

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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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D-HR Series

High Insulation Resistance, High Voltage Relays - 10kV & 15kV





Very high isolation voltages - up to 15kV are achieved through the use of high vacuum reed switches with either rhodium or tungsten contacts which make these relays suitable for high reliability applications, such as cardiac defibrillators, test equipment and high voltage power supplies.

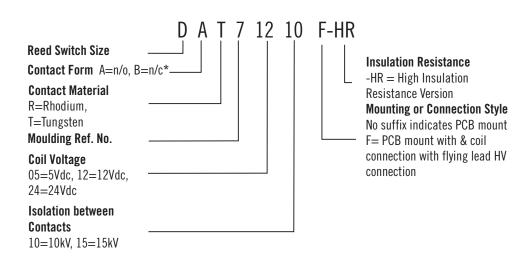
The rhodium contact relays have low contact resistance, while the tungsten contact relays can switch higher voltages.

- 10kV or 15kV Isolation
- Low Contact Resistance
- 1x10¹⁴ Ohms Minimum Insulation Resistance
- PCB or Flying Leads Connections
- Ideal for sensitive test and measurement circuits which require low leakage current losses

Contact Specification	Unit	Condition	10kV SPNO			10kV SPNC			15kV SPNO*			
Contact Material			Rho	dium	Tungsten	Rhodiu	m Tung	gsten	Tun	gsten		
Isolation across contacts	s kV	DC or AC peak	10		10	10	10		15			
Switching Power Max. W		50		50	50 50		50					
Switching Voltage Max.	٧	DC or AC peak	1000		7000	1000 7000		10000				
Switching Current Max.	Α	DC or AC peak	3		2	3 2		2				
Carry Current Max	Α	DC or AC peak	4		3	4	3		2			
Capacitance across	pF	coil to screen	<0.	2	< 0.2	<0.2	<0.2		<0.2			
contacts		grounded										
Lifetime Operations	S	dry switching	10°		10 ⁹	10°	10°		10°			
50W switching			106		10^{6}	10 ⁶	10 ⁶		10 ⁶			
Contact Resistance	mΩ	max (typical)	50 (15)		250(100)	1 '	50 (15) 250(100)		250 (100)			
Insulation Resistance Ωmin			1x10 ¹⁴			1x10 ¹⁴			1x10 ¹⁴			
modiation resistance 22mm			1/10			1/10			1/10			
Coil Specification			5V	12\	/ 24V	5V	12V	24V	5V	12V	24V	
Must Operate Voltage	٧	DC	3.7	9	20	3.7	9	20	3.7	9	20	
Must Release Voltage	٧	DC	0.5	1.2	5 4	0.5	1.25	4	0.5	1.25	4	
Operate Time	ms	diode fitted	3.0	3.0	3.0	2.0	2.0	2.0	3.0	3.0	3.0	
Release Time	ms	diode fitted	2.0	2.0	2.0	3.0	3.0	3.0	2.0	2.0	2.0	
Resistance	Ω		28	150	780	38	240	925	16	95	350	
Relay Specification												
Isolation contact/coil kV			17			17			17			
Insulation resistance contact												
to all terminals Ω min (typical)			1x10 ¹⁴				1x10 ¹⁴			1x10 ¹⁴		
Environmental	ıvironmental											
Operating Temp range	Operating Temp range °C		-20 to +70				-20 to +70			-20 to +70		

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

Part Numbering System



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D-HR 2016

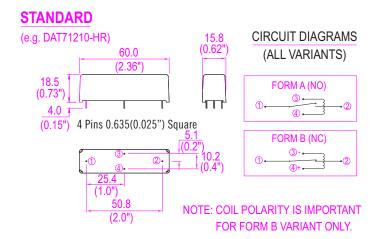
ISO9001certified

* Form B (n/c) is not available on 15kV models

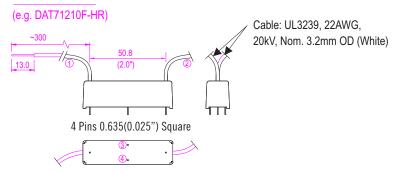
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MECHANICAL



FLYING LEAD



NOTE: PINS WHICH ARE NOT NUMBERED HAVE NO ELECTRICAL CONNECTION.

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