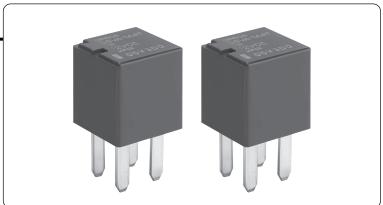
G8VA

Automotive low profile micro 280 terminal layout relay

This world's smallest Plug-in relay. Versatile usage for several different kinds of applications inside the relay boxes.

- Miniaturized package (reduced footprint and height)
- L x W x H = 15.5 x 15.0 x 16.4 mm nominal
- 280-terminal type
- Full automated assembly



■ Type standard

G8VA-① ② ③ ④ ⑤

	Classification	Symbol	Meaning of the symbol
1	Number of contact poles	1	Number of contact poles
2	Contact structure	Α	1a contact
3	Protective structure	4	Simple plastic seal
4	Terminal form	Т	Plug-in type
⑤	Surge suppressor	R	Built-in resistor

■ Classification

Classification	Terminal form	Contact structure	Protective structure	Rated coil voltage		Typo
Classification				Voltage (V)	Resistance (Ω)	Type
Micro 280	Plug-in 280 terminal	SPST (1a)	Simple plastic seal	DC12	132	G8VA-1A4T-R

■ Ratings

Operation coil

Rated	Coil resistance (Ω)		Rated	Operating	Release	Sorvice voltage	Rated power	
voltage (V)	Between terminals	Internal coil	Surge suppressor resistance	current (mA)	Operating voltage (V)	voltage (V)	Service voltage range (V)	consumption (mA)
DC12	132	150	1/4W 1.1k	90.9	7.5 or less	1.0 or more	DC10 to 16	1091

Switching area

Item	Performance
Contact material	Silver alloy
Rated voltage	DC12V
Rated load	Resistance load, 15A
Inrush current	80A
Continuous carry current*1	15A
Min. Carry / Switching Current	DC12V 1A

I Performance

Item		Value of Standard		
Voltage drop bety	veen terminals	200mV or less, 15A		
Operating time*2		10ms or less		
Release time*2		10ms or less		
Insulation	Between coil and terminal	10M Ω or more		
resistance*3	Between homopolar contacts	10M Ω or more		
Withstand	Between coil and terminal	AC500V for 1minute		
voltage*4	Between homopolar contacts	AC500V for 1minute		
Vibration	Durability	33Hz 44.1m/s ²		
tolerance	Malfunction	33Hz 44.1m/s ²		
Shock	Durability	1000m/s ² (Operating time:6ms)		
resistance	Malfunction	100m/s ² (Operating time:11ms)		
Mechanical endu	rance	1,000,000 times		
Electrical endura	nce	100,000 times		
Ambient tempera	ture	−30 to +100°C		
Ambient humidity	1	35 to 85%RH		
Weight		10g		

I Packing

Packing form	Tray
MOQ ^{*5}	500pcs (50pcs×10 trays)

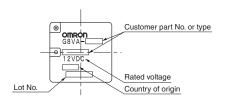
Note: All values above are measured in early time under an ambient temperature of +20°C and humidity of 65% unless stated.

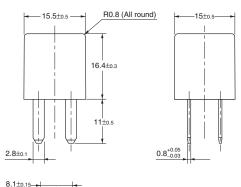
- *1. The value stated is at maximum temperature in a guaranteed ambient temperature.
- It changes depend on how a rated voltage is operated, but bounce-time is not included.
- Measured at DC500V.
- *4. Measured under 1mA of leak current, 50/60Hz for 1minute.
 *5. Minimum Order Quantity is subject to change, please feel free to contact our sales representatives.

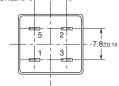
■ Dimensions (Unit: mm)

G8VA-1A4T-R









Terminal arrangement / Internal connections (BOTTOM VIEW)



* Tolerance unless otherwise specified Less than 1 mm: ±0.1 mm Less than 1 to 3 mm: ±0.2 mm

3 mm or more: ±0.3 mm

Please confirm Omron Safety Precautions for all automotive relays first. Omron can not guarantee automotive relays before finish making a contract with product specifications.

Mouser Electronics

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Omron:

G8VA-1A4T-R01-DC12