

812HM



»» Features

- High performance sugar cube automotive relay.
- Low profile and with cadmium free contacts provides with SPNC, SPNO, and SPDT.
- 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.

»» 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

- | | |
|---|---|
| <ul style="list-style-type: none"> 1. 812 -- Basic series designation 2. H -- High power type 3. M -- Automotive relay | <ul style="list-style-type: none"> 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

»» 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.

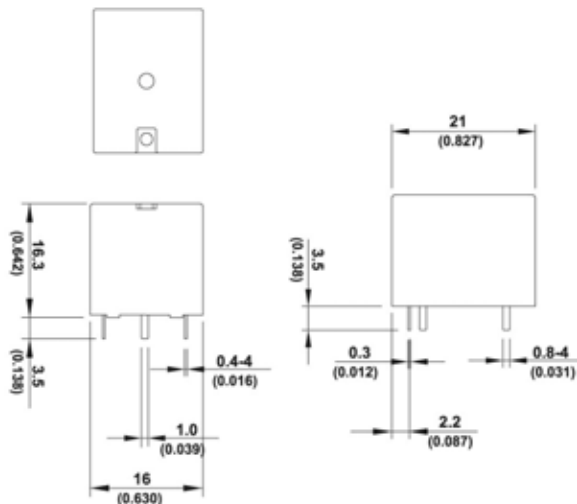
»» Specification

Contact material	AgSnO alloy	
Contact resistance ⁽¹⁾	100 mΩ Max.	
Operate time ⁽¹⁾	15 ms Max.	
Release time ⁽¹⁾	10 ms 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 1500V , 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	

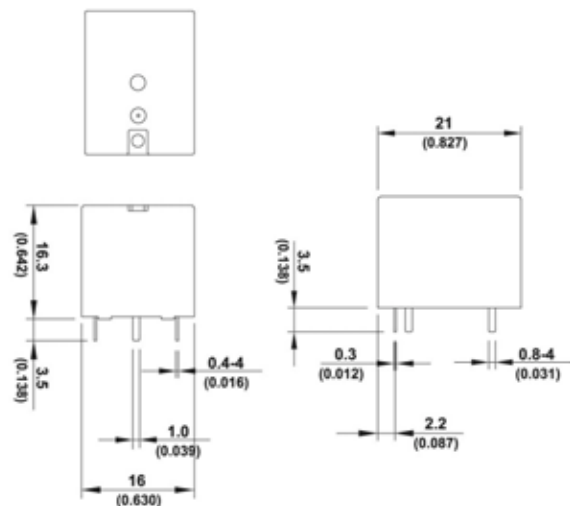
Note:(1) Initial value

»» Outline Dimensions

◆812HM(-C, -V)



◆812HM(-S)



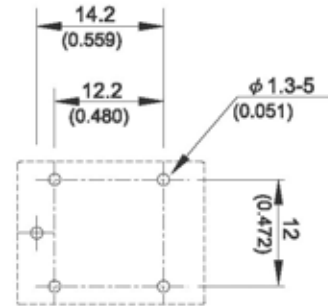
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»» Wiring Diagram

BOTTOM VIEW



»» PC Board Layout



»» Engineering Data

