

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 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	40)4/				
form A (NO) and form B (NC)	10W				
form C (CO)	3W				
Contact material	Ruthenium				
Min. recommended contact load	10mV, 10mA 10mV				
Minimum switching voltage					
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					
1 form A, 1 form B and 2 form A	500mA, 20VDC				
1 form C (CO)	500mA, 10VDC				
Mechanical endurance	100x10 ⁶ operations				

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 Ω at 100VDC
Capacitance between open contacts	typ. 0.5pF

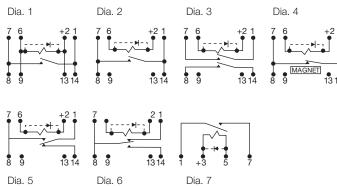
Other Data					
Material compliance: EU RoHS/ELV,	China RoHS, REACH, Halogen content				
refer to the	Product Compliance Support Center at				
www.te.com/customersupport/rohssupportce					
Ambient temperature	-35°C to +85°C				
Category of environmental protection	1				
IEC 61810	RTIII -wash tight				
Vibration resistance (functional)	20g, 10 to 2000 Hz				
Shock resistance (functional), 3 plane	es, 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					



JWD/JWS Series Reed Relays (Continued)

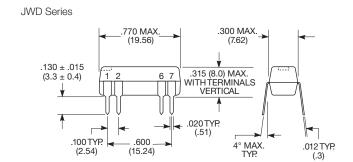
Terminal assignment

TOP view on component side of PCB

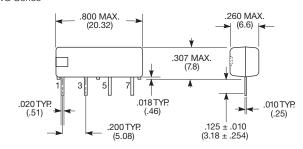


Note: Terminal numbers are for reference only and do not appear on relays.

Dimensions



JWS Series



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

JWD-107-3 JWD-107-7 JWD-171-5 JWD-171-10 JWD-171-21	1 form A, NO contact 2 form A, NO contacts	10W	No Yes No Yes No Yes	5/6VDC 5/6VDC 12VDC 12VDC 24VDC	resistance ¹⁾ 500ohm 500ohm 1200ohm 1200ohm	3.8VDC 3.8VDC 9.6VDC	50/72mW 50/72mW 120mW	1	1393771-3 1393771-5
JWD-107-3 JWD-107-7 JWD-171-5 JWD-171-10 JWD-171-21 JWD-171-25 JWD-171-23	2 form A,		No Yes No Yes	12VDC 12VDC 24VDC	1200ohm 1200ohm	9.6VDC		1	
JWD-107-7 JWD-171-5 JWD-171-10 JWD-171-21 JWD-171-25 JWD-171-23			Yes No Yes	12VDC 24VDC	1200ohm		120mW	4	
JWD-171-5 JWD-171-10 JWD-171-21 JWD-171-25 JWD-171-23			No Yes	24VDC		0.01/0.0			1393771-4
JWD-171-10 JWD-171-21 JWD-171-25 JWD-171-23			Yes			9.6VDC	120mW	1	1393771-6
JWD-171-21 JWD-171-25 JWD-171-23				0.11/0.0	2150ohm	19.2VDC	268mW	2	2-1393771-0
JWD-171-25 2 JWD-171-23				24VDC	2150ohm	19.2VDC	268mW	2	1393771-7
JWD-171-23	NO contacts		No	5/6VDC	200ohm	3.8VDC	125/180mW	3	1-1393771-4
			Yes	5/6VDC	200ohm	3.8VDC	125/180mW	3	1-1393771-7
.IWD-171-27			No	12VDC	500ohm	9.6VDC	288mW	3	1-1393771-5
0 1 1 1 2 1			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%.

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