

# HIGH ACCURACY HIGH CURRENT 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.

| KEY FEATURE                             | RBC |
|---|-----|
| 5 and 6 Decades available               |     |
| High dissipation                        |     |
| 5 Watts per coil                        |     |
| Accuracy 5%                             |     |
| 0.1 ohm to 111,111 ohm                  |     |
| Fully serviceable                       |     |
| Special model for insulation simulation |     |
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# **RBC SPECIFICATIONS**

| Model  | Decades | Total Resistance | Resolution | Resistance per Steps $\Omega$ | Accuracy % | Max Current<br>in Amps |
|--------|---------|------------------|------------|-------------------------------|------------|------------------------|
| RBC5-A | 5       | 11,111Ω          | 0.1Ω       | 0.1                           | ±5%        | 7                      |
| RBC5-B | 5       | 111,110 Ω        | 1Ω         | 1                             | ±10%       | 2.2                    |
| RBC6-A | 6       | 111,111Ω         | 0.1Ω       | 0.1                           | ±10%       | 7                      |

## Calibration

Calibration certificates including UKAS traceable are available on request

## **Switches**

Contact material gold plated brass

Contact resistance = 5 milli ohm

Insulation Resistance (all paths = 10 giga ohm)

Proof voltage 1kV

#### **Resistors**

## Temperature Co-efficient:

±3ppm / +20°C to +85°C ±5ppm maximum over -55°C to

+ 125°C 0.1, 0.01, and 0.001 dials 10ppm/°C

## Full Load Stability:

±35ppm/10,000 hours

±50ppm/26,000 hours

## No Load Stability:

±25ppm/10,000 hours

±35ppm/26,000 hours

## Over full temperature range:

-50°C to +125°C

## Power Rating:

0.33 watt (+85°C) 0.25 watt (+110°C)

## Maximum Continuous Working Voltage:

Up to 250V dc

#### Noise:

Essentially non-measurable <1.5 mV/°C

## Thermal E.M.F:

<0.4mV/°C typical

## Encapsulation:

Moulded epoxy

## Windings:

Exclusive 'air cushioned' technique provides virtually stressless elements for improved performance. Non inductively wound. Direction of winding reversed at half turns point

# Weight

5 Dial Box - 3.0kg

6 Dial Box - 3.5kg

## Size

5 Dial Box - 390mm x 105mm x 130mm (W H D) approx

6 Dial Box - 450mm x 105mm x 130mm (W H D) approx



205 Westwood Ave Long Branch, NJ 07740 1-877-742-TEST (8378) Fax: (732) 222-7088 salesteam@Tequipment.NET







