



# RBB SPECIFICATIONS

RBB5				RBB6					Decade	Accuracy	Current Max mA
B	C	D	E	B	C	D	E	F			
				■					10 x 0.001Ω	± 2%	2000
■				■	■				10 x 0.01Ω	± 1%	2000
■	■			■	■	■			10 x 0.1Ω	± 0.5%	2000
■	■	■		■	■	■	■		10 x 1Ω	± 0.2%	600
■	■	■	■	■	■	■	■	■	10 x 10Ω	± 0.05%	200
■	■	■	■	■	■	■	■	■	10 x 100Ω	± 0.05%	60
	■	■	■		■	■	■	■	10 x 1kΩ	± 0.05%	20
		■	■			■	■	■	10 x 10kΩ	± 0.05%	6
			■				■	■	10 x 100kΩ	± 0.1%	2
								■	10 x 1MΩ	± 0.1%	0.3

Model	No. Decades	Total Resistance	Resolution	Sutable for Pt100 Simulation	Resolution °C when Simulating Pt100	Residual Resistance
RBB5-B	5	1,112.1Ω	0.01	■	0.025	1Ω
RBB5-C	5	11,111Ω	0.1	—	—	0.012Ω
RBB5-D	5	111,110Ω	1	—	—	0.012Ω
RBB5-E	5	1.1111MΩ	10	—	—	0.012Ω
RBB5-F	5	11,111Ω	100	—	—	0.012Ω
RBB6-B	6	1,112.11Ω	0.001	■	0.0025	1Ω
RBB6-C	6	11,112.1Ω	0.01	■	0.025	1Ω
RBB6-D	6	111,111Ω	0.1	—	—	0.013Ω
RBB6-E	6	1.11111MΩ	1	—	—	0.013Ω
RBB6-F	6	11.1111MΩ	10	—	—	0.013Ω

## Calibration

Calibration certificates including UKAS traceable are available on request

## Switches

Contact material gold plated brass  
 Contact resistance = 5 Mohm  
 Insulation Resistance (all paths = 10Gohm)  
 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:

70V dc / 33Vrms

### Noise:

Essentially non-measurable <1.5µV

### Thermal E.M.F.:

<0.4µV

### 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

RBB5 - 0.5kg

RBB6 - 0.6kg

## Size

350mm x 100mm x 80mm (W H D) approx