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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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

Approvals

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





Approvais	
UL E29244, CSA LR81479	
Technical data of approved types on reques	t
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	40144
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 100Hz
Frequency of operation Operate/release time max., incl. bou	
form A (NO) and form B (NC)	1.5/0.5ms
form C (CO)	1.5/3.0ms
Electrical endurance	1.5/5.0118
form A (NO) and form B (NC), resi	stive load +25°C
20VDC, 500mA	1x10 ⁶ ops.
20VDC, 250mA	20x10 ⁶ ops.
5VDC, 1mA	100x10 ⁶ ops.
form C (CO) contact, resistive load	•
10VDC, 500mA	1x10 ⁶ ops.
10VDC, 250mA	20x10 ⁶ ops.
5VDC, 1mA	100x10 ⁶ ops.
Contact ratings	000.
1 form A, 1 form B and 2 form A	500mA, 20VDC
1 form C (CO)	500mA, 10VDC
Mechanical endurance	100x10 ⁶ operations
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Coil Data	
Coil voltage range	5 to 24VDC
Min./Max. energization duration	continuous
Max. coil temperature	105° C
Thermal resistance	approximately 100°C/W
Coil insulation system according UL	class A

Insulation Data		
Initial dielectric strength		
between open contacts		
form A (NO) and form B (NC)	250VDC,	
form C (CO)	175VDC	
between contact and coil	500VDC	
between adjacent contacts		
2 form A (NO) of JWD only	500VDC	
Initial insulation resistance		
between insulated elements	$10^{10}\Omega$ at $100VDC$	
Capacitance between open contacts	typ. 0.5pF	

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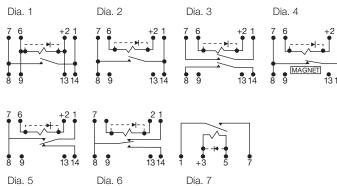
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content					
refer to the Product Compliance Support Center					
www.te.com/customersupport/rohssupportcen					
Ambient temperature	-35°C to +85°C				
Category of environmental protection					
IEC 61810	RTIII -wash tight				
Vibration resistance (functional)	20g, 10 to 2000 Hz				
Shock resistance (functional), 3 planes, half sine pulse, 8ms					
form A (NO)	100g				
form B (NC) and form C (CO)	50g				
Terminal type	PCB-THT				
Mounting position	any				
Weight	approximately 2.3g (0.08 oz.)				
Resistance to soldering heat THT					
IEC 60068-2-20, wave solder	max. 260°C/10s				
Ultrasonic cleaning	no				
Conformal coating	yes				
Packaging/unit	tray/50 pcs.,				
	bundle/250 pcs.,				
	box/500 pcs.				



JWD/JWS Series Reed Relays (Continued)

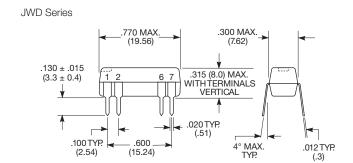
Terminal assignment

TOP view on component side of PCB

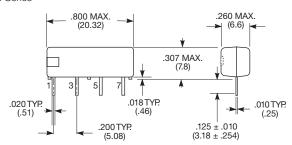


Note: Terminal numbers are for reference only and do not appear on relays.

Dimensions



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.	10W	No	5/6VDC	500ohm	3.8VDC	50/72mW	1	1393771-3
JWD-107-5	1 NO contact		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,		No	5/6VDC	200ohm	3.8VDC	125/180mW	3	1-1393771-4
JWD-171-25	2 NO contacts		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,		No	5/6VDC	500ohm	3.8VDC	50/72mW	4	1393771-8
JWD-171-17	1 NCO contact		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,	3W	No	5/6VDC	200ohm	3.8VDC	125/180mW	5	2-1393771-1
JWD-172-5	1 CO contact		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,	10W	No	5VDC	500ohm	3.8VDC	50mW	7	3-1393771-2
JWS-117-6	1 NO contact		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 ±10%.