

# R9 SERIES

## High Voltage Relays

**15kV SYSTEM VOLTAGE**

*Make and Break Load Switching*



### FEATURES

- Form C, SPDT
- Vacuum sealed ceramic
- Low contact resistance
- 75A Continuous current carry
- Molybdenum / Copper contacts
- Threaded HV Connections
- Compact design
- Flange mounting
- Designed for high power DC or RF applications
- Meets RoHS 2011/65/EU

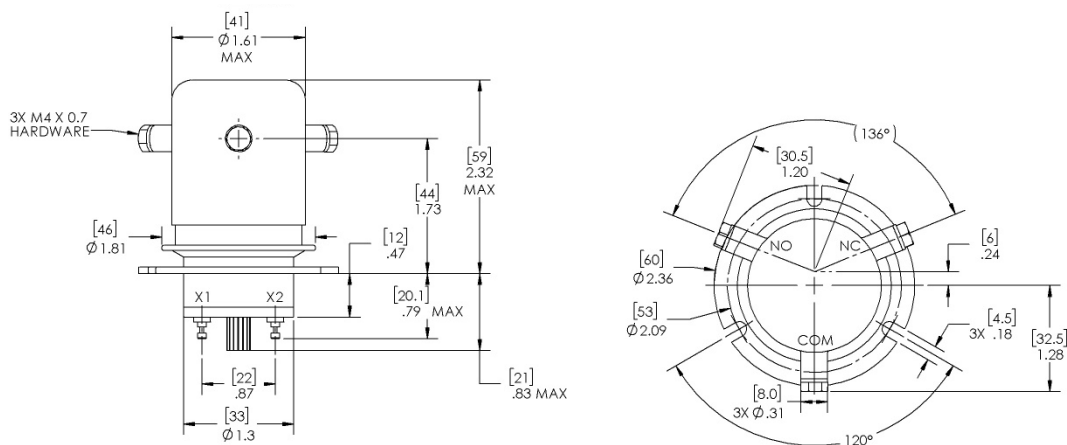


## PERFORMANCE

**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)	15kV dc or 60Hz 13kV at 2.5 MHz 10kV at 16 MHz 8kV at 32 MHz
Test Voltage (Peak, between Contacts and Contacts to Base) (Max Leakage Current: 15µA)	20kV dc or 60Hz
Continuous Current DC or 60Hz	75A
Continuous Current 2.5 MHz	35A
Continuous Current 16 MHz	22A
Continuous Current 32 MHz	17A
Capacitance – Across Open Contacts	3.0 pF
Capacitance – Contacts to Ground	3.5 pF
Load Switching (Make and Break)	(Consult Factory)
Coil Hi-Pot (V RMS, 60Hz)	500V
Contact Resistance (Max)	0.01 Ω @ 1A
Operate Time (Max, incl bounce)	30 ms
Release Time (Max)	8 ms
Shock - Operating, 1/2 Sine, 11ms	50G
Vibration 55-500Hz Peak)	10G
Operating Temperature	-55°C to 125°C
Mechanical life	1,000,000 cycles
Weight	290 g
COIL (25° C)	MEASURE
Nominal Voltage (Vdc)	26.5
Pick-up Voltage, Max (Vdc)	16
Drop-out Voltage (Vdc)	1.0-10
Coil Resistance (±10%)	190Ω

## PRODUCT DIMENSIONS [mm]



## ORDERING KEY

**TABLE 2. PRODUCT NOMENCLATURE**

Series	High Voltage Connection	Mounting	Coil
<b>R9</b>	<b>W</b> = Screw	<b>F</b> = Flange	<b>Blank</b> = 26.5Vdc

## 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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