

D200 Series

High Power 200W reed relay with 7kV isolation



The D200 series combines a high power 200W switching capacity with isolation of 7kV across the contacts.

This switching performance is achieved through the use of high vacuum reed switches with tungsten contacts. These relays are suitable for high reliability applications, such as test equipment and high voltage power supplies.

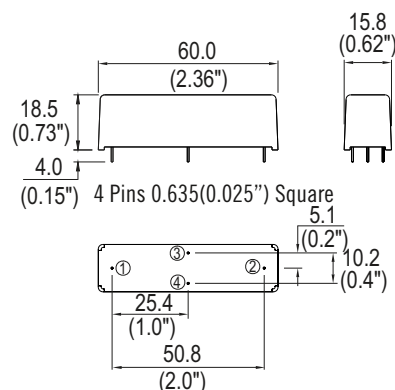
These are PCB mount relays, though custom options may be available on request.

- **200W switching power**
- **7kV Isolation across contacts**
- **Low contact resistance**
- **PCB mount**
- **Excellent AC characteristics**

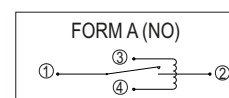
Contact Specification	Unit	Condition
Switch Action		SPNO
Contact Material		Tungsten
Isolation across contacts kV	DC or AC peak	7
Switching Power Max.	W resistive	200
Switching Voltage Max.	V DC or AC peak	2500
Switching Current Max.	A DC or AC peak	3
Carry Current Max	A DC or AC peak	5
Capacitance across contacts	pF coil to screen grounded	0.8 typ
Lifetime operations	dry switching	10 ⁹
	50W switching	10 ⁶
Contact Resistance	mΩ max (typical)	600
Insulation Resistance	Ωmin (typical)	(10 ¹³)
Coil Specification		5V 12V 24V
Must Operate Voltage	V DC	3.75 9 20
Must Release Voltage	V DC	0.5 1.25 4
Operate Time	ms diode fitted	6.0 6.0 6.0
Release Time	ms diode fitted	1.0 1.0 1.0
Resistance	Ω	28 150 780
Note: The operate / release voltage and coil resistance will change at a rate of 0.4% per degree C. Values are stated at room temperature (20 degrees C)		
Relay Specification		
Isolation contact/coil	kV DC or AC peak	17
Insulation resistance contact to all terminals	Ωmin (typical)	10 ¹⁰ (10 ¹³)
Environmental		
Operating Temp range	°C	20 to +70
Standard Parts	Coil Voltage Vdc	
DAT200-05	5	
DAT200-12	12	
DAT200-24	24	

Please refer to this document for circuit design notes:-
<http://www.cynergy3.com/blog/application-notes-reed-relays-0>

Mechanical Dimensions



CIRCUIT DIAGRAM



Mouser Electronics

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Sensata:

[DAT200-05](#) [DAT200-12](#) [DAT200-24](#)