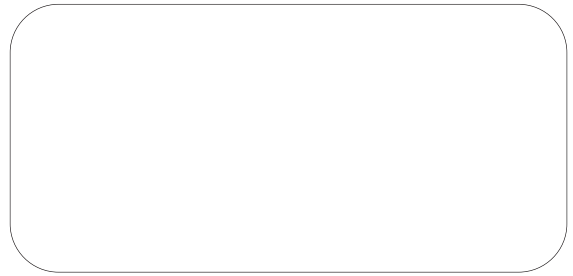


RBC

**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	■



RBC SPECIFICATIONS

Model	Decades	Total Resistance	Resolution	Resistance per Steps Ω	Accuracy %	Max Current in Amps
RBC5-A	5	11,111 Ω	0.1 Ω	10	$\pm 5\%$	0.7
RBC5-B	5	111,110 Ω	1 Ω	1	$\pm 10\%$	2.2
RBC6-A	6	111,111 Ω	0.1 Ω	0.1	$\pm 10\%$	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:

$\pm 3\text{ppm} / +20^\circ\text{C}$ to $+85^\circ\text{C}$ $\pm 5\text{ppm}$ maximum over -55°C to $+125^\circ\text{C}$ 0.1, 0.01, and 0.001 dials 10ppm/ $^\circ\text{C}$

Full Load Stability:

$\pm 35\text{ppm}/10,000$ hours

$\pm 50\text{ppm}/26,000$ hours

No Load Stability:

$\pm 25\text{ppm}/10,000$ hours

$\pm 35\text{ppm}/26,000$ hours

Over full temperature range:

-50°C to $+125^\circ\text{C}$

Power Rating:

0.33 watt ($+85^\circ\text{C}$) 0.25 watt ($+110^\circ\text{C}$)

Maximum Continuous Working Voltage:

Up to 250V dc

Noise:

Essentially non-measurable <1.5 mV/ $^\circ\text{C}$

Thermal E.M.F.:

$<0.4\text{mV}/^\circ\text{C}$ 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