

R81 series

High Voltage Relays

7kV SYSTEM VOLTAGE Make & Break Load Switching



FEATURES

- SPST-NO and SPST-NC
- Vacuum sealed ceramic
- Tungsten contacts for load switching
- PCB Mountable (optional)

- Mountable in any orientation
- Meets RoHS 2011/65/EU



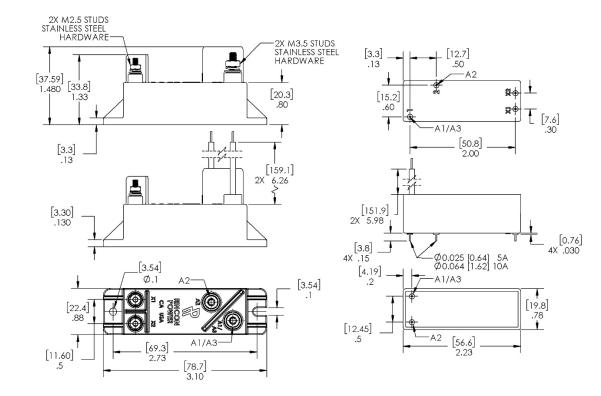




PERFORMANCE

TABLE 1. SPECIFICATIONS			
CHARACTERISTIC	MEASURE		
Contact Arrangement	Form A, SPST-NO or Form B, SPST-NC		
Max Operating Voltage (Peak, between Contacts and Contacts to Base) (Max Leakage Current: 15µA)	7kV dc or 60Hz		
Test Voltage (Peak, between Contacts and Contacts to Base) (Max Leakage Current: 15µA)	8kV dc or 60Hz		
Continuous Current, Max	t, Max 5A 2X .025 [0.64mm] PCB Mount Version Only		
	10A 2X .065 [1.62mm] PCB Mount Version Only		
	10A Panel Mount and Flying Lead Versions Only		
Contact Resistance (Max)	0.030 Ω @ 1Å		
Operate Time (Max, incl bounce) 10ms			
Release Time (Max) 10ms			
Shock - Functional, 1/2 Sine, 11ms	30G		
Vibration, Operating, Sine (50-2,000Hz) Peak	10G		
Operating Temperature	-50°C to 85°C		
Ingress Protection	Hermetic, exceeds IP67and IP6K9		
Mechanical life	2,000,000 cycles		
Weight	56 g		
COIL (25° C)	MEASURE		
Nominal Voltage (VDC)	12 26.5		
Pick-up Voltage, Max (VDC)	8 16		
Drop-out Voltage (VDC)	0.5-5 1-10		
Coil Resistance	70Ω 290Ω		

PRODUCT DIMENSIONS [mm]





ORDERING KEY

TABLE 2. PRODUCT NOMENCLATURE					
Series	Contact Arrangement	Coil	High Voltage Connection / Max Current	Mounting	
R81	A Normally	2 12Vdc Coil, PC Pins	A PCB A2 & A1/A3 Pins DIA=.064 IN [1.62] / 10A Max	5 PCB	
	Open	3 26.5Vdc Coil, PC Pins	3 PCB A2 & A1/A3 Pins DIA=.025 IN [0.64] / 5A Max	Mount	
	B Normally	A 12Vdc Coil, Panel Mount	4 Flying Leads / 10A Max	7 Panel	
	Closed	B 26.5Vdc Coil, Panel Mount	5 Threaded Terminals / 10A Max	Mount	

NOTES

- Relay is operated by a coil that changes resistance with temperature: Maximum coil voltage will be lower than
 indicated at temperatures above 25°C, and higher than indicated at temperatures below 25°C.
- Nominal Coil Voltage for Pick-up Current, Coil Current and Coil Power specifications, Current/Wattage will be lower than indicated at temperatures above 25°C and higher than indicated at temperatures below 25°C.
- Pick-up Voltage and Drop Out Voltage will be lower than indicated at temperatures below 25°C and higher than indicated at temperatures above 25°C.

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