

Features

- JWD has dual in-line package (DIP) configuration. (14-pin DIP)
- JWS has single in-line package (SIP) configuration.
- · Low cost, dry reed reliability with various contact arrangements.
- · Wave solderable and immersion cleanable.
- · Optional coil suppression diode.

Contact Data @ 25°C

Arrangements: 1 Form A (SPST - NO) on JWD & JWS. 1 Form B (SPST - NC), 1 Form C (SPDT) and 2 Form A (DPST-NO) on JWD only.

Expected Mechanical Life: 100 million operations.

Expected Electrical Life:

	Resistive Load	End of Life Criteria	No. of Operations
Forms A & B	20VDC, 500mA	500mV Loss	1 x 10 ⁶
	20VDC, 250mA	500mV Loss	20 x 10 ⁶
	Low Level (5VDC, 1mA)	50 Ohms	100 x 10 ⁶
Form C	12VDC, 500mA	500mV Loss	1 x 10 ⁶
	10VDC, 10mA	50 Ohms	25 x 10 ⁶
	Low Level (5VDC, 1mA)	50 Ohms	100 x 10 ⁶

Contact Ratings:

Maximum Switched Voltage: 100VDC for Forms A & B; 28VDC for Form C.

Maximum Switched Current: 500mA for all models.

Maximum Switched Power:10W for Forms A & B; 3W for Form C. Initial Contact Resistance: 200 milliohms, max. at 10mA, 6VDC.

Initial Dielectric Strength

Between Open Contacts: 250VDC for Forms A & B; 175VDC for Form C Between Contacts and Coil: 500VDC.

Initial Insulation resistance

Between Mutually Insulated Conductors: 10¹⁰ ohms at 100VDC.

Coil Data @ 25°C

See Ordering Information table.

Operate Data @ 25°C

Operate Time (Including Bounce)†: 1.5 ms, max.

Release Time (Including Bounce) †: 0.5 ms, max., for Forms A & B;

3.0 ms, max., for Form C.

† At or from Nominal Coil Voltage

Environmental Data

Temperature Range: -35°C to +85°C.

Shock: 100 g, max., in three planes for 8 ms, 1/2 wave pulse.

Vibration: 20 g, max., between 10 and 2,000 Hz.

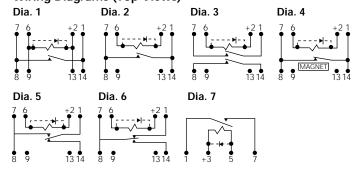
Mechanical Data

Termination: Printed circuit terminals on 0.100" (2.54mm) grid centers.

Enclosure Type: Black molded epoxy package.

Weight: 0.08 oz. (2.3g) approximately

Wiring Diagrams (Top Views)



Note: Terminal numbers are for reference only and do not appear on relays

Users should thoroughly review the technical data before selecting a product part number. It is recommended that users also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

JWD/JWS series

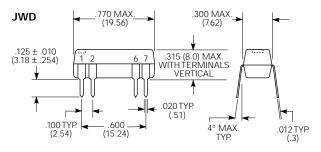
Dual In-Line Package & Single In-Line Package **Dry Reed Relays**

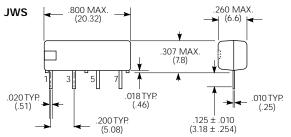
A File E29244 **File LR81479**

Ordering Information – Boldface items are more likely to be stocked.

Relay Part No. Diode Volt- age (VDC) tance ±10% (VDC) Operate Voltage (VDC) Release Voltage age (VDC) Coil Power (MW) JWD (DIP units) with 1 Form A (SPST-NO) contacts rated 10W max. JWD-107-1 No 5/6 500 3.8 0.5 19 50/72 JWD-107-3 No 12 1,200 9.6 1.0 19 120 JWD-107-7 Yes 12 1,200 9.6 1.0 19 120 JWD-171-5 No 24 2,150 19.2 2.0 40 268 JWD-171-10 Yes 24 2,150 19.2 2.0 40 268	1 1 1 1 2 2			
JWD (DIP units) with 1 Form A (SPST-NO) contacts rated 10W max. JWD-107-1 No 5/6 500 3.8 0.5 19 50/72 JWD-107-5 Yes 5/6 500 3.8 0.5 19 50/72 JWD-107-3 No 12 1,200 9.6 1.0 19 120 JWD-107-7 Yes 12 1,200 9.6 1.0 19 120 JWD-171-5 No 24 2,150 19.2 2.0 40 268	1 1 1 2			
JWD-107-5 Yes 5/6 500 3.8 0.5 19 50/72 JWD-107-3 No 12 1,200 9.6 1.0 19 120 JWD-107-7 Yes 12 1,200 9.6 1.0 19 120 JWD-107-15 No 24 2,150 19.2 2.0 40 268	1 1 1 2			
JWD-107-3 No 12 1,200 9.6 1.0 19 120 JWD-107-7 Yes 12 1,200 9.6 1.0 19 120 JWD-171-5 No 24 2,150 19.2 2.0 40 268	1 1 2			
JWD-107-7 Yes 12 1,200 9.6 1.0 19 120 JWD-171-5 No 24 2,150 19.2 2.0 40 268	1 2			
JWD-171-5 No 24 2,150 19.2 2.0 40 268	2			
JWD (DIP units) with 2 Form A (DPST-NO) contacts rated 10W max.				
JWD-171-21 No 5/6 200 3.8 0.5 14 125/180	3			
JWD-171-25 Yes 5/6 200 3.8 0.5 14 125/180	3			
JWD-171-23 No 12 500 9.6 1.0 19 288 100 12 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 <td>3</td>	3			
JWD-171-27 Yes 12 500 9.6 1.0 19 288 JWD-171-24 No 24 2,200 19.2 2.0 40 262	3			
JWD-171-28 Yes 24 2,200 19.2 2.0 40 262	3			
JWD (DIP units) with 1 Form B (SPST-NC) contacts rated 10W max.				
JWD-171-12 No 5/6 500 3.8 0.5 7 50/72	4			
JWD-171-17 Yes 5/6 500 3.8 0.5 7 50/72	4			
JWD-171-14 No 12 1,200 9.6 1.0 16 120	4			
JWD-171-19 Yes 12 1,200 9.6 1.0 16 120 JWD-171-15 No 24 2,200 19.2 2.0 40 262	4			
JWD-171-13 No 24 2,200 19.2 2.0 40 262 JWD-171-20 Yes 24 2,200 19.2 2.0 40 262	4			
JWD (DIP units) with 1 Form C (SPDT) contacts rated 3W max.				
JWD-172-1 No 5/6 200 3.8 0.5 12 125/180	5			
JWD-172-5 Yes 5/6 200 3.8 0.5 12 125/180	5			
JWD-172-3 No 12 500 9.6 1.0 19 288	5			
JWD-172-7 Yes 12 500 9.6 1.0 19 288 JWD-172-4 No 24 2.200 19.2 2.0 38 262	5			
JWD-172-4 No 24 2,200 19.2 2.0 38 262 JWD-172-8 Yes 24 2,200 19.2 2.0 38 262	5 5			
JWD-172-155 No 5/6 200 3.8 0.5 12 125/180	6			
JWD-172-159 Yes 5/6 200 3.8 0.5 12 125/180	6			
JWD-172-157 No 12 1,000 9.6 1.0 19 144	6			
JWD-172-161 Yes 12 1,000 9.6 1.0 19 144 JWD-172-158 No 24 2,150 19.2 2.0 38 268	6			
JWD-172-156 NO 24 2,150 19.2 2.0 38 268 38 268	6			
JWS (SIP units) with 1 Form A (SPST-NO) contacts rated 10W max.				
JWS-117-1 No 5 500 3.8 0.5 16 50	7			
JWS-117-6 Yes 5 500 3.8 0.5 16 50	7			
JWS-117-3 No 12 530 9.6 1.0 19 272	7			
JWS-117-8 Yes 12 530 9.6 1.0 19 272 JWS-117-13 No 12 1.850 9.6 1.0 30 78	7 7			
JWS-117-13	7			
JWS-117-5 No 24 2,150 19.2 2.0 36 268	7			
JWS-117-10 Yes 24 2,150 19.2 2.0 36 268	7			

Outline Dimensions





Magnetic shielding may be required between relays when they are placed in very close proximity to one another.