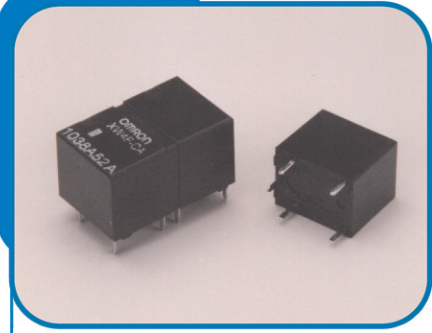
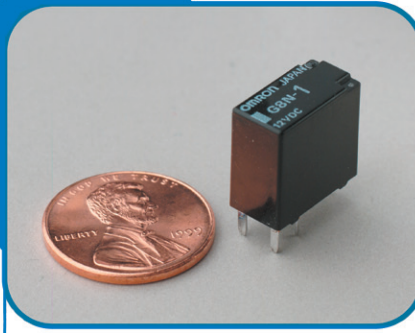


PCB RELAYS



Type

G8N

The World's Smallest Automotive PCB Relay

G8QW

Dual PCB

G8QN

Single PCB

Applications

- Window motor
- Door locks
- Horns
- Wiper motor
- Smart junction box and module applications

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- Door locks
- Horns
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Terminals

Printed circuit board

Printed circuit board

Footprint

SPDT

SPDT

Ambient Temperature

-40°C to +85°C

-40°C to +85°C

Rated Load

25A Motor Load Current
30A Inrush Current

10A Carry Current
30A Inrush Current

Rated Voltage

DC 12V

DC 12V

Operating Voltage

DC10 ~ 16V

DC10 ~ 16V

Coil Resistance

225 |

115 | , 185 | , and 210 | ±10%

Suppression

N/A

N/A

**Total Coil Resistance
w/ available suppression**

225 |

115 | , 185 | , and 210 | ±10%
respectively

**Contact Voltage Drop
(Initial Value at 23°C)**

<250mV@10A

" 250 mV (NO), " 250 mV (NC) @ 10A

Pull in Voltage

7.2V@ +20°C

7.3V@ +20°C max

Drop-out Voltage

1.0V@ +20°C

0.9V @ +20° C min

Insulation Resistance

>10 M |

>20 M | @500VDC

Shock Resistance

10 G min

10 G min

Vibration Resistance

10 G min

10 G min

Mechanical Life

Minimum of 1,000,000 Operations

Minimum of 1,000,000 Operations

**Electrical Life (14VDC,
Continuous Carry Current)**

Minimum of 100,000 Operations

Minimum of 100,000 Operations

Weight

4.1g

Approx. 5.5g (Single), 11g (Dual)

Dimensions

14.0 x 7.2 x 13.5 mm

G8QN: Max. 16.0 x 12.5 x 14.4 mm

G8QW: Max. 16.0 x 25.5 x 14.4 mm