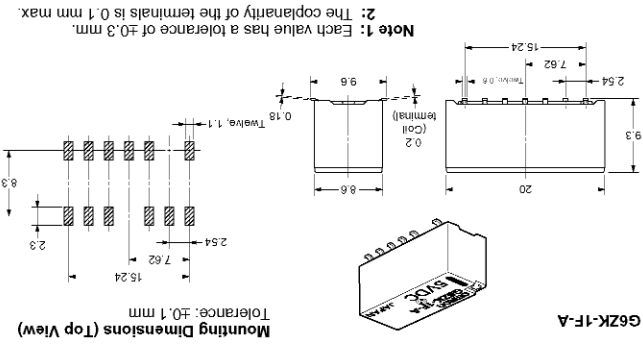
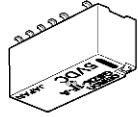
G6ZK-1F-A



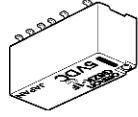
G6ZK-1F



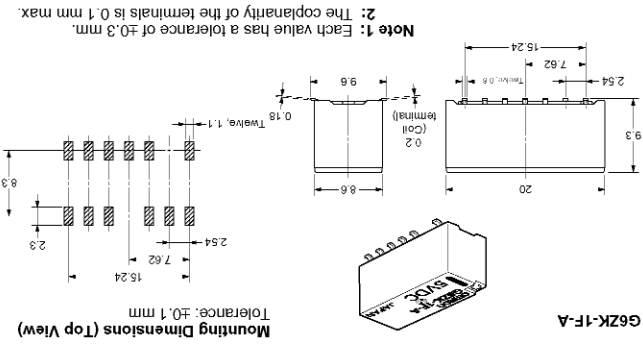
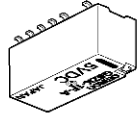
G6ZK-1F-A



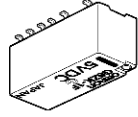
G6ZK-1F



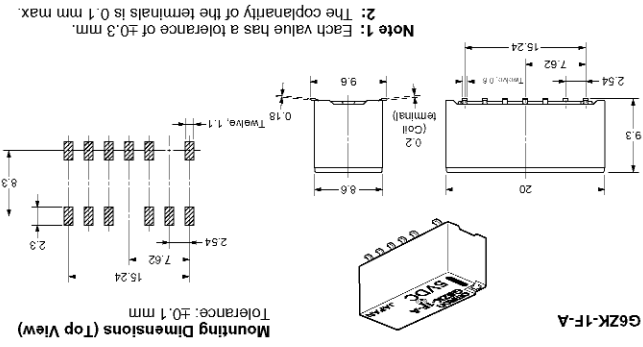
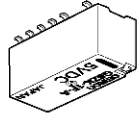
G6ZK-1F-A



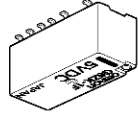
G6ZK-1F



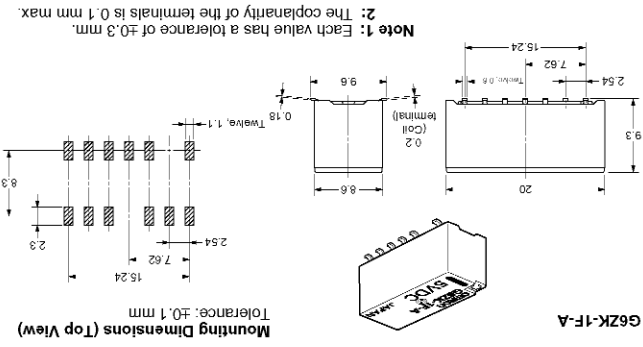
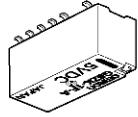
G6ZK-1F-A



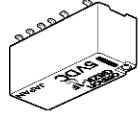
G6ZK-1F



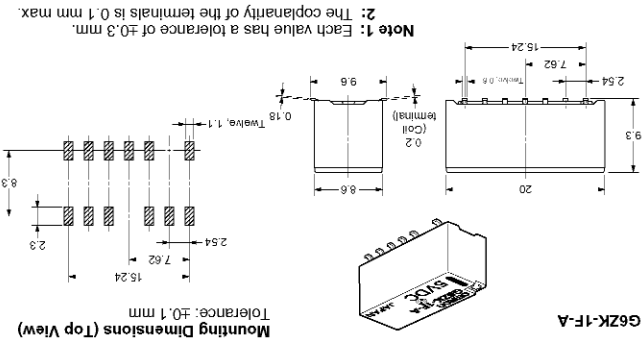
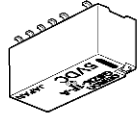
G6ZK-1F-A



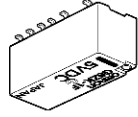
G6ZK-1F



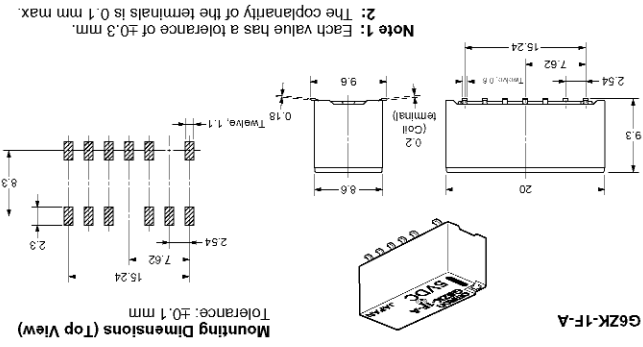
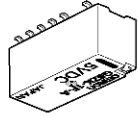
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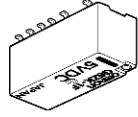
G6ZK-1F



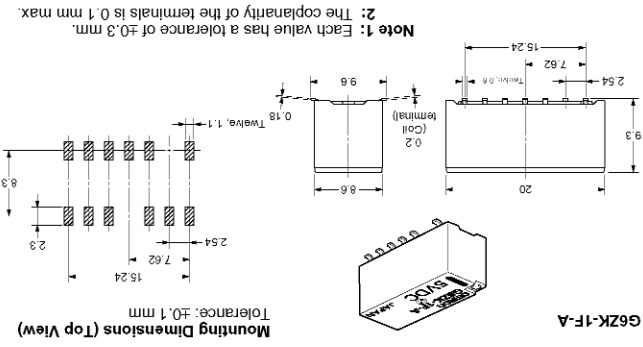
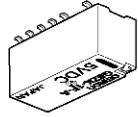
G6ZK-1F-A



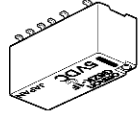
G6ZK-1F



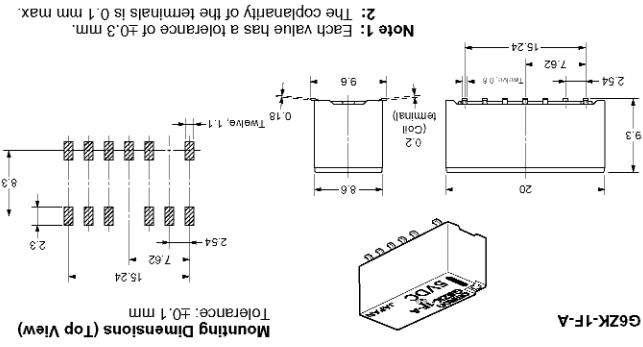
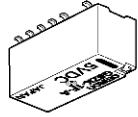
G6ZK-1F-A



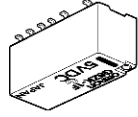
G6ZK-1F



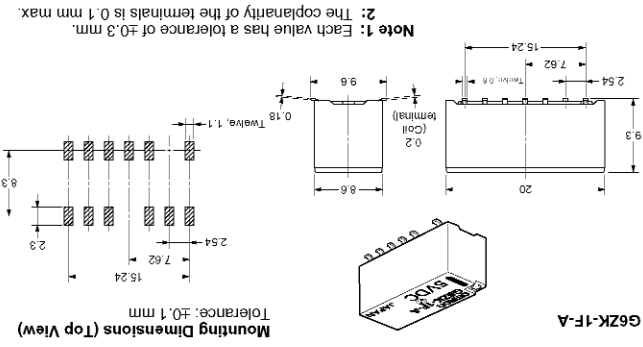
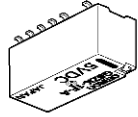
G6ZK-1F-A



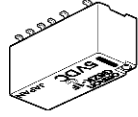
G6ZK-1F



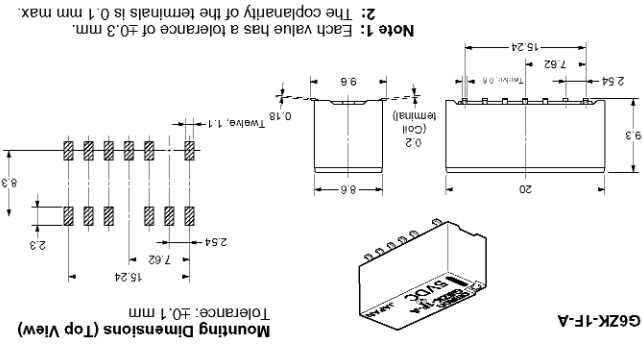
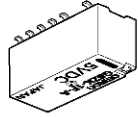
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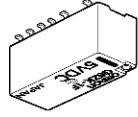
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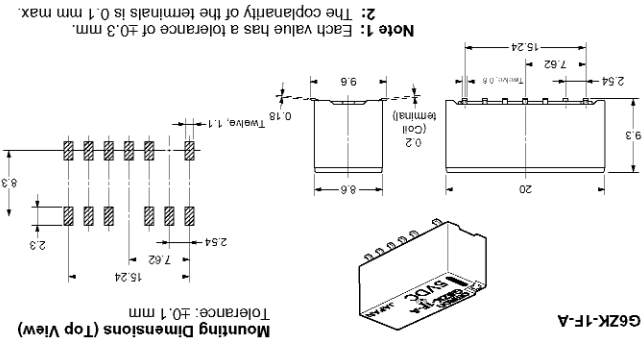
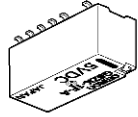
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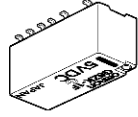
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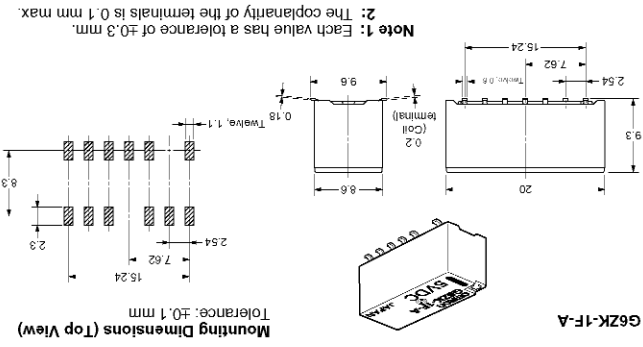
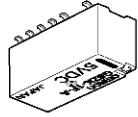
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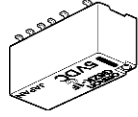
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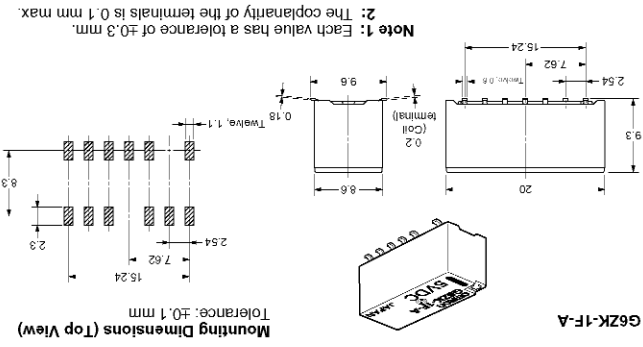
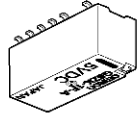
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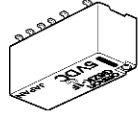
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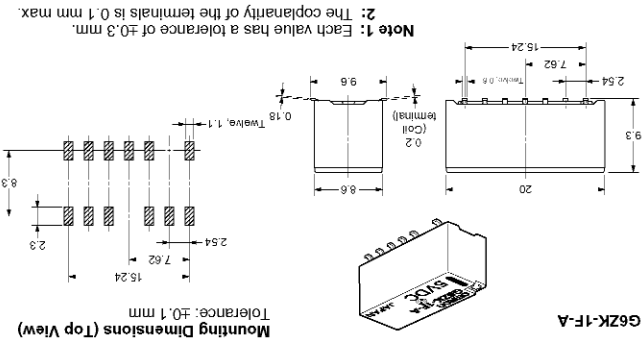
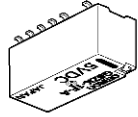
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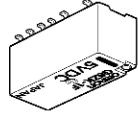
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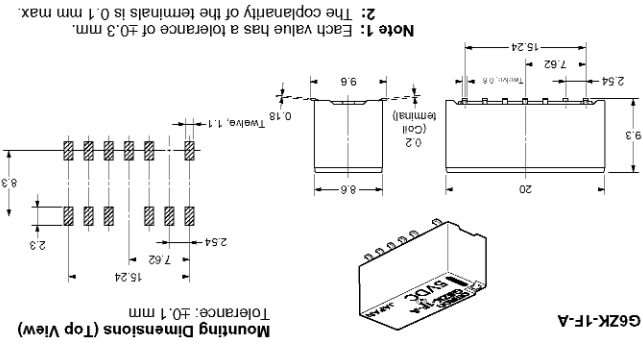
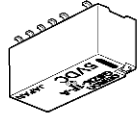
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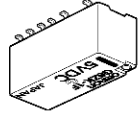
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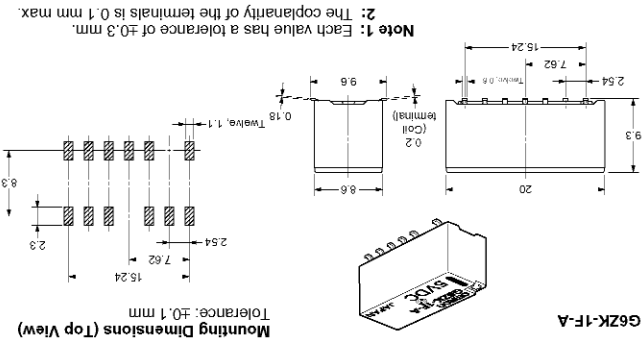
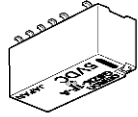
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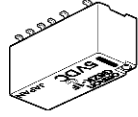
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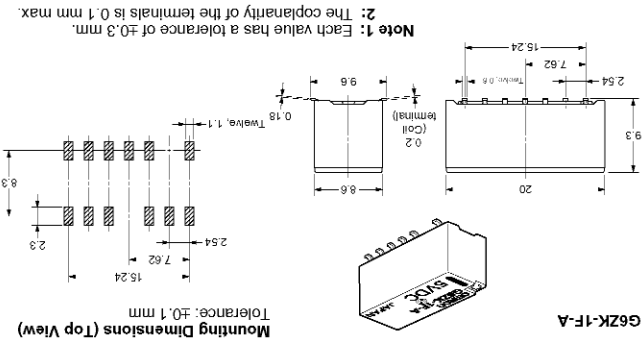
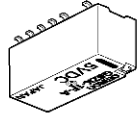
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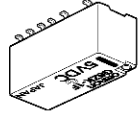
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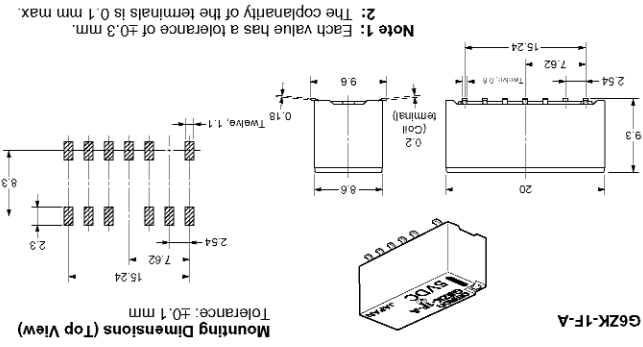
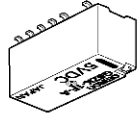
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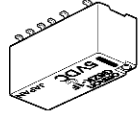
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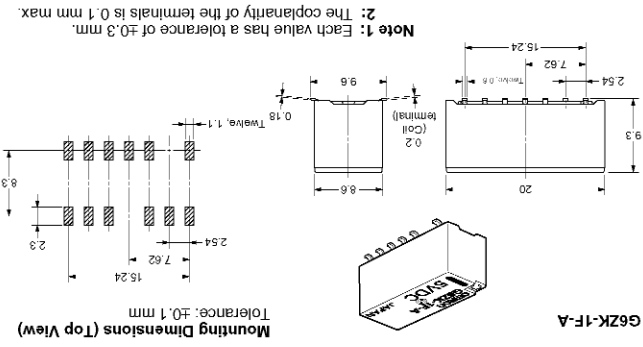
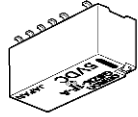
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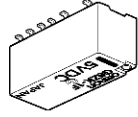
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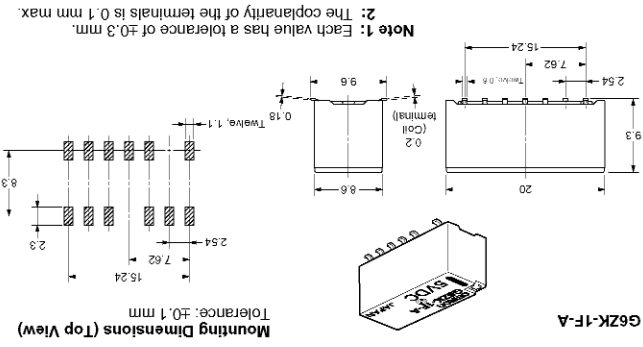
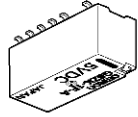
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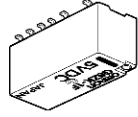
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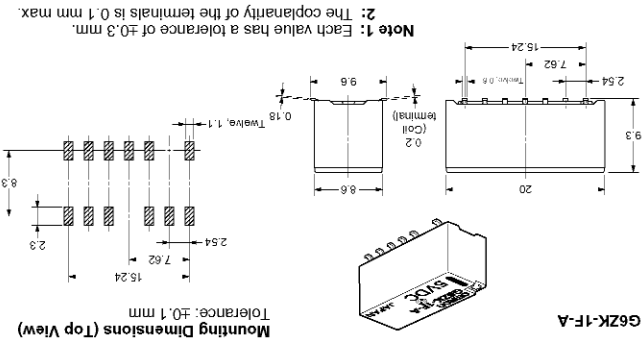
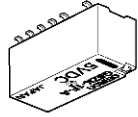
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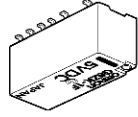
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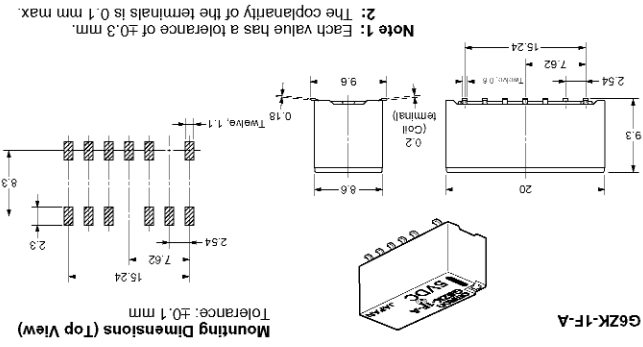
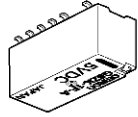
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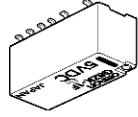
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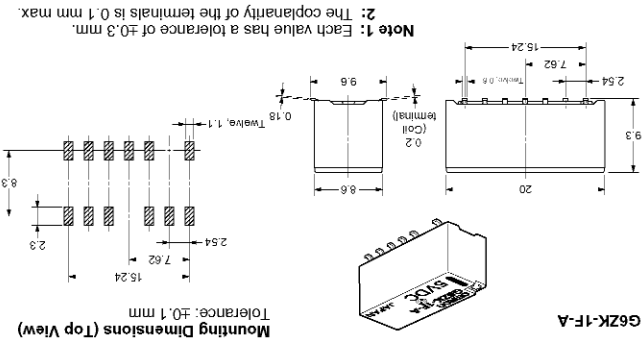
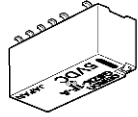
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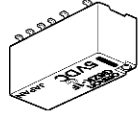
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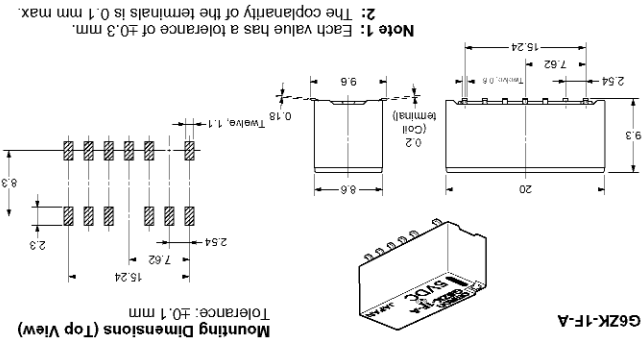
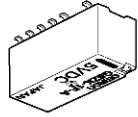
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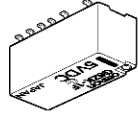
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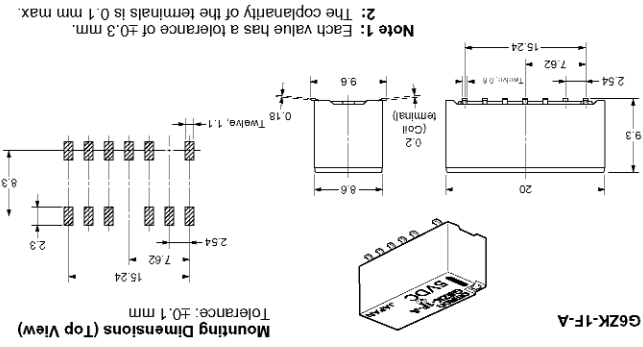
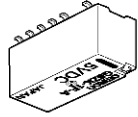
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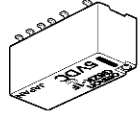
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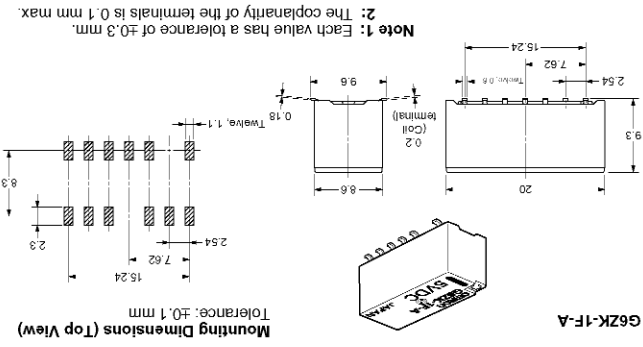
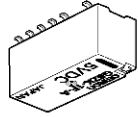
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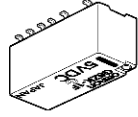
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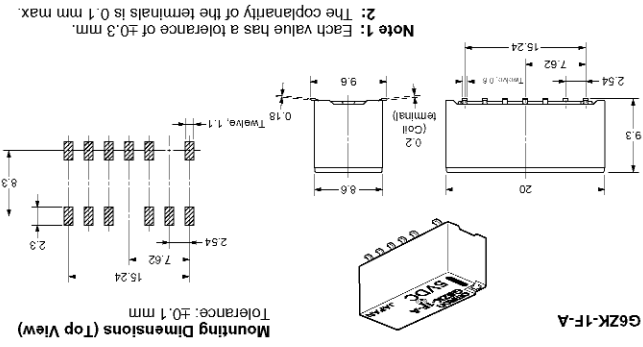
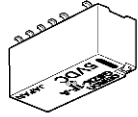
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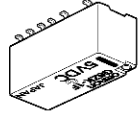
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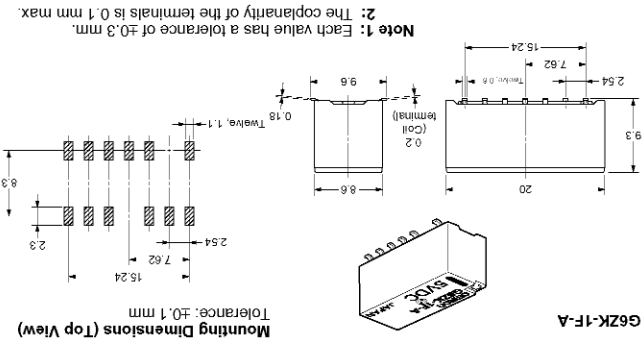
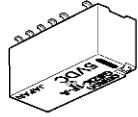
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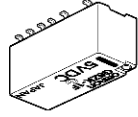
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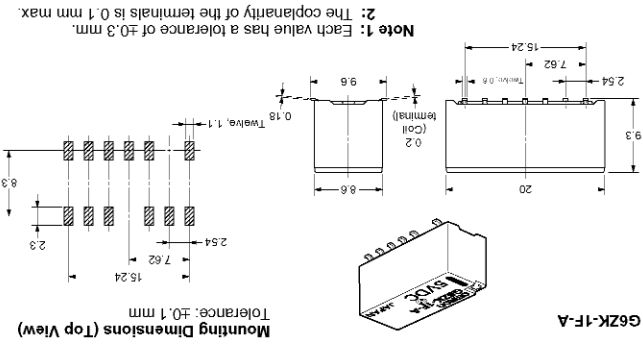
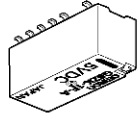
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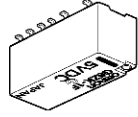
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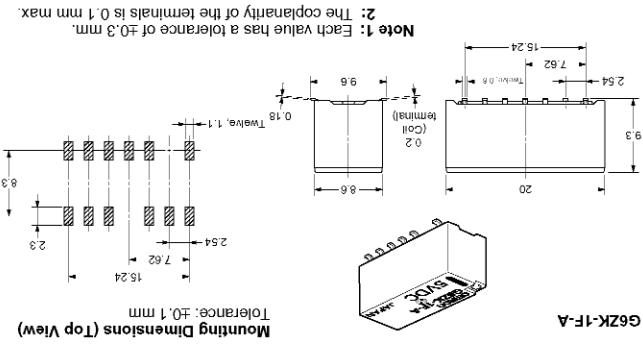
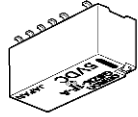
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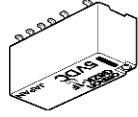
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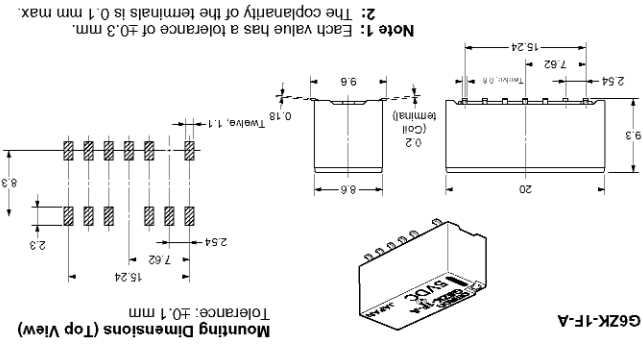
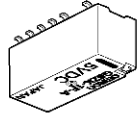
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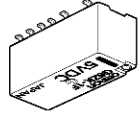
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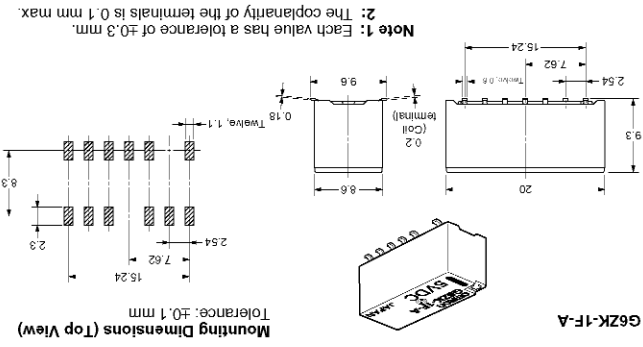
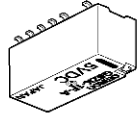
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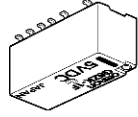
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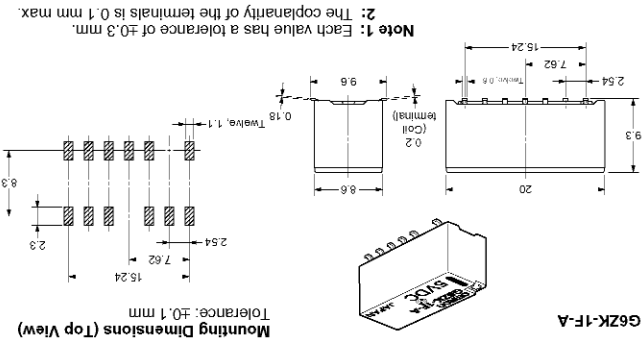
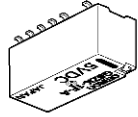
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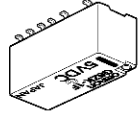
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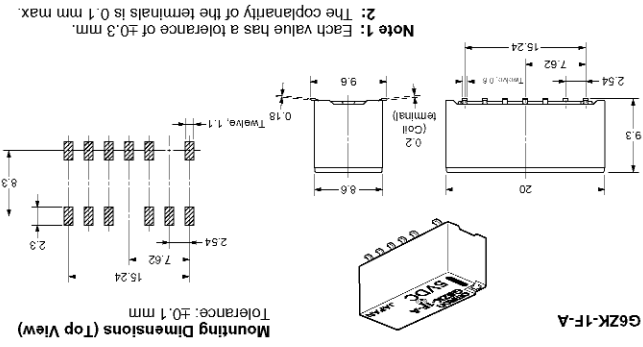
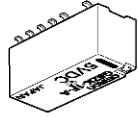
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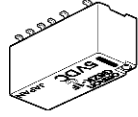
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G6ZK-1F



G6ZK-1F-A

Surface-Mounting High-Frequency Relay – G6Z

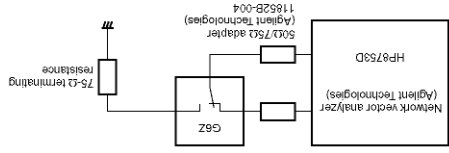
Safety Precautions

Please observe the following precautions to prevent failure to operate, malfunction, or undesirable effect on product performance.

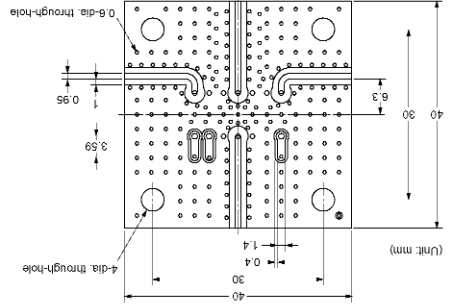
■ Precautions for Correct Use

High-frequency Characteristics Measurement Method and Measurement Substrate
High-frequency characteristics for the G6Z are measured in the way shown below. Consult your OMRON representative for details on 50-Ω models.

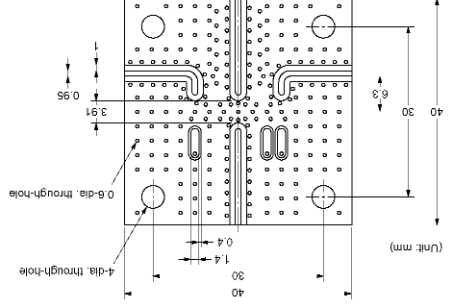
Measurement Method for 75-Ω Models



Through-hole Substrate (75-Ω Models, E-shape or Y-shape)



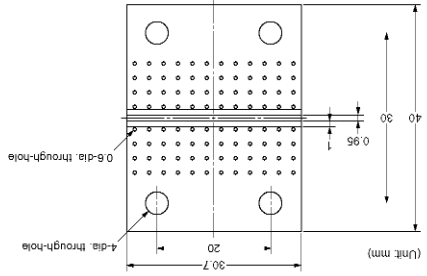
SMD-type Substrate (75-Ω Models, E-shape or Y-shape)



Surface-Mounting High-Frequency Relay – G6Z

Substrate for High-Frequency Characteristic Compensation

(75-Ω Models, E-shape or Y-shape)



Substrate Types
Material: FR-4 glass epoxy (glass cloth impregnated with epoxy resin and copper laminated to its outer surface)
Thickness: 1.6 mm
Thickness of copper plating: 18 μm

Note: 1. The compensation substrate is used when measuring the Relay's insertion loss. The insertion loss is obtained by subtracting the measured value for the compensation substrate from the measured value with the Relay mounted to the high-frequency measurement substrate.
2. For convenience, the diagrams of the high-frequency measurement substrate with an E-shape terminal structure and to models with a Y-shape terminal structure.
3. Be sure to mount a standoff tightly to the through-hole elements with a Y-shape terminal structure.
4. Use measuring devices, connectors, and substrates that are appropriate for 50 Ω and 75 Ω respectively.
5. Ensure that there is no pattern under the Relay. Otherwise, the impedance may be adversely affected and the Relay may not be able to attain its full characteristics.

Handling

Do not use the Relay if it has been dropped. Dropping the Relay may adversely affect its functionality.
Protect the Relay from direct sunlight and keep the Relay under normal temperature, humidity, and pressure.

Flow Soldering

Solder: JIS Z3282, H63A
Soldering temperature: Approx. 250°C (260°C if the DWS method is used)
Soldering time: Approx. 5 s max. (approx. 2 s for the first time and approx. 3 s for the second time if the DWS method is used)
Be sure to make a molten solder level adjustment so that the solder will not overflow on the PCB.

Surface-Mounting High-Frequency Relay – G6Z

Claw Securing Force During Automatic Mounting

Make sure that the vibration or shock that is generated from other devices, such as Relays, on the same panel or substrate and imposed on the Latching Relay does not exceed the rated value. 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.



Secure the claws to the shaded area.
Do not attach them to the dotted area or to only part of the Relay.

Latching Relay Mounting

Make sure that the vibration or shock that is generated from other devices, such as Relays, on the same panel or substrate and imposed on the Latching Relay does not exceed the rated value. Otherwise the setback status of the Latching Relay may be changed. The Latching Relay is reset before shipping. If excessive vibration or shock is imposed, however, the Latching Relay may be set accidentally. Be sure to apply a reset signal before use.

Coating

Do not use silicone coating to coat the Relay when it is mounted to the PCB. Do not wash the PCB after the Relay is mounted using detergent containing silicone. Otherwise, the detergent may remain on the surface of the Relay.

Signal Relays

Surface-Mounting High-Frequency Relay – G6Z

Safety Precautions

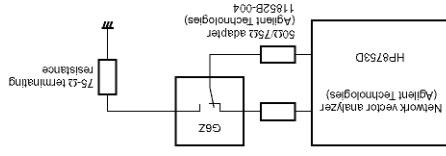
■ Precautions for Correct Use

Please observe the following precautions to prevent failure to operate, malfunction, or undesirable effect on product performance.

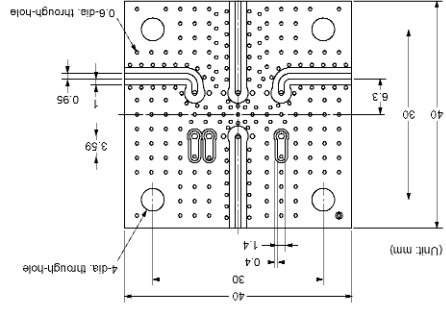
High-Frequency Characteristics Measurement Method and Measurement Substrate

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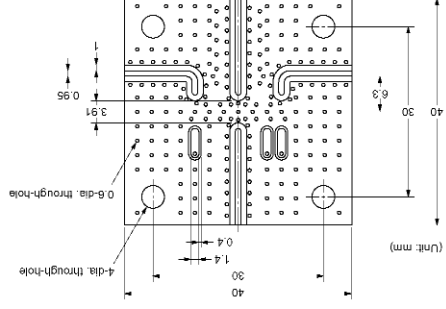
Measurement Method for 75-Ω Models



Through-hole Substrate (75-Ω Models, E-shape or Y-shape)



SMD-type Substrate (75-Ω Models, E-shape or Y-shape)



Surface-Mounting High-Frequency Relay – G6Z

Safety Precautions

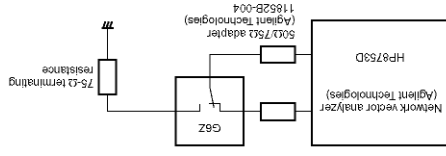
■ Precautions for Correct Use

Please observe the following precautions to prevent failure to operate, malfunction, or undesirable effect on product performance.

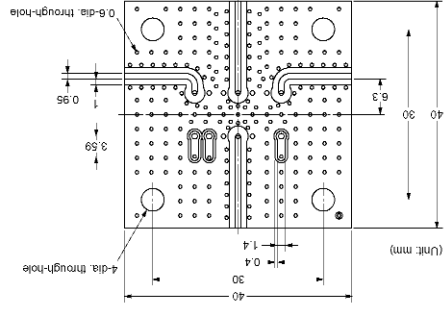
High-Frequency Characteristics Measurement Method and Measurement Substrate

High-frequency characteristics for the G6Z are measured in the way shown below. Consult your OMRON representative for details on 50-Ω models.

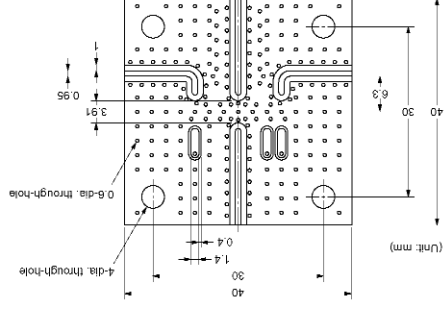
Measurement Method for 75-Ω Models



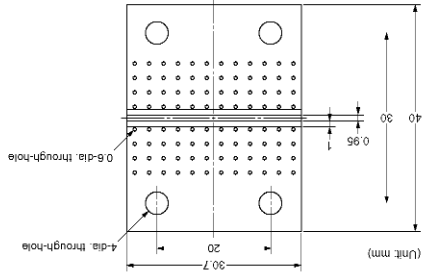
Through-hole Substrate (75-Ω Models, E-shape or Y-shape)



SMD-type Substrate (75-Ω Models, E-shape or Y-shape)



Substrate for High-Frequency Characteristic Compensation (75-Ω Models, E-shape or Y-shape)



Material: FR-4 glass epoxy (glass cloth impregnated with epoxy resin and copper laminated to its outer surface)
Thickness: 1.6 mm
Thickness of copper plating: 18 μm

Substrate Types

- Note:** 1. The compensation substrate is used when measuring the Relay's insertion loss. The insertion loss is obtained by subtracting the measured value for the compensation substrate from the measured value with the Relay mounted to the high-frequency measurement substrate.
- For convenience, the diagrams of the high-frequency measurement substrate with an E-shape terminal structure and to models with a Y-shape terminal structure.
- Be sure to mount a standoff tightly to the through-hole elements with a Y-shape terminal structure.
- Use measuring devices, connectors, and substrates that are appropriate for 50 Ω and 75 Ω respectively.
- Ensure that there is no pattern under the Relay. Otherwise, the impedance may be adversely affected and the Relay may not be able to attain its full characteristics.

Handling

Do not use the Relay if it has been dropped. Dropping the Relay may adversely affect its functionality. Protect the Relay from direct sunlight and keep the Relay under normal temperature, humidity, and pressure.

Flow Soldering

Solder: JIS Z3282, H63A
Soldering temperature: Approx. 250°C (260°C if the DWS method is used)
Soldering time: Approx. 5 s max. (approx. 2 s for the first time and approx. 3 s for the second time if the DWS method is used)
Be sure to make a molten solder level adjustment so that the solder will not overflow on the PCB.

Surface-Mounting High-Frequency Relay – G6Z

Claw Securing Force During Automatic Mounting

Make sure that the vibration or shock that is generated from other devices, such as Relays, on the same panel or substrate and imposed on the Latching Relay does not exceed the rated value. 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.



Secure the claws to the shaded area. Do not attach them to the other area or to only part of the Relay.

Coating

Do not use silicone coating to coat the Relay when it is mounted to the PCB. Do not wash the PCB after the Relay is mounted using detergent containing silicone. Otherwise, the detergent may remain on the surface of the Relay.

Latching Relay Mounting

Make sure that the vibration or shock that is generated from other devices, such as Relays, on the same panel or substrate and imposed on the Latching Relay does not exceed the rated value. Otherwise the set/reset status of the Latching Relay may be changed. The Latching Relay is reset before shipping. If excessive vibration or shock is imposed, however, the Latching Relay may be set accidentally. Be sure to apply a reset signal before use.

Signal Relays

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