

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	0.1	$\pm 5\%$	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