

# RBC

## High accuracy decade boxes with versatile wide ohm range

The RBC Series is a robust range of high dissipation resistance decades available in 5 or 6 decade versions and suitable for applications where reasonably precise and stable adjustable loads are required.

Constructed using the same high quality components as our other resistance decades and housed in a light alloy ventilated case, the RBC Series will withstand the most arduous use and give many years service. All parts are fully serviceable and can be repaired in our workshop should the more enthusiastic user damage the units with high overloads.

### Technical Specifications

RBC5		RBC6	Decade	Accuracy	Current Max mA
A	B	A			
✓		✓	10 x 0.1Ω	5%	7000
✓	✓	✓	10 x 1Ω	5%	2200
✓	✓	✓	10 x 10Ω	5%	700
✓	✓	✓	10 x 100Ω	5%	220
✓	✓	✓	10 x 1kΩ	5%	70
	✓	✓	10 x 10kΩ	5%	22

#### Calibration

Calibration certificates including UKAS traceable are available on request

#### Switches

Contact material gold plated brass  
Contact resistance <5mΩ  
Insulation resistance (all paths)>10GΩ

#### Resistors

##### Temperature Co-efficient

0.1Ω: <10ppm/°C  
1Ω, 10Ω: <400ppm/°C  
100Ω, 1KΩ, 10KΩ:<200ppm/°C

#### Full Load Stability

<5%, 70°C, 1000 hours

#### No Load Stability

<1%, 20°C, 1 year

#### Temperature range

0°C to + 70°C

#### Power Rating

5W per resistor

#### Maximum Working Voltage

70VDC/33Vrms

### Key Features

- 5 and 6 decades available
- High dissipation
- Max power 5W per coil
- Accuracy 5%
- 0.1Ω to 111,111Ω
- Fully serviceable
- Special model for insulation simulation

### Ideal For

- Engineering departments
- Laboratories/workshops
- Calibration houses

### General Specifications

#### Dimensions

5 Dial Box - 390 x 105 x 130mm / 15 x 4.1 x 5.1" (w x h x d) approx  
6 Dial Box - 450 x 105 x 130mm / 18 x 4.1 x 5.1" (w x h x d) approx

#### Mass

5 Dial Box - 3.0kg / 7lbs  
6 Dial Box - 3.5kg / 8lbs

#### Services

1 year warranty (subject to product registration with Seaward. Visit [www.seaward.co.uk/register-product](http://www.seaward.co.uk/register-product))

Service and calibration by Calibrationhouse.

Go to [www.calibrationhouse.com](http://www.calibrationhouse.com) for more information.

#### Part Numbers

RBC5-A	930109
RBC5-B	930149
RBC6-A	930143



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

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