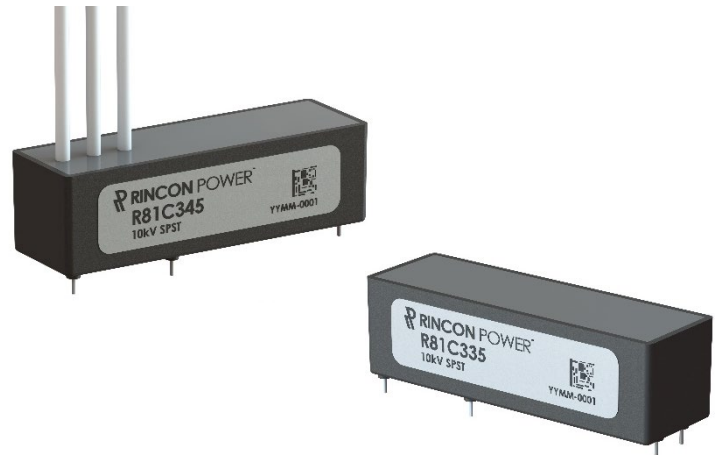


R81C SERIES

High Voltage Relays

10kV SYSTEM VOLTAGE

Make & Break Load Switching



FEATURES

- SPDT
- Vacuum sealed ceramic
- Tungsten contacts for load switching
- PCB Mountable
- High current carry, low current leakage
- Meets RoHS 2011/65/EU
- Mountable in any orientation

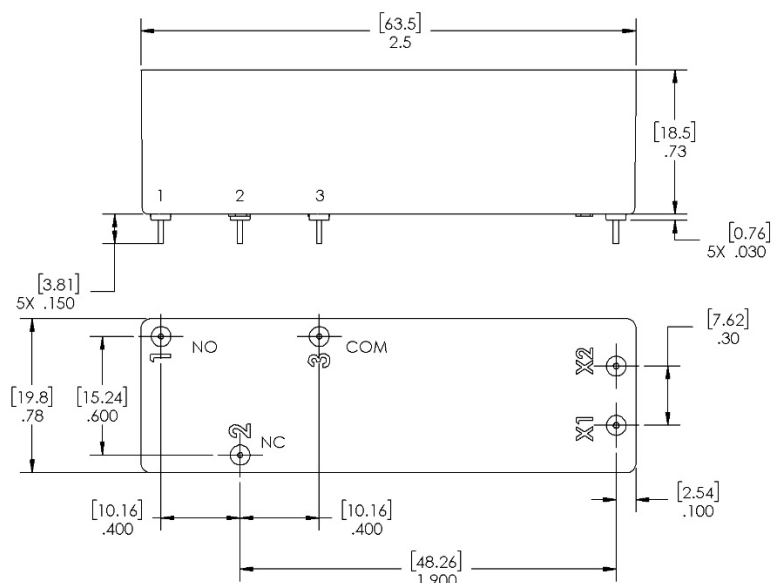
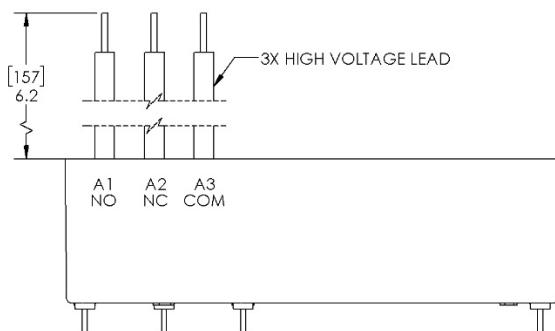


PERFORMANCE

TABLE 1. SPECIFICATIONS

CHARACTERISTIC	MEASURE	
Contact Arrangement	Form C, SPDT	
Max Operating Voltage (Peak, between Contacts and Contacts to Base) (Max Leakage Current: 15 μ A)	7kV dc or 60Hz	
Test Voltage (Peak, between Contacts and Contacts to Base) (Max Leakage Current: 15 μ A)	8kV dc or 60Hz	
Continuous Current, Max	5A 5X .025 [0.64mm] PCB Mount Version Only	
	10A Flying Lead Version Only	
Contact Resistance (Max)	0.050 Ω @ 1A	
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 IP67 and IP6K9	
Mechanical life	2,000,000 cycles	
Weight	70 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	70 Ω	290 Ω

PRODUCT DIMENSIONS [mm]



ORDERING KEY

TABLE 2. PRODUCT NOMENCLATURE

Series	Contact Arrangement	Coil	High Voltage Connection / Max Current	Mounting
R81	C SPDT	2 12Vdc Coil, PC Pins	3 PCB Pins DIA=.025 IN [0.64] / 5A Max	5 PCB Mount
		3 26.5Vdc Coil, PC Pins	4 Flying Leads / 10A Max	

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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