

R41C SERIES

High Voltage Relays

5kV SYSTEM VOLTAGE

Make & Break Load Switching



FEATURES

- Form C, SPDT
- Vacuum sealed ceramic
- Suitable for RF applications
- Tungsten contacts for load switching
- Meets RoHS 2011/65/EU

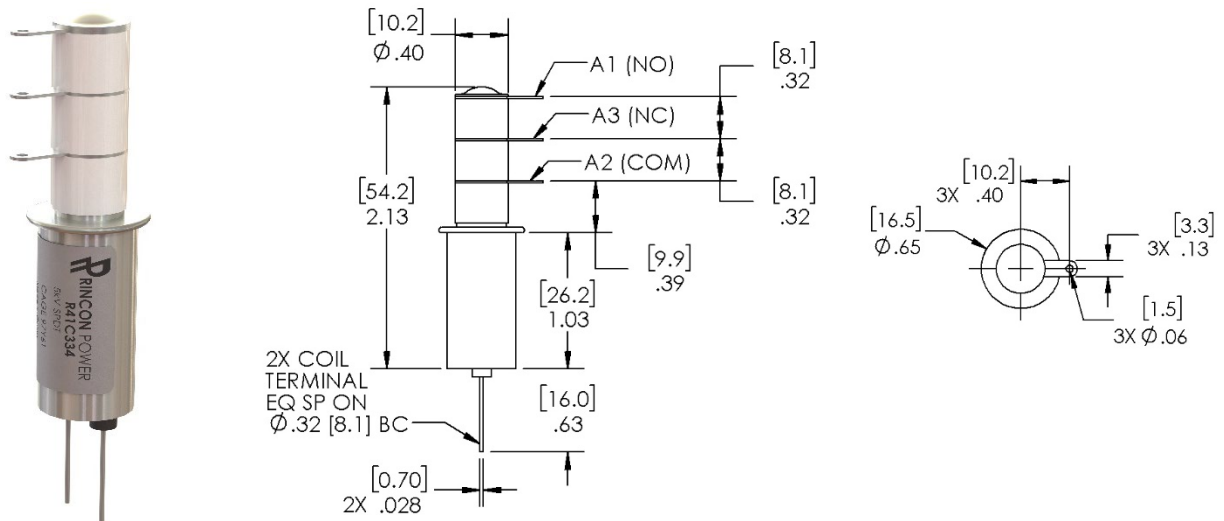


PERFORMANCE

TABLE 1. SPECIFICATIONS

CHARACTERISTIC	MEASURE
Contact Arrangement	Form C, SPDT (Single Pole Double Throw)
Max Operating Voltage (Peak, between Contacts and Contacts to Base) (Max Leakage Current: 15µA)	5.0kV dc or 60Hz 4.5kV dc at 2.5 MHz 3.5kV dc at 16 MHz 2.8kV dc at 32 MHz
Test Voltage (Peak, between Contacts and Contacts to Base) (Max Leakage Current: 15µA)	6kV dc or 60Hz
Continuous Current, Max DC or 60Hz	30A
Continuous Current, Max 2.5 MHz	24A
Continuous Current, Max 16 MHz	16A
Continuous Current, Max 32 MHz	12A
Capacitance – Across Open Contacts	1.2 pF
Capacitance – Contacts to Ground	1.2 pF
Coil Hi-Pot (V RMS, 60Hz)	500V
Contact Resistance (Max)	0.02 ohm @ 1A
Operate Time (Max, incl bounce)	10ms
Release Time (Max)	10ms
Shock, Operating, 1/2 Sine, 11ms	50G
Vibration, Operating, Sine (55Hz-2,000Hz)	10G
Operating Temperature	-55°C to 125°C
Mechanical life	2,000,000 cycles
Weight	28g
COIL (25° C)	MEASURE
Nominal Voltage (Vdc)	12 26.5
Pick-up Voltage, Max (Vdc)	8 16
Drop-out Voltage (Vdc)	0.5-5 1.0-10
Coil Resistance	70Ω 290Ω

PRODUCT DIMENSIONS [mm]



ORDERING KEY

TABLE 2. PRODUCT NOMENCLATURE

Series	Coil	High Voltage Connection	Mounting
R41C	2 12Vdc Coil, Bus Wire	3 Solder Connection	2 3-Hole Flange
	3 26.5Vdc Coil, Bus Wire		4 Standard Flange

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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