



DE-5000

SPECIFICATIONS:

- **LCD Display** : Dual 19999/1999 display
- **Measuring rate** : 1.2 /second, nominal
- **Range** : Auto range
- **Overload** : "OL" Display On LCD
- **Low Battery** : "BAT" Display On LCD
- **Auto Power Off** : Approx 5 Minutes After
- **Battery** : 9V x 1
- **Safety standard** : IEC 61326-1 & IEC 61326-2-2

TEMP. / HUMIDITY:

- **Operation** :
0°C~50°C (32°F~122°F)
< 70% R.H. (no condensation)
- **Storage** :
-20°C~60°C (-4°F~140°F)
< 80% R.H. (no condensation)

DIMENSION & WEIGHT:

- 188(L)x95(W)x52(H)mm (7.4"x3.74"x2")
- Approx. 350g (excluding battery)

ACCESSORIES:

- Alligator test lead case(TL-21)1
- AC/DC Adaptor1
- Guard Line (TL-23)1
- Instruction manual1
- DC 9V Battery1

Additional Accessories for with USB Function -

- Optical IR to USB PC link.....1
- CD Rom (software).....1
- TL-22 SMD Tweezer.....1

FEATURES :

- **Auto L.C.R. check**
- 100 / 120 / 1k / 10k / **100k** Hz test frequency
- 20,000 / 2,000 counts display
- Backlight
- Ls / Lp / Cs / Cp / Rs / Rp / DCR with D/Q/θ/ESR measurement
- Relative mode
- Series / Parallel modes
- Components sorting function
- *Selectable tolerance ±0.25%, ±0.5%, ±1%, ±2%, ±5%, ±10%, ±20%, -20% +80%
- Low battery indication
- Safety standard : IEC 61326-1 & IEC 61326-2-2

MEASUREMENT RANGES: (23°C ± 5°C, 80% R.H. MAX.)

■ Resistance (Parallel / Series mode)

Range	Resolution	100/120Hz	1kHz	10kHz	100kHz
20.000Ω	0.001Ω	—	1.0%+3*	1.0%+3*	2.0%+3*
200.00Ω	0.01Ω	1.0%+3	0.3%+2	0.3%+2	0.6%+3
2.0000kΩ	0.0001kΩ	0.3%+2	0.3%+2	0.3%+2	0.6%+3
20.000kΩ	0.001kΩ	0.3%+2	0.3%+2	0.3%+2	0.6%+3
200.00kΩ	0.01kΩ	0.5%+2	0.5%+2	0.5%+2	1.0%+3
2.0000MΩ	0.0001MΩ	1.0%+3	1.0%+3	1.0%+3	—
(2.000MΩ)	0.001MΩ	—	—	—	2.0%+3*
20.000MΩ	0.001MΩ	2.0%+3*	2.0%+3*	—	—
(20.00MΩ)	0.01MΩ	—	—	2.0%+3*	—
200.0MΩ	0.1MΩ	2.0%+3*	2.0%+3*	—	—

* Do open/short calibration before measuring for above ranges with * to have better precision measurements.

■ DCR

Range	Resolution	Accuracy
200.00Ω	0.01Ω	1.0%+3*
2.0000kΩ	0.0001kΩ	0.2%+2
20.000kΩ	0.001kΩ	0.2%+2
200.00kΩ	0.01kΩ	0.5%+2
2.0000MΩ	0.0001MΩ	1.0%+3
20.000MΩ	0.001MΩ	2.0%+3*
200.0MΩ	0.1MΩ	2.0%+3*

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■ Capacitance (Parallel / Series mode)

Range	Resolution	100/120Hz	1kHz	10kHz	100kHz
200.00pF	0.01pF	—	—	1.2%+5*	2.0%+5*
2000.0pF	0.1pF	—	2.0%+3*	0.3%+2	0.6%+3
20.000nF	0.001nF	2.0%+3*	0.3%+2	0.3%+2	0.6%+3
200.00nF	0.01nF	0.3%+2	0.3%+2	0.3%+2	0.6%+3
2000.0nF	0.1nF	0.3%+2	0.3%+2	0.6%+2	2.0%+5*
20.000μF	0.001μF	0.3%+2	0.6%+2	1.2%+5*	—
(20.00μF)	0.01μF	—	—	—	3.0%+5 (100μF max.)*
200.00μF	0.01μF	0.6%+2	1.0%+3*	—	—
(200.0μF)	0.1μF	—	—	3.0%+5 (100μF max.)*	—
2000.0μF	0.1μF	1.0%+3*	—	—	—
(2000μF)	1μF	—	1.2%+3*	—	—
20.00mF	0.01mF	1.2%+3*	—	—	—

• If reading <2000, unit on display is pF

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■ Inductance (Parallel / Series mode)

Range	Resolution	100/120Hz	1kHz	10kHz	100kHz
20.000μH	0.001μH	—	—	—	2.5%+5*
200.00μH	0.01μH	—	—	1.2%+5*	0.6%+3
2000.0μH	0.1μH	—	2.0%+5*	0.6%+3	0.6%+3
20.000mH	0.001mH	1.2%+5*	1.0%+5*	0.3%+2	0.6%+3
200.00mH	0.01mH	0.3%+2	0.6%+3	0.3%+2	1.2%+5*
2000.0mH	0.1mH	0.3%+2	0.3%+2	0.6%+3	—
20.000H	0.001H	0.3%+2	0.6%+3	1.2%+5*	—
200.0H	0.1H	0.6%+3	1.2%+5*	—	—
2.000KH	0.001KH	1.2%+5*	—	—	—

• If reading <2000, unit on display is μH

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■ Accuracy v.s. Resistance (ZDUT)

	DCR	100/120Hz	1kHz	10kHz	100kHz
0.1~1Ω	1.2%+5*	1.2%+5*	1.2%+5*	1.2%+5*	2.5%+5*
1~10Ω	0.6%+3*	0.6%+3*	0.6%+3*	0.6%+3*	1.2%+5*
10~100kΩ	0.3%+2	0.3%+2	0.3%+2	0.3%+2	0.6%+3
100k~1MΩ	0.6%+3	0.6%+3	0.6%+3	0.6%+3	2.5%+5*
1M~20MΩ	1.2%+5*	1.2%+5*	1.2%+5*	2.5%+5*	100k~2MΩ
>20MΩ	2.5%+5*	2.5%+5*	2.5%+5*	—	—

* Do open/short calibration before measuring for above ranges with * to have better precision measurements.