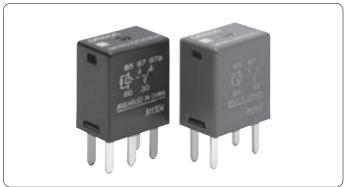
G8V-RH

Automotive high current Micro 280 relay

High current Micro 280 terminal layout

- Both SPST and SPDT available
- Miniaturized package (reduced outer length and width)
- L x W x H = 22.5 x 15 x 25.5 mm nominal
- 280-terminal type
- Full automated assembly



■ Type standard



	Classification	Symbol	Meaning of the symbol
1	Number of contact poles	1	Number of contact poles
2	Contact structure	Α	1a contact
	Contact structure	С	1c contact
3	Protective structure	7	Unsealed (In a case)
4	Terminal form	Т	Plug-in type
⑤	Surge suppressor	sor R Built-in resistor	

■ Classification

Classification	Terminal form	Contact structure	Protective structure	Rated coil		Time
Ciassification				Voltage (V)	Resistance (Ω)	Туре
280 Micro	Plug-in 280 terminal	SPST (1a)	Unsealed (In a case)	DC12	85	G8V-RH-1A7T-R
		SPDT (1c)				G8V-RH-1C7T-R

■ Ratings

Operation coil

Rated	Coil resistance (Ω)		Rated (Operating	Release	Service voltage	Rated power	
voltage (V)	Between terminals	Internal coil	Surge suppressor resistance	current (mA)	voltage (V)	voltage (V)	range (V)	consumption (mA)
DC 12	85	97	1/2W 680	141	8.0 or less	1.0 or more	DC10 to 16	1694

Switching area

Item		Performance	
Contact material		Silver alloy	
Rated voltage		DC12V	
Rated load	N.O. side	Resistance load, 35A	
nateu loau	N.C. side	Resistance load, 20A	
Inrush current	N.O. side	90A	
illiusii curielli	N.C. side	60A	
Continuous carry	N.O. side	35A	
current*1	N.C. side	20A	
Min. Carry / Switching Current		DC12V 1A	

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

■ Performance

Item		Standard value		
Voltage drop between terminals	N.O. side	150mV or less, 10A		
	N.C. side	175mV or less, 10A		
Operating time*2		Max. 10ms at 14V (Normally 4ms)		
Release time*2		Max. 10ms at 14V (Normally 1.8 ms)		
Insulation	Between coil and terminal	20MΩ or more		
resistance*3	Between homopolar contacts	20MΩ or more		
Withstand voltage*4	Between coil and terminal	AC500V, for 1minute		
	Between homopolar contacts	AC500V, for 1minute		
Vibration tolerance	Durability	33Hz 43.1m/s²		
Vibration tolerance	Malfunction	20 to 500Hz 43.1m/s ²		
Mechanical endurar	nce	1,000,000 times		
Electrical endurance	9	100,000 times		
Ambient temperatur	е	−40 to +125°C		
Ambient humidity		35 to 95%RH		
Weight		Approx. 19.3g		

■ Packing

Packing form	Tray
MOQ*5	480pcs (96pcs×5trays)

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

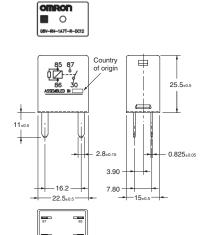
- *1. The value stated is at maximum temperature in a guaranteed ambient temperature.
 *2. Bounce time is not included.
 *3. Measured at DC500V.
 *4. Measured under 1mA of leak current, 50/60Hz for 1minute.
 *5. Minimum Order Quantity is subject to change, please feel free to contact our sales representatives.

80 Relay

■ Dimensions (Unit: mm)

G8V-RH-1A7T-R



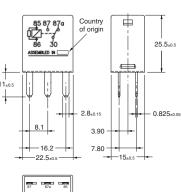


Terminal arrangement / Internal connections (BOTTOM VIEW)

G8V-RH-1C7T-R







Terminal arrangement / Internal connections



* 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