



DIGITAL LCRZ METER MODEL:VLCRZ



Inductance, Capacitance, AC/DC Resistance, Impedance, Transformation Ratio with winding polarity (TR JIG).

Simultaneous indication of value & tan delta . Ideal for testing Capacitors with high resolution of tan delta & ESR.

Optional RS232C port for PC control with control software for MULTI-TESTING.

Specially designed for manufacturers and users of small transformers. Ideal for automatic and fool proof testing of toroidal coils, Energy meter CT's, Bobbin coils, small transformers like SMPS, Telecom, Pulse Transformers (HYBRID, POT CORE, RM-CORE) etc.

DIGITAL LCRTZ METER SPECIFICATIONS:

- Measurement Freq.:** 50, 100, 500HZ, 1K, 5K,10 KHZ
- Measurement Voltage:** 0.1 V – 1.0 V RMS
- Display :** Separate displays for simultaneous display of Value with Units and D.F./Q.F.:
- 0.5" LED Display : 4dgt -Value, 2dgt -Units 4 dgt - D.F./Q.F/P.A. Plus LED status indication.
- Auto Ranging with Range-Hold facility.**
- Inductance (L):**0.1uH-200H
- Res. (Rac) & Impedance (Z):** 0.01 Ohm-200KOhm
- Trans.Ratio & POLARITY:** 0.001-1.0000 (±0.2%±1 dgt @ 1KHZ ±0.5%±1 dgt @ OTHER) With TRJIG (Supplied on option)
- Tan Delta (D.F.):** 0.0001-9.999 (±0.0002±1%rdg @ 1KHZ, ±0.001±2%rdg @ Other Freq.
- Quality Factor (Q.F.):**0.001- 999 (±2%±0.1Q @ 1KHZ, ±5%±0.5Q@ Other Freq. Q<100.0)
- Power requirement :** 230V±10% 50 HZ AC MAINS
- Measure Mode:** Series/Parallel EQ. Selectable.
- 4T or Kelvin Test:** For eliminating lead resistance/inductance.
- Capacitance(C):**0.1pF-2000uF
- Res. (Rdc):** 0.01Ohm-20KOhm

Unbalance Test (with PC control): This test calculates the percentage unbalance of the two tests. Unbalance of Inductance, Capacitance, Resistance and Impedance can be measured. If the individual readings are R1 and R2 then

$$UNBALANCE = \frac{(R1-R2) \times 100}{(R1+R2)}$$

S.L.No	TestName	MeasVal	DDPr	LimLow	HighLim
1	Rac 1-2	10.029n	5.9	10.1	10.1
2	Rac 2-3	100.02n	99.0	101.0	101.0
3	Rac 3-4	1.00102n	0.99	1.00	1.00
4	Rac 4-5	10.002n	5.9	10.1	10.1
5	Rac 5-6	10.022n	5.9	10.1	10.1
6	Rac 6-7	100.04n	99.0	101.0	101.0
7	Rac 7-8	1.00102n	0.99	1.00	1.00
8	Rac 8-9	10.002n	5.9	10.1	10.1
9	Rac 9-10	10.012n	5.9	10.1	10.1
10	Rac 10-11	100.03n	99.0	101.0	101.0
11	Rac 11-12	1.00102n	0.99	1.00	1.00
12	Rac 12-13	10.002n	5.9	10.1	10.1
13	Rac 13-14	10.011n	5.9	10.1	10.1
14	Rac 14-15	100.00n	99.0	101.0	101.0
15	Rac 15-16	1.00102n	0.99	1.00	1.00
16	Rac 16-17	10.002n	5.9	10.1	10.1
17	Rac 17-18	10.016n	5.9	10.1	10.1
18	Rac 18-19	100.01n	99.0	101.0	101.0
19	Rac 19-20	1.00102n	0.99	1.00	1.00
20	Rac 20-21	1.00102n	0.99	1.00	1.00

TEST OVER REPLACE COMPONENT AND Press/Click START TEST

RS232C Control :

(PC Control Software)

The instrument is controlled through external PC through RS232C port. The system software works on Windows platform. All the test results will be transferred to a **database files** with connected file name. The database table is compatible to fox-pro table. You can import these files to other softwares for creating graphs and other analysis.

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