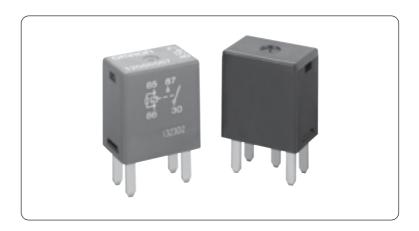
Automotive Micro 280 relay

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
Number of contact poles	1	Number of contact poles
Contact structure	Α	1a contact
Jonaci siructure	_	1c contact

① N С 2 3 Protective structure Unsealed (In a case) Terminal form Т Plug-in type Built-in resistor Surge suppressor R

■ Classification

Classification Terminal form	Torminal form	Contact structure	Protective structure	Rated coil		Tupo
	remina iom			Voltage (V)	Resistance (Ω)	Type
280 Micro P	Plug-in 280 terminal	SPST (1a)	Unsealed (In a case)	DC12	85	G8V-1A7T-R
		SPDT (1c)				G8V-1C7T-R

■ Ratings

Operation coil

I	Rated	Coil resistance (Ω)			Datad	Operating	Release	Convince voltage	Rated power
	voltage (V)	Between terminals	Internal coil	Surge suppressor resistance	Rated current (mA)	Operating voltage (V)	voltage (V)	Service voltage range (V)	consumption (mW)
	DC12	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, 20A	
	N.C. side	Resistance load, 10A	
Inrush current	N.O. side	60A	
	N.C. side	30A	
Continuous carry current*1	N.O. side	20A	
	N.C. side	10A	
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	N.O. side	150mV or less, 10A		
between terminals	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	20 Μ Ω or more		
resistance*3	Between homopolar contacts	$20 \mathrm{M}\Omega$ or more		
Withstand voltage*4	Between coil and terminal	AC500V, for 1minute		
	Between homopolar contacts	AC500V, for 1minute		
Vibration	Durability	33Hz 43.1m/s ²		
tolerance	Malfunction	20 to 500Hz 43.1m/s ²		
Mechanical endurance		1,000,000 times		
Electrical endurance		100,000 times (load dependent)		
Ambient temperature		−40 to +125°C		
Ambient humidity		35 to 95%RH		
Weight		Approx. 19.3g		

■ Packing

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

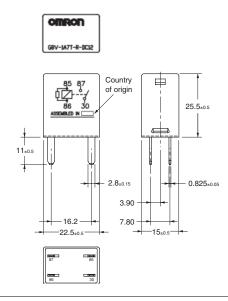
Note: All values above are measured in early time under an ambient temperature of +20°C and humidity of 65% unless stated *1. The value stated is at maximum temperature in a guaranteed ambient temperature. *2. Bounce time is not included.

- *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.

■ Dimensions (Unit: mm)

G8V-1A7T-R





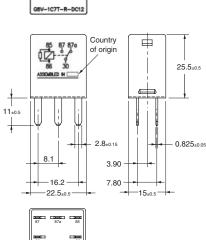
Terminal arrangement / Internal connections (BOTTOM VIEW)



G8V-1C7T-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