

# R41 SERIES

## High Voltage Relays

**5kV SYSTEM VOLTAGE**

*Make & Break Load Switching*



### FEATURES

- SPST-NO and SPST-NC
- Vacuum sealed ceramic
- Tungsten contacts for load switching
- Compact design
- Suitable for RF applications
- High current carry, low current leakage
- Designed to meet requirements of MIL-R-83725
- Mountable in any orientation
- Meets RoHS 2011/65/EU

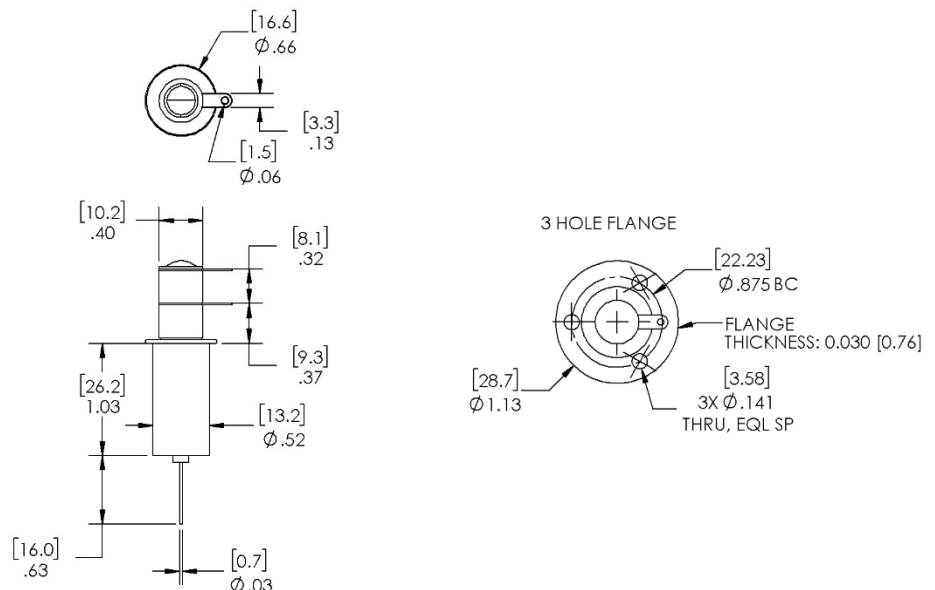


## PERFORMANCE

**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)	5.0 kV dc or 60Hz 4.5 kV dc at 2.5 MHz 3.5 kV dc at 16 MHz 2.8 kV dc at 32 MHz
Test Voltage (Peak, between Contacts and Contacts to Base) (Max Leakage Current: 15µA)	6 kV 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 (55-2,000Hz)	10G
Operating Temperature	-55°C to 125°C
Ingress Protection	Hermetic, exceeds IP67 and IP6K9
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
R41	A SPST-Normally Open	2 12Vdc Coil, Bus Wire	3 Solder Connection	2 3-Hole Flange
	B SPST- Normally Closed	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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