

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. Material: Ruthenium.

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

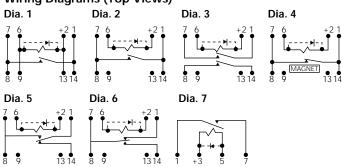
Environmental Data

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.

Dimensions are shown for reference purposes only.

Dimensions are in inches over (millimeters) unless otherwise specified.

JWD/JWS series

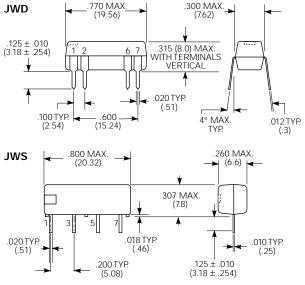
Dual In-Line Package & Single In-Line Package Dry Reed Relays

AJ File E29244 **(**) File LR81479

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

Relay Part No.	Diode	Nom. Volt- age (VDC)	Resis- tance ±10% (Ohms)	Must Operate Voltage (VDC)	Must Release Voltage (VDC)	Max. Volt- age (VDC)	Nom. Coil Power (mW)	Wir- ing Dia. No.		
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	1		
JWD-107-5	Yes	5/6	500	3.8	0.5	19	50/72	1		
JWD-107-3	No	12	1,200	9.6	1.0	19	120	1		
JWD-107-7	Yes	12	1,200	9.6	1.0	19	120	1		
JWD-171-5 JWD-171-10	No Yes	24 24	2,150 2,150	19.2 19.2	2.0 2.0	40 40	268 268	2		
								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 JWD-171-23	Yes No	5/6 12	200 500	3.8 9.6	0.5	14 19	125/180 288	3		
JWD-171-23 JWD-171-27	Yes	12	500	9.6	1.0	19	288	3		
JWD-171-24	No	24	2.200	19.2	2.0	40	260	3		
JWD-171-28	Yes	24	2,200	19.2	2.0	40	262	3		
JWD (DIP unit	s) with	1 Form E	3 (SPST-N	C) contact	s rated 10	W 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	4		
JWD-171-15	No	24	2,200	19.2	2.0	40	262	4		
JWD-171-20	Yes	24	2,200	19.2	2.0	40	262	4		
JWD (DIP unit	s) with	1 Form C	C (SPDT) c	ontacts ra	ted 3W m	ax.				
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 JWD-172-4	Yes No	12 24	500 2,200	9.6 19.2	1.0 2.0	19 38	288 262	5 5		
JWD-172-4 JWD-172-8	Yes	24	2,200	19.2	2.0	38	262	5		
JWD-172-155	No	5/6	2,200	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	6		
JWD-172-158	No	24	2,150	19.2	2.0	38	268	6		
JWD-172-162	Yes	24	2,150	19.2	2.0	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	7		
JWS-117-13	No	12	1,850	9.6	1.0	30	78	7		
	No Yes No	12 12 24	1,850 1,850 2,150	9.6 9.6 19.2	1.0 1.0 2.0	30 30 36	78 78 268	7		

Outline Dimensions



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

Specifications and availability subject to change.