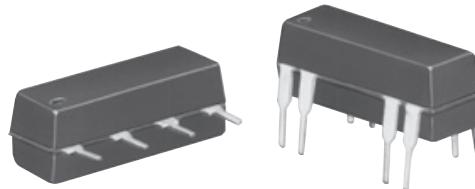


JWD/JWS Series Reed Relays

- 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 molded epoxy package
- Optional coil suppression diode

Typical applications

Telecommunications, measurement and control, automated test equipment, security systems, medical equipment.


Approvals

UL E29244, CSA LR81479

Technical data of approved types on request

Contact Data

Contact arrangement

JWD and JWS	1 form A (NO) contact
JWD only	1 form B (NC), 1 form C (CO), 2 form A (NO)

Rated voltage

1 form A, 1 form B and 2 form A	20VDC, 500mA
1 form C (CO)	10 VDC, 500mA and 10VDC, 10mA

Max. switching voltage

1 form A, 1 form B and 2 form A	100VDC
1 form C (CO)	28VDC

Rated current

1 form A, 1 form B and 2 form A	500mA, 20VDC
1 form C (CO)	500mA, 10VDC

Limiting making current

500mA

Limiting breaking current

500mA

Switching power

form A (NO) and form B (NC)	10W
form C (CO)	3W

Contact material

Ruthenium

Min. recommended contact load

10mV, 10mA

Minimum switching voltage

10mV

Initial contact resistance

200mΩ max. at 10mA, 6VDC

Frequency of operation

100Hz

Operate/release time max., incl. bounce

form A (NO) and form B (NC)	1.5/0.5ms
form C (CO)	1.5/3.0ms

Electrical endurance

form A (NO) and form B (NC), resistive load, +25°C	1x10 ⁶ ops.
20VDC, 500mA	1x10 ⁶ ops.
20VDC, 250mA	20x10 ⁶ ops.
5VDC, 1mA	100x10 ⁶ ops.
form C (CO) contact, resistive load, +25°C	
10VDC, 500mA	1x10 ⁶ ops.
10VDC, 250mA	20x10 ⁶ ops.
5VDC, 1mA	100x10 ⁶ ops.

Contact ratings

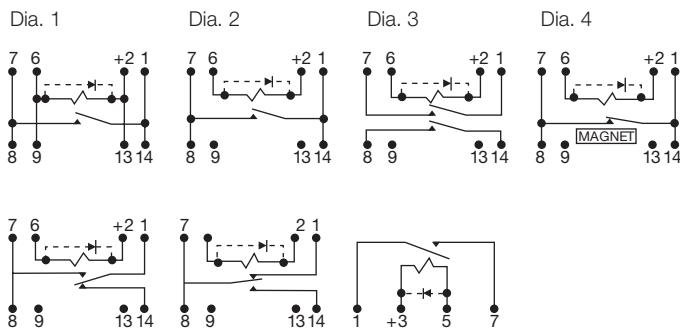
1 form A, 1 form B and 2 form A	500mA, 20VDC
1 form C (CO)	500mA, 10VDC

Mechanical endurance

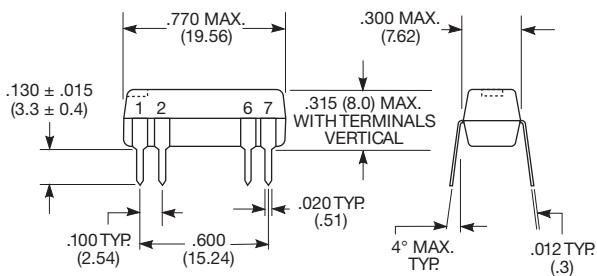
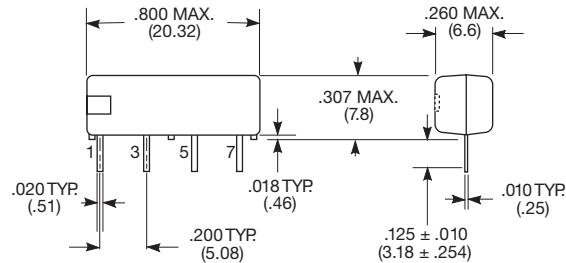
 100x10⁶ operations

JWD/JWS Series Reed Relays (Continued)
Terminal assignment

TOP view on component side of PCB


Dia. 5
Dia. 6
Dia. 7

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

Dimensions
JWD Series

JWS Series


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

Product code	Contacts	Max. rating	Diode	Coil voltage	Coil resistance ¹⁾	Operate voltage	Coil power	Wiring diagram	Part number
JWD-107-1	1 form A, 1 NO contact	10W	No	5/6VDC	500ohm	3.8VDC	50/72mW	1	1393771-3
JWD-107-5			Yes	5/6VDC	500ohm	3.8VDC	50/72mW	1	1393771-5
JWD-107-3			No	12VDC	1200ohm	9.6VDC	120mW	1	1393771-4
JWD-107-7			Yes	12VDC	1200ohm	9.6VDC	120mW	1	1393771-6
JWD-171-5			No	24VDC	2150ohm	19.2VDC	268mW	2	2-1393771-0
JWD-171-10			Yes	24VDC	2150ohm	19.2VDC	268mW	2	1393771-7
JWD-171-21	2 form A, 2 NO contacts		No	5/6VDC	200ohm	3.8VDC	125/180mW	3	1-1393771-4
JWD-171-25			Yes	5/6VDC	200ohm	3.8VDC	125/180mW	3	1-1393771-7
JWD-171-23			No	12VDC	500ohm	9.6VDC	288mW	3	1-1393771-5
JWD-171-27			Yes	12VDC	500ohm	9.6VDC	288mW	3	1-1393771-8
JWD-171-24			No	24VDC	2200ohm	19.2VDC	262mW	3	1-1393771-6
JWD-171-28			Yes	24VDC	2200ohm	19.2VDC	262mW	3	1-1393771-9
JWD-171-12	1 form B, 1 NCO contact		No	5/6VDC	500ohm	3.8VDC	50/72mW	4	1393771-8
JWD-171-17			Yes	5/6VDC	500ohm	3.8VDC	50/72mW	4	1-1393771-1
JWD-171-14			No	12VDC	1200ohm	9.6VDC	120mW	4	1393771-9
JWD-171-19			Yes	12VDC	1200ohm	9.6VDC	120mW	4	1-1393771-2
JWD-171-15			No	24VDC	2200ohm	19.2VDC	262mW	4	1-1393771-0
JWD-171-20			Yes	24VDC	2200ohm	19.2VDC	262mW	4	1-1393771-3
JWD-172-1	1 form C, 1 CO contact	3W	No	5/6VDC	200ohm	3.8VDC	125/180mW	5	2-1393771-1
JWD-172-5			Yes	5/6VDC	200ohm	3.8VDC	125/180mW	5	2-1393771-9
JWD-172-3			No	12VDC	500ohm	9.6VDC	288mW	5	2-1393771-7
JWD-172-7			Yes	12VDC	500ohm	9.6VDC	288mW	5	3-1393771-0
JWD-172-4			No	24VDC	2200ohm	19.2VDC	262mW	5	2-1393771-8
JWD-172-8			Yes	24VDC	2200ohm	19.2VDC	262mW	5	3-1393771-1
JWD-172-155			No	5/6VDC	200ohm	3.8VDC	125/180mW	6	2-1393771-2
JWD-172-159			Yes	5/6VDC	200ohm	3.8VDC	125/180mW	6	2-1393771-4
JWD-172-161			Yes	12VDC	1000ohm	9.6VDC	144mW	6	2-1393771-5
JWD-172-158			No	24VDC	2150ohm	19.2VDC	268mW	6	2-1393771-3
JWD-172-162			Yes	24VDC	2150ohm	19.2VDC	268mW	6	2-1393771-6
JWS-117-1	1 form A, 1 NO contact	10W	No	5VDC	500ohm	3.8VDC	50mW	7	3-1393771-2
JWS-117-6			Yes	5VDC	500ohm	3.8VDC	50mW	7	3-1393771-8
JWS-117-3			No	12VDC	530ohm	9.6VDC	272mW	7	3-1393771-4
JWS-117-8			Yes	12VDC	530ohm	9.6VDC	272mW	7	3-1393771-6
JWS-117-18			Yes	12VDC	1850ohm	9.6VDC	78mW	7	3-1393771-3
JWS-117-5			No	24VDC	2150ohm	19.2VDC	268mW	7	3-1393771-5

 1) Coil resistance $\pm 10\%$.