



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!



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High-Current Micro ISO Automotive Relay G8HE

- Available in both SPST and SPDT versions
- Miniaturized package (reduced outer length and width)
- Designed to meet all standard Mini ISO load requirements
- L x W x H = 22.7 x 15.2 x 26.6 mm nominal
- ISO footprint with 280-size coil terminals for insertion error-proofing with standard Micro ISO product
- Fully automated assembly

Available Types

Type	Description
G8HE-1A7T-R-DC12	High-Current Micro ISO SPST Plug-In with Resistor
G8HE-1C7T-R-DC12	High-Current Micro ISO SPDT Plug-In with Resistor

Contact Data

Typical Switching Current	Inrush 150A, Steady State 40A (N.O.) / Inrush 40A, Steady State 20A (N.C.)
Max Switching Voltage	16V
Min. Carry / Switching Current	1A
Contact Material	Silver Tin Oxide (Cadmium Free)

Coil Ratings (at 20°C)

Type	Rated Voltage	Coil Resistance ±10%	Coil Resistance w/ 680Ω suppression ±10%	Nominal Power Consumption*	Pull in Voltage	Dropout Voltage
G8HE-1A7T-R-DC12 / G8HE-1C7T-R-DC12	12VDC	84 - 124 Ω	75 - 105 Ω	1.6 W	< 8 V	> 1 V

* Power consumption includes suppression resistor. Power consumption will decrease without coil suppression.

Typical Applications

Motor Load
Lamp Load
Resistive Load
Engine Cooling Fan
HVAC
Rear Defrost

G8HE Rev A

Characteristics

Max. Initial Contact Voltage Drop		50mV @ 10A / 5 mΩ
NO Activation Time		20 ms max. (6 ms typical) @ 13.5 V
NO Deactivation Time		20 ms max. (1.5 ms typical*) @ 13.5 V
Insulation resistance		20 MΩ min (at 500 VDC)
Dielectric strength		1 mA max. leakage at 500 VAC (50 Hz) for 0.5 sec between coil and contacts and between contacts.
Ambient Operating Temperature		-40°C to 125°C
Humidity		Up to 95%
Service life	Mechanical	1,000,000 operations min.
	Electrical	100,000 operations min (load dependent).
Weight		19.9g

* Typical data includes coil suppression. Release times may decrease without coil suppression.

Characteristic Reference Data

Durability Data

Relay	Load Type	Current	Cycles Tested
G8HE	N.O. Motor Load	80 A Inrush	300,000 3s on, 4s off
		33 A Steady State	
	N.C. Motor Load	40 A Inrush	300,000 3s on, 4s off
		20A Steady State	
	N.O. Lamp Load	150 A Inrush	300,000 3s on, 4s off
		30 A Steady State	

G8HE Rev A

Dimensions

