



Providing Excellence in Science Education

IPC Irwin Capacitor Substitution Box

Part Number IPC-5861-X

User Instructions



INTRODUCTION.

The IPC Irwin Capacitor Substitution Box has been designed as a versatile and easy to use adjustable dielectric capacitor and is ideal for demonstrating the principles capacitance in electronics, such as timing circuits, supply smoothing and oscillators etc.

DESCRIPTION.

The IPC Irwin Capacitance Substitution Box provides the easy selection of 12 industry preferred value capacitors, ranging from 100pF to 0.47μF.

The values range from: 100pF, 220pF, 470pF, 1nF, 2.2nF, 4.7nF, 10nF, 22nF, 47nF, 0.1μF, 0.22μF and 0.47μF. All the capacitors offer a maximum voltage rating of 50V (AC/DC), with actual capacitance value tolerances of ±5% to ±10%. The unit is housed in a robust ABS plastic case with a rotary selector switch and a pair of 4mm standard sockets.

INSTRUCTIONS.

Simply connect your 4mm test leads to the 4mm sockets and adjust the rotary switch to the capacitance value required, **note:** all the capacitors are dielectric, so polarity is not an issue.

SPECIFICATIONS.

Dimensions = 75 x 100 x 40mm overall
Mass = 0.15kg

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Capacitance Range = 100pF 0.47uF
Capacitance Values = 100pF, 220pF, 470pF, 1nF, 2.2nF, 4.7nF, 10nF, 22nF, 47nF, 0.1μF, 0.22μF and 0.47μF
Capacitance Type = Dielectric (non-polarity)
Voltage Rating = 50V maximum (AC/DC)
Accuracy Range = ± 5.0% to ± 10.0%

Please Note: This Equipment is for Education, Training, or research Purposes Only.

Thank you for choosing this IPC Irwin product, which has specifically been designed for education and we know it will bring you good service long into the future. This is just one product of a wide range of UK designed and manufactured products to enhance a STEM education. Please see www.ipcirwin.com website for more details on the products and service we provide to support teaching and learning in science and technology.

IPC Irwin also provide Portable Appliance Testers and a Calibration service, for more details please go to www.ipcirwin.com or call our sales and technical support line on 015395 58555.



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