

Capable of withstanding voltages up to 15kV, the D-series High Voltage Reed Relay is suitable for high reliability applications such as cardiac defibrillators, test equipment and high voltage power supplies. Two contact materials are available for low contact resistance or power switching applications. Standard coil voltages of 5, 12 and 24 volts are available with form A and B contact configurations.

The D-series range is now available with a new panel mounting option via nylon studs as well as a choice of electrical connection methods (solder turret tag, flying lead and 1/4" push on terminals) complementing the standard PCB 'through-hole' device.

Contact	Units	Conditions	10kV Form A			10kV Form B			15k	V Form	n A
Contact material			Rhodi	ium Tu	Ingsten	Rhod	ium Tu	ungsten	Tui	ngsten	
Isolation across conta	cts kV	DC or AC peak	10)	10	1	0	10		15	
Max. switching power	W		50)	50	50)	50		50	
Max. switching voltag	e V	DC or AC peak	100)0	7000	100	00	7000		10000)
Max. switching curren	nt A	DC or AC peak	3		2	3		2		2	
Capacitance across contacts	pF	coil/screen grounded	<0.	2	<0.2	<0	.2	<0.2		<0.2	
Lifetime operations	•	dry switching	10	9	10 [°]	10	9	10 [°]		10 ⁹	
Lifetime operations		50W switching	10	6	10 ⁶	10	6	10 ⁶		10 ⁸	
Contact resistance	ontact resistance mOhms		50 (15) 250 (100)		50 (15) 250 (100)		250 (100)				
Insulation Resistance	Ohms	minimum (typical)	10 ¹⁰ (10 ¹³)10 ¹⁰ (10 ¹³)		10 ¹⁰ (10 ¹³)10 ¹⁰ (10 ¹³)		10 ¹⁰ (10 ¹³)				
Coil			5V	12V	24V	5V	12V	24V	5V	1 2 V	24V
Must Operate	V	DC	3.7	9	20	3.7	9	20	3.7	9	20
Must Release	٧	DC	0.5	1.25	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	Ohms		28	150	780	38	240	925	16	95	350
Relay											
Isolation contact											
to coil kV		DC or AC peak	17		17			17			
Insulation resistance											
contact to all other	Ohme	minimum (tynical)			1010 (1013)			1010 (1013)			
Ierminuis Environmental	ontral		10 (10)						10 (10)		
Operating temperatur	re										
range °C		-	20 to +70			-20 to +70			-20 to +70		



15kV Isolation
Low Contact Resistance
High Power Switching
PCB or Panel Mount
Flying Lead, Solder Turret and 1/4" Spade options
Excellent AC Characteristics

Crydom Magnetics Ltd 7 Cobham Road Ferndown Industrial Estate Wimborne Dorset BH21 7PE Tel: +44 (0)1202 897969 Fax: +44 (0)1202 891918 magnetics@crydom.com www.crydom.co.uk

