



# RH9A Series

## High resistance, high voltage decade resistance box with SP1 switch

Designed using the Cropico high quality SP1 switch combined with specially selected resistors, this range of high ohm resistance decades is ideal for the calibration of insulation test sets having a voltage rating up to 5kV. Housed in a rugged carrying case and available in either 3, 6, or 9 decades the RH9A series covers the range 1 kilo ohm to 1 tera ohm and is equally at home in the laboratory workshop or field application. A single decade unit is also available with 10 switched values from 1 kilo ohm to 1 tera ohm.

Supplied complete with high voltage test leads 1 metre in length and calibration certificate.

### Key Features

- 1, 3, 6 & 9 decades available
- Range 1 kilo ohm to 1 tera ohm
- Max Voltage 5kV
- Accuracy  $\pm 0.1\%$
- Portable case



[www.seaward.co.uk/RH9A](http://www.seaward.co.uk/RH9A)

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## Technical Specification

### SPECIFICATIONS: RH9A

RH9A-1	RH9A-2	RH9A-3	RH9A-4	Decade	Accuracy @ Certified Voltage 1Kv Max	Typical Voltage Coeff	Max V/Step	Power Rating	Temp Coeff
	■		■	10 x 1k $\Omega$	$\pm 0.1\%$	<1ppm/V	30V	1 watt	$\pm 50$ ppm / $^{\circ}$ C
	■		■	10 x 10 $\Omega$	$\pm 0.1\%$	<1ppm/V	100V	1 watt	$\pm 50$ ppm / $^{\circ}$ C
	■		■	10 x 100k $\Omega$	$\pm 0.1\%$	<1ppm/V	300V	1 watt	$\pm 50$ ppm / $^{\circ}$ C
	■	■	■	10 x 1M $\Omega$	$\pm 0.1\%$	<1ppm/V	350V	1 watt	$\pm 50$ ppm / $^{\circ}$ C
	■	■	■	10 x 10M $\Omega$	$\pm 1\%$	1ppm/V	3,500V	1.5 watt	$\pm 100$ ppm / $^{\circ}$ C
	■	■	■	10 x 100M $\Omega$	$\pm 1\%$	1ppm/V	4,000V	1.5 watt	$\pm 100$ ppm / $^{\circ}$ C
■		■	■	10 x 1G $\Omega$	$\pm 1\%$	1ppm/V	4,000V	3.5 watt	$\pm 100$ ppm / $^{\circ}$ C
■		■	■	10 x 10G $\Omega$	$\pm 1\%$	1ppm/V	5,000V	3.5 watt	$\pm 250$ ppm / $^{\circ}$ C
■		■	■	10 x 100G $\Omega$	$\pm 2\%$	1ppm/V	5,000V	1.3 watt	$\pm 2,000$ ppm / $^{\circ}$ C

### SPECIFICATIONS: RH9A5

Value	Accuracy @ Certified Voltage 1Kv Max	Typical Voltage Coeff	Max V/Step	Power Rating	Temp Coeff
1k $\Omega$	$\pm 0.1\%$	<1ppm/V	30V	1 watt	$\pm 50$ ppm / $^{\circ}$ C
10k $\Omega$	$\pm 0.1\%$	<1ppm/V	100V	1 watt	$\pm 50$ ppm / $^{\circ}$ C
100k $\Omega$	$\pm 0.1\%$	<1ppm/V	300V	1 watt	$\pm 50$ ppm / $^{\circ}$ C
1M $\Omega$	$\pm 0.1\%$	<1ppm/V	350V	1 watt	$\pm 50$ ppm / $^{\circ}$ C
10M $\Omega$	$\pm 1\%$	1ppm/V	3,500V	1.5 watt	$\pm 100$ ppm / $^{\circ}$ C
100M $\Omega$	$\pm 1\%$	1ppm/V	4,000V	1.5 watt	$\pm 100$ ppm / $^{\circ}$ C
1G $\Omega$	$\pm 1\%$	1ppm/V	5,000V	3.5 watt	$\pm 100$ ppm / $^{\circ}$ C
10G $\Omega$	$\pm 1\%$	1ppm/V	5,000V	3.5 watt	$\pm 250$ ppm / $^{\circ}$ C
100G $\Omega$	$\pm 2\%$	25ppm/V	5,000V	1.3 watt	$\pm 2000$ ppm / $^{\circ}$ C
1T $\Omega$	$\pm 2\%$	25ppm/V	5,000V	1.3 watt	$\pm 2000$ ppm / $^{\circ}$ C

#### Weight

RH9A 8.8kg  
 RH9A-1 7kg  
 RH9A-2 8kg  
 RH9A-3 8kg  
 RH9A-5 0.8kg

#### Size

RH9A 460mm x 380mm x 160mm (W H D) approx  
 RH9A-1 460mm x 380mm x 160mm (W H D) approx  
 RH9A-2 460mm x 380mm x 160mm (W H D) approx  
 RH9A-3 460mm x 380mm x 160mm (W H D) approx  
 RH9A-5 220mm x 110mm x 90mm (W H D) approx

Rev 2