

## MAIN FEATURE

1. Smaller size with 2×6A of rated carrying current and double make contact.
2. Applicable for automotive electrical systems.
3. Distinctive twin relay structure on JM-2 providing high performance for the use of automotive.
4. Resistance to environment with shock and vibration.
5. Plastic sealed type available.
6. Comply with RoHS, REACH and ELV regulations.

## CONTACT RATING

Load Type	JMW-1P (DM/LM)	JMW-2P (DM/LM)
Rated Load (Resistive)	2x6A 14VDC	2x6A 14VDC
Rated Carrying Current	2×6A	2×6A
Max. Allowable Voltage	60VDC	60VDC
Max. Allowable Current	12A	12A
Max. Allowable Power Force	150W	150W
Contact Material	Ag Alloy	Ag Alloy
Contact Form	SPST	2 x SPST

## APPLICATION

Power Window Control, Auto Door Lock Control,  
Power Mirror Control, Seat Adjustment, Wiper Control

## PERFORMANCE (AT INITIAL VALUE)

- Contact Resistance ..... 100 mΩ Max. @1A,6VDC
- Operate Time..... 10 mSec. Max.
- Release Time ..... 10 mSec. Max.
- Dielectric Strength:
  - Between Coil & Contact..... 500VAC at 50/60 Hz  
for one minute
  - Between Contacts ..... 500VAC at 50/60 Hz  
for one minute
- Surge Strength ..... 1,500V (between coil  
& contact 1.2x50μSec.)
- Insulation Resistance ..... 100 MegaΩ Min. at  
500VDC
- Max. On/Off Switching:
  - Electrical..... 6 Cycles per Minute.  
(at 1s ON, 9s OFF )
  - Mechanical..... 300 Cycles per Minute.
- Temperature Range ..... -40~+85°C
- Humidity Range ..... 45~85% RH.
- Coil Temperature Rise ..... 70°C Max.

- Vibration:
  - Destruction ..... 10 to 55 to 10 Hz,0.75 mm single  
amplitude (1.5mm double amplitude)
  - Malfunction ..... 10 to 55 to 10 Hz,0.75 mm single  
amplitude (1.5mm double amplitude)
- Shock:
  - Destruction ..... 1,000 m/S<sup>2</sup>
  - Malfunction ..... 100 m/S<sup>2</sup>
- Life Expectancy:
  - Mechanical ..... 10<sup>7</sup> Operations at No  
Load condition
  - Electrical ..... 10<sup>5</sup> Operations at Rated  
Resistive Load
- Weight ..... About 5.2g for 1P  
About 10.2g for 2P

## SAFETY STANDARD & FILE NUMBER

- NIL

**COIL SPECIFICATION (AT 20°C)**

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ( $\Omega \pm 10\%$ )	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Maximum Allowable Voltage (VDC)
JMW-DM	6	133	45	Abt. 0.8	60% Maximum	5% Minimum	150% (for short time carrying current)
	9	90	100				
	10	74	135				
	12	66.7	180				
JMW-LM	6	100	60	Abt. 0.6	60% Maximum	5% Minimum	150% (for short time carrying current)
	9	66.7	135				
	10	55.6	180				
	12	50	240				

**ORDERING INFORMATION**

**JMW - SS - 1 12 D M**

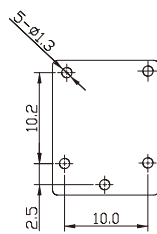
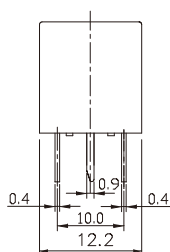
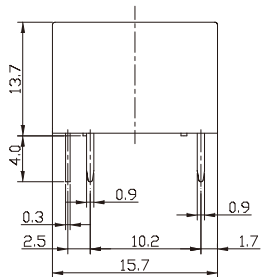
**Contact Form:** M: One Form A  
**Coil Sensitivity:** D: Standard DC  
 L: High DC  
**Coil Voltage:** 06: 6V, 09: 9V, 10: 10V, 12: 12V, 24: 24V  
**Number of Set:** 1: One Set  
 2: Two Sets  
**Type of Sealing:** SS: RT II Flux Proofed  
 SH: RT III Wash Tight  
**Type:** JMW

**CLASSIFICATION**

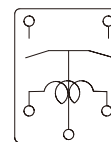
Model	JMW			
	Standard DC		High DC	
Coil Sensitivity				
Number of Pole	1 Set	2 Sets	1 Set	2 Sets
Flux Proofed	JMW-SS-1□□DM	JMW-SS-2□□DM	JMW-SS-1□□LM	JMW-SS-2□□LM
Wash Tight	JMW-SH-1□□DM	JMW-SH-2□□DM	JMW-SH-1□□LM	JMW-SH-2□□LM

**DIMENSION ( $\leq 5\text{mm} \pm 0.2\text{mm}$ ,  $> 5\text{mm} \pm 0.3\text{mm}$ , the tolerance of PCB thru hole:  $+0.1\text{mm}$ )**

**JMW-1 (One set)**

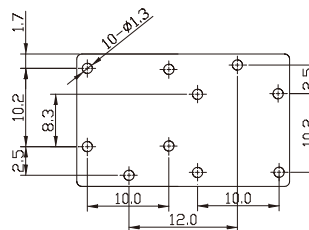
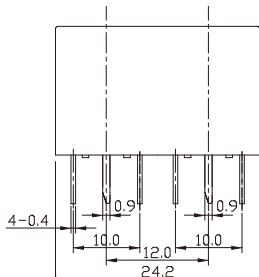
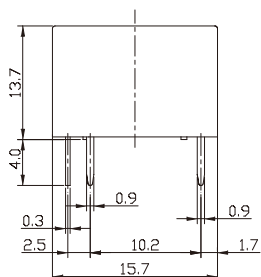


P.C.B Layout Bottom View

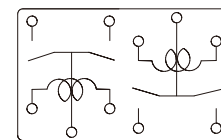


Bottom View

**JMW-2 (Two sets)**



P.C.B Layout Bottom View



Bottom View