

# R43 SERIES

## High Voltage Relays

### 10kV SYSTEM VOLTAGE

*Make & Break Load Switching*



### FEATURES

- SPST-NO and SPST-NC
- Vacuum sealed ceramic
- Suitable for RF applications
- Tungsten contacts for load switching
- Mountable in any orientation
- Meets RoHS 2011/65/EU

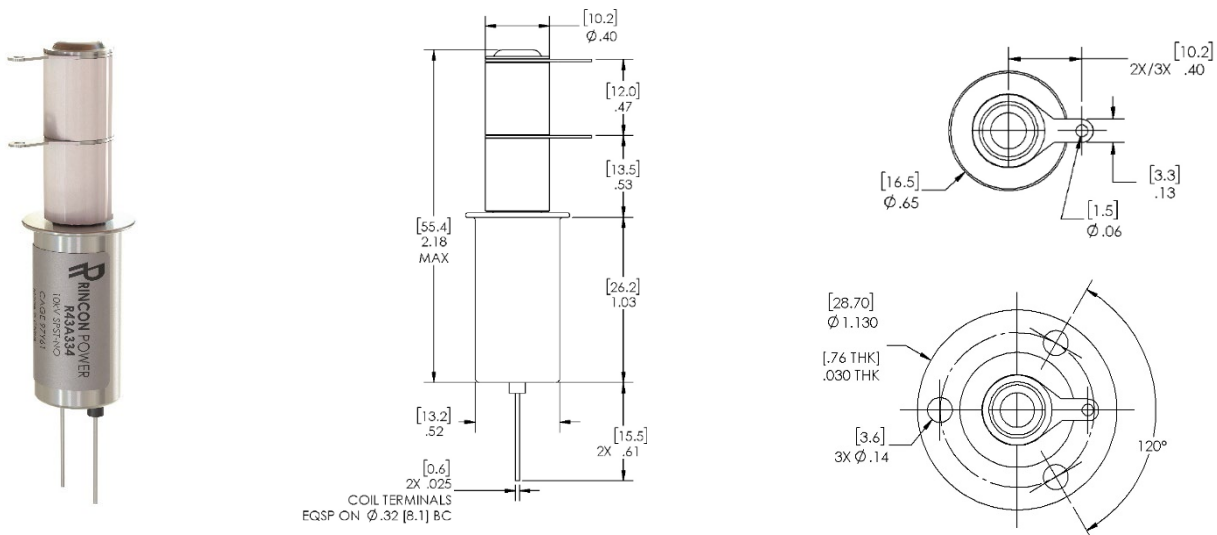


## PERFORMANCE

**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)	10 kV dc or 60Hz 7kV dc at 2.5 MHz 6kV dc at 16 MHz 4kV dc at 32 MHz
Test Voltage (Peak, between Contacts and Contacts to Base) (Max Leakage Current: 15µA)	11kV dc or 60Hz
Continuous Current, Max DC or 60Hz	25A
Continuous Current, Max 2.5 MHz	20A
Continuous Current, Max 16 MHz	13A
Continuous Current, Max 32 MHz	10A
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	28 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 1.0-10
Coil Resistance	70Ω 290Ω

## PRODUCT DIMENSIONS [mm]



## ORDERING KEY

**TABLE 2. PRODUCT NOMENCLATURE**

Series	Contact Arrangement	Coil	High Voltage Connection	Mounting
R43	<b>A</b> SPST Normally Open	<b>2</b> 12Vdc Coil, Bus Wire	<b>3</b> Solder Connection	<b>2</b> 3-Hole Flange
	<b>B</b> SPST Normally Closed	<b>3</b> 26.5Vdc Coil, Bus Wire		<b>4</b> 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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