

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 V.SWR of 1.2max.

■ High-frequency Characteristics

Item		Frequency	900 MHz				2.6 GHz			
			TH		SMD		TH		SMD	
			E-shape	Y-shape	E-shape	Y-shape	E-shape	Y-shape	E-shape	Y-shape
Isolation	75 Ω	65 dB min.		60 dB min.		35 dB min.	45 dB min.	30 dB min.	40 dB min.	
	50 Ω	60 dB min.								
Insertion loss (not including substrate loss)	75 Ω	0.2 dB max.				0.5 dB max.				
	50 Ω	0.1 dB max.				0.3 dB max.				
V.SWR	75 Ω	1.2 max.				1.5 max.				
	50 Ω	1.1 max.				1.3 max.				
Return loss	75 Ω	20.8 dB max.				14.0 dB max.				
	50 Ω	26.4 dB max.				17.7 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 V.SWR 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.

■ Coil Ratings

Single-side Stable Models

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

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

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

Raged 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).