

G6Z 1GHz Band Radio Frequency Relay

Preliminary Specifications

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Omron Corporation

The all mighty RF relay for 1 GHz Band application

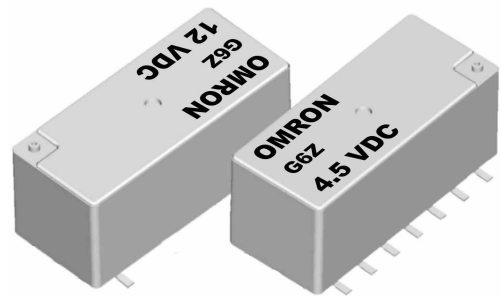
The size is the smallest in 1 GHz Band class RF relay.

Keep high performance up to 2.6 GHz

High sensitivity only 360 mW in 2 coil latching type.

Various types for best PCB design.

- Characteristic impedance 75 ohm and 50 ohm
- Terminal arrangement E type and Y type
- Contact configuration Normal type and a,b reversed
- Coil Single stable and 1,2 coil latching



COIL DATA

Items		Rated Current (mA)	Coil (Ω)	Operate Voltage (V)	Release Voltage (V)	Power Cons. (mW)
Single Stable	4.5	44.5	101	80% max.	10% min.	200
	9	22.2	405			
	12	16.7	720			
1 Coil Latching	4.5	44.5	101	80% max.	80% max.	200
	9	22.2	405			
	12	16.7	720			
2 Coil Latching	4.5	80	56.3	80% max.	80% max.	360
	9	40	225			
	12	30	400			

CHARACTERISTICS

Contact Resistance	100 mohm max.
Operate Time	10 ms max.
Release Time	10 ms max.
Isolation Resistance	100 Mohm min.
Dielectric strength	Coil-Contact 1000 VAC
	Same pole 500 VAC
	Contact-GND 500 VAC
Vibration resistance	Destruction
	10-55Hz double amp. 1.5mm
	Malfunction
Shock resistance	Destruction 1000 m/s ²
	Malfunction 500 m/s ²
Mechanical endurance	1,000,000 operations
Electrical endurance	300,000 operations min.
	30VAC 0.01A
	30VDC 0.01A
Ambient temperature	-40 degC - 70 degC
Weight	Approx. 5g

HIGH FREQUENCY CHARACTERISTICS

Items	Frequency	900 MHz	2.6 GHz
Isolation		65dB min.	30dB min.
Insertion Loss		0.2dB max.	0.5dB max.
VSWR		1.2 max.	1.5 max.
Maximum power		10W	

DIMENSIONS

SMT and Through hole	Outline dimensions in mm	E type terminal arrangement	Y type terminal arrangement
		<p>Single stable</p> <p>1 coil latching</p> <p>2 coil latching</p>	<p>Single stable</p> <p>1 coil latching</p> <p>2 coil latching</p>