

Resistance Coils

Standard



EM2702-002 through EM2709-001 1% Accuracy

Description:

This sheet covers all models of standard resistance coils. They are designed to be used as a standard resistor in circuits of Wheatstone Bridge and similar.

The resistance coil is housed in a simple transparent plastic housing with a screw top lid. The resistance is wound, stretched and soldered directly to the two nickel plated brass terminal stems. Connections to circuits are made from insulated 4mm socket head spin free terminals.

For excellent stability, the resistance wire used is 'Constantan' or 'Advance', which is a copper/nickel alloy having an almost zero change in resistance with temperature. High value standard resistors may be constructed differently but their accuracy and dissipation is similar.

Each resistor can dissipate about 4 watts continuously or about 10 watts for about 10 seconds. During an experiment, the voltage applied to any resistor must relate to the dissipation permitted. Take care in selecting resistances and voltages being applied.

Standard Resistors:

The 8 Resistance Values Are:

EM2702-002 0.5 ohm	EM2705-002 5.0 ohm	EM2708-001 50 ohm
EM2703-002 1.0 ohm	EM2706-002 10 ohm	EM2709-001 100 ohm
EM2704-002 2.0 ohm	EM2707-001 20 ohm	

Note:

They are not designed to be a high power load resistor.

Caution:

The low cost housings are polystyrene and will damage if subject to excessive heat or solvents.

Dissipation:

4 watts continuous

Accuracy:

Within +/- 1% of marked value.

Values:

Resistors of any non-standard value can be manufactured to special order.

Height: 111mm	Diameter: 55mm	Weight: 60g
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Designed and Manufactured in Australia

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