



BRIDGE CIRCUITS BOARD FOR RLC MEASUREMENT

DL 3155E64A1



The **DL 3155E64A1** is a set of bridges, usually used as **auxiliary board** with **DL 3155E64** “TRANSMISSION LINES BOARD”, to measure the impedance characteristics (R, L and C) of a real transmission line.

It is composed of two bridges, one in **DC (Wheastone bridge)** used to measure the value of an unknown resistance, and another in **AC** that can be cabled as **Maxwell bridge** or **Wien bridge** to measure an unknown inductance or capacitance respectively.

The board needs to be supplied with an external DC voltage +15V and -15V and it includes, beside the AC and DC bridges, the following:

- a $0 \div 5V$ DC power supply with a current limiter (to 100mA),
- a tone generator with sine wave output variable in width, amplitude, and frequency, to provide reference signals to the bridges,
- a simulated transmission line as RLC circuit to perform measurements,
- 2 BNC connectors suitable to connect probes during the study of the various circuits,
- 2 fine potentiometers and set of components as unknown components for test measuring.