

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 | Suitable 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 Mega 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

RBB5 - 0.5kg

RBB6 - 0.6kg

Size

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



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