

4. User manual

CALIBRATING THE TESTER

Before you can start testing components, you will have to calibrate the tester. What you'll need is a capacitor with a capacity between 100nF and 20 μ F.

Then follow the calibration procedure below:

1. Connect the 3 probes together.
2. Press the button on the tester and immediately press it again if you see "Selftest mode" on the screen. If successful, you should see "R0=".
3. When you "isolate Probes" appears on the screen, disconnect all the probes.
4. When you see "1 -||-3 > 100nF" appear on the screen, connect the capacitor to probes 1 and 3.
5. After a while, the calibration should end with success.

CONNECTING A COMPONENT

Connecting a component is easy; simply connect the leads of a component to the connectors. The order/polarity doesn't matter because the tester will figure this out on its own.

When testing a component, make sure that you do not touch the component during the test and that it is placed on a non-conductive pad.

EXTRA FEATURES

You can access the extra features by long pressing the button to enter the menu.

f-Generator

By using the additional "f-Generator" (frequency generator) function, the selectable frequencies can be switched with key presses. With a long key press (> 0.8s) you will stop the frequency generator and return to the function menu.

10-bit PWM

The additional "10-bit PWM" (Pulse Width Modulation) function generates a fixed frequency with selectable pulse width at the pin TP2. With a short key press (< 0.5s) the pulse width is increased by 1%, with a longer key press the pulse width is increased by 10%. If 99% is overstepped, 100% is subtracted from the result. You can exit this mode with a very long key press (> 1.3s).

C+ESR@TP1:3

The additional "C+ESR@TP1:3" function selects a stand-alone capacity measurement and an ESR (Equivalent Series Resistance) measurement at the test pins TP1 and TP3. Capacities of 2 μ F up to 50mF can be measured.

In most cases, the capacitor can be measured "in circuit" without previous disassembling because the measurement voltage is only about 300mV. The series of measurements can be stopped with a long key press.

Switch off

Switch off the component tester by selecting 'Switch off' in the menu.

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