

Resistor Assortment Books (1/4W Metal Film)

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | Electronics & Prototyping

Resistor books hold 1/4 W metal film resistors sorted by value in labelled pockets, from 10 ohm to 1 M ohm, covering the E12 range every circuit needs. A sorted book beats digging through mixed bin chaos.

Key Features

- E12 range 10-1 M ohm
- 1/4 W metal film
- 1% or 5% tolerances
- Labelled pocket books
- 100 or more per value

Typical Uses in the Workshop

- Limit LED and transistor base currents
- Set divider and bias voltages
- Build timing and filter circuits
- Teach resistor colour codes

Safe Operation

1. Read the colour bands or meter the value
2. Select from the labelled pocket
3. Check the wattage for the circuit
4. Fit with the leads trimmed
5. Test the circuit value with a meter

SAFETY NOTES

- Resistors can overheat - check the wattage
- Do not bend leads at the body
- Keep solder away from the body film
- Store the book closed and dry
- Do not rely on colour when values matter - meter first

Maintenance & Consumables

- Keep the pockets sorted
- Restock depleted values
- Protect from heat and moisture
- Use a meter to verify mixed stock
- Close the book when stored

Specification & Buying Notes

1/4 W metal film assortments have stable values and tolerances. Quality books hold the values securely; sorting trays beat loose bags. Two books cover a class set.