

Decade Resistor Box



- Precision wire-wound resistor with non-inductive winding
- Metal case
- Low and stable zero resistance
- Excellence stability and reliability (TCR <10ppm/°C)
- Accuracy better than 0,02% or 0,1%
- High insulation resistance
- Two-terminal connection with ground
- Good frequency characteristics

Technical Data

Accuracy, as resistance variation in respect to zero position:

- $\pm 0.02\% + 0.0025$ ohm for each selector
- $\pm 0.1\% + 0.0025$ ohm for each selector

Thermal contact e.m.f.:

lower than 0.03 μ V, for 1°C variation in ambient temperature

Contact resistance stability:

0.001 ohm for each decade

Insulation voltage:

about 1000V, at atmospheric pressure

Initial insulation voltage:

higher than 10.000 Mohm

Output terminals:

two terminals, plus earth

Case:

light alloy metal case, silkscreened front panel, rubber feet

Nominal load current as per table herebelow:

Decade (ohm)	Nominal current for each decade
0.01	5
0.1	1.6
1	0.5
10	0.16
100	0.05
1.000	0.016
10.000	0.005
100.000	0.0016

When a current, with maximum value as specified in the table, passes in the decade resistors, the temporary variation of the resistance is lower than the stated accuracy.

A current higher than the given nominal values, and for a long period, causes permanent damages.

