imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

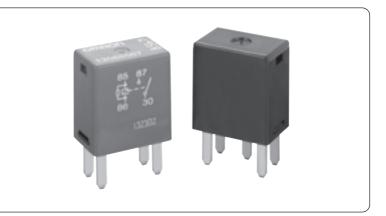
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Micro 280 terminal layout

- 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

G 8	V-	

12345

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

Classification

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

Ratings

Operation coil

Rated	Coil resistance (Ω)		Pated	Operating	Release	Service voltage	Rated power	
voltage (V)	Between terminals	Internal coil	Surge suppressor resistance	Rated current (mA)	Operating voltage (V)	voltage (V)	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		
naleu loau	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	2	Max. 10ms at 14V (Normally 4ms)		
Release time*2		Max. 10ms at 14V (Normally 1.8 ms)		
Insulation Between coil and terminal		$20M\Omega$ or more		
resistance*3	Between homopolar contacts	$20M\Omega$ 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 end	urance	1,000,000 times		
Electrical endura	ance	100,000 times (load dependent)		
Ambient temper	ature	−40 to +125°C		
Ambient humidit	ty	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.

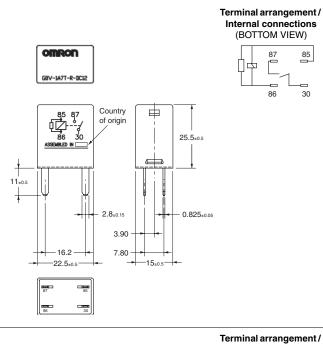
Beasured at DC500V.
Measured under 1mA of leak current, 50/60Hz for 1minute.
Minimum Order Quantity is subject to change, please feel free to contact our sales representatives.



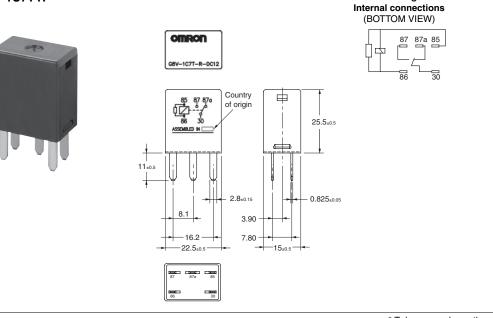
Dimensions (Unit: mm)

G8V-1A7T-R





G8V-1C7T-R



* 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

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280 Relay