



»» Features

- High performance sugar cube automotive relay.
- Heavy duty suitable for wiper motor control, flashing lamp control, adjustable driver seat motor control, etc.
- Optional for flux-free type or sealed washable type.
- Comply with RoHS-Directive 2002/95/EC, and ELV-Directive 2000/53/EC.

»» Type List

Terminal style	Contact form	Designation (provided with)		
		Flux tight	Sealed type	Sealed type washable
PCB terminal	1A (SPNO)	812HM-1A-C	812HM-1A-V	812HM-1A-S
	1C (SPDT)	812HM-1C-C	812HM-1C-V	812HM-1C-S

»» Ordering Information

812 H M - 1C - C
 1 2 3 4 5

- | | |
|---|---|
| 1. 812 -- Basic series designation
2. H -- High power type
3. M -- Automotive relay | 4. 1A -- Single pole normally open
1C -- Single pole double throw
5. C -- Flux tight
V -- Sealed type
S -- Sealed type washable |
|---|---|

»» Contact Rating

Resistive load	15A 14VDC	Motor load	5A 14VDC Inrush 25A
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»» Coil Rating (DC)

Rated voltage (V)	Rated current ±10 % at 23°C (mA)	Coil resistance ±10 % at 23°C (Ω)	Max. continuous voltage at 85°C ⁽¹⁾	Pick up voltage(Max) at 23°C	Drop out voltage(Min) at 23°C	Power consumption at rated voltage
9	71.4	126	133 % of rated voltage	65 % of rated voltage	5 % of rated voltage	approx. 0.64W
12	53.3	225				
24	26.7	900				

Note : (1) Continuous contact current at 10A.

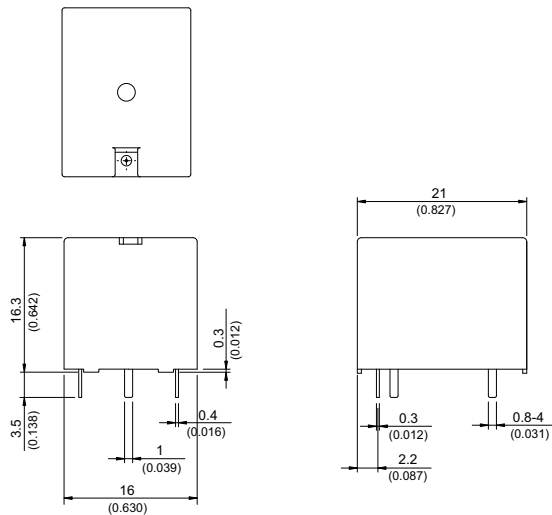
812HM

»» Specification

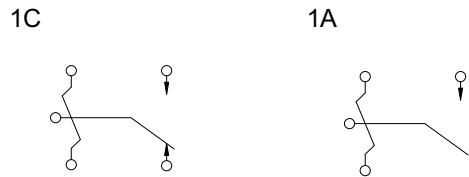
Contact material	AgSnO alloy	
Contact voltage drop ⁽¹⁾	Typ. 50mV at 10A	
Operate time ⁽¹⁾	15ms Max.	
Release time ⁽¹⁾	10ms Max.	
Insulation resistance ⁽¹⁾	100 MΩ Min. (DC 500V)	
Dielectric strength ⁽¹⁾	Between open contact	: AC 500V , 50/60Hz 1 min.
	Between contact and coil	: AC 500V , 50/60Hz 1 min.
Vibration resistance	Operating extremes	10~50Hz , amplitude 1.0 mm
	Damage limits	10~50Hz , amplitude 1.0 mm
Shock resistance	Operating extremes	10G
	Damage limits	100G
Life expectancy	Mechanical	10,000,000 operations (frequency 18,000 operations/hr)
	Electrical	100,000 operations (frequency 1,200 operations/hr)
Operating ambient temperature	-40~+85°C (no freezing)	
Weight	Approx. 10 g	

Note : (1) initial value

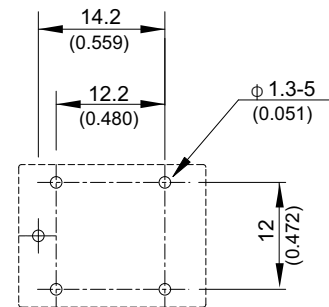
»» Outline Dimensions



»» Wiring Diagram BOTTOM VIEW



»» PC Board Layout BOTTOM VIEW



»» Engineering Data

