

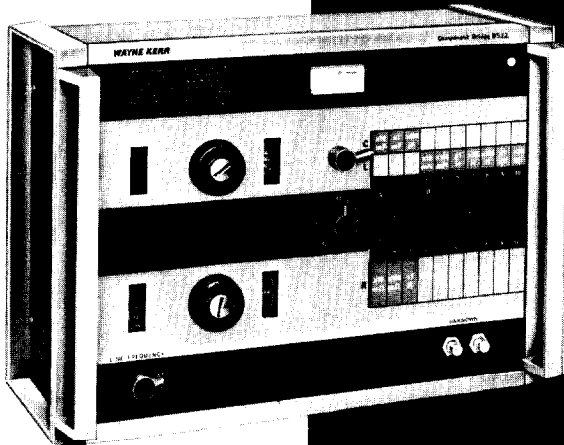


# Wayne Kerr CORPORATION

22 Frink Street, Montclair, New Jersey 07042 • (201) 746-2438

Innovations in Instrumentation ■ Measurement ■ Analysis ■ Synthesis ■ Control

## B522 Component Bridge



The B522 is an inexpensive instrument, measuring a very wide range of capacitance, inductance and resistance values to an accuracy of  $\pm 1\%$ .

Separate scales give direct readings of C/L and R simultaneously:

1pF — 5 Farads

1 $\mu$ H — 500kH

1m $\Omega$  — 1000M $\Omega$

Meter gives positive range selection and rapid nulling. Frequency of test signal can be doubled (50 to 100Hz, or 60 to 120Hz) at the turn of a switch, giving ideal measurement conditions for testing electrolytics. Remote measurements are no problem; and extended leads do not impair accuracy. The B522 features three-terminal facility for tests on components fitted to printed boards, molded in sub-units or wired in a chassis and four-terminal connections for accurate low-impedance measurements.

Functional lay-out of controls is another feature. The front panel gives range factors and concise operating procedure. The operator has merely to clip two leads to the Unknown, rotate the range switch for "on range" meter indication and adjust the C/L and R dials for a null. Settings of the dials are not inter-dependent; the scale in use is illuminated and an ambiguous balance condition cannot arise. Thus, even unskilled operators make rapid and accurate measurements.

Since C/L and R terms are measured simultaneously, the B522 can test complex impedances. Readout is automatically in the most convenient form for circuit analysis — as equivalent series components for impedances below 10 ohms, and parallel components above 10 ohms.

## SPECIFICATIONS

### Ranges and Accuracy:

R	10 $\Omega$	—	1000M $\Omega$	$\pm 1\%$	
	0.001 $\Omega$	—	10 $\Omega$	$\pm 5\%$	$\pm 0.001\Omega$
C	500pF	—	500 $\mu$ F	$\pm 1\%$	
	1pF	—	500pF	$\pm 2\%$	$\pm 1\text{pF}$
	500 $\mu$ F	—	5 Farads	$\pm 5\%$	
L	50mH	—	500kH	$\pm 1\%$	
	1 $\mu$ H	—	50mH	$\pm 5\%$	$\pm 1\mu\text{H}$

**Test Frequency:** 50 and 100Hz (or 60 and 120Hz)

**Power Requirement:** 100/110V or 230/250V, 50-60Hz  
Consumption approximately 10W

**Size and Weight:** 17 in. wide x 12 in. high x 8 in. deep (43 x 31 x 20 cm.)  
Approx. 20 lb. (9 kg.)

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