

### Model KM 520B

#### FEATURES :

- Auto LCR smart check and measurement
- Data hold
- 19, 999 / 1, 999 counts dual LCD display
- Back light, full angle for LCD display
- **Basic accuracy** : 0.3% with resolution of 0.01%
- 4 - terminal measurement configuration
- Analog bar display
- Automatic power off
- Measurement frequency up to 100KHz
- Battery and external power supply
- Mini - USB interface (KM 520B only)
- Battery voltage indication.
- Sorting function
- Relative measurement



#### ELECTRICAL SPECIFICATIONS- KM 520B

#### Preliminary Data

|                   |         |   |                |
|-------------------|---------|---|----------------|
| Parameter         | Primary | DCR : DC resistance                         |                |
|                   |         | Ls / Cs : series inductance / capacitance   |                |
|                   |         | Lc / Cp : Parallel inductance / capacitance |                |
| Secondary         |         | : phase angle                               |                |
|                   |         | D : dissipation factor                      |                |
|                   |         | ESR : equivalent series resistance          |                |
|                   |         | Q : quality factor                          |                |
|                   |         | Rp : equivalent parallel resistance         |                |
| Measurement range | L       | 100 / 120                                   | 20mH ~ 20KH    |
|                   |         | 1KHz  | 2000 H ~ 2000H |
|                   |         | 10K   | 200 H ~ 20H    |
|                   | C       | 100 KHz                                     | 20 H ~ 200mH   |
|                   |         | 100 / 120                                   | 20nF ~ 20mF    |
|                   |         | 1 KHz                                       | 2000pF ~ 2mF   |
|                   |         | 10 K  | 200pF ~ 200 F  |
|                   |         | 100 KHz                                     | 200pF ~ 20 F   |
|                   | R       | 100 / 120                                   | 200 ~ 200M     |
|                   |         | 1 KHz                                       | 20 ~ 200M      |
|                   |         | 10 K  | 20 ~ 20M       |
|                   |         | 100 KHz                                     | 20 ~ 2M        |

|                       |             |  |                  |
|-----------------------|-------------|--|------------------|
| Measurement range     |             | DCR                                      | 200 ~ 200M       |
|                       | R           | D / Q                                    | 0.001 ~ 1999     |
|                       |             |  | 0.00° ~ ± 180.0° |
| Frequency             |             | 100 / 120 / 1K / 10K / 100KHz            |                  |
| Display               |             | Dual display + analog bar display        |                  |
| Test level            |             | 0.6Vrms                                  |                  |
| Range mode            |             | Auto and Hold                            |                  |
| Equivalent circuit    |             | Parallel and series                      |                  |
| Calibration function  |             | Open / Short                             |                  |
| Interface             |             | Mini - Usb                               |                  |
| Measurement speed     |             | Approx . 1.2 times / second              |                  |
| Measurement terminal  |             | 4 - terminal                             |                  |
| Basic accuracy        |             | 0.3%                                     |                  |
| Power                 |             | AAA * 6 battery or external power supply |                  |
| Auto power off        |             | 5 min (with batteries)                   |                  |
| Operating environment | temperature | 0°C ~ 40°C                               |                  |
|                       | humidity    | 90% RH (40°C, no condensation)           |                  |
| Storage Temperature   |             | -25°C ~ 50°C                             |                  |

#### Impedance accuracy Ae

The below - listed accuracies are guaranteed by the meter with normal use under the operating temperature of 18-28 and relative humidity less than 80%

| Z \ FREQ.   | 0.1 - 1    | 1 - 10     | 10 - 100k  | 100k - 1M  | 1M - 20 M             | 20M - 200 M | Remarks |
|-------------|------------|------------|------------|------------|-----------------------|-------------|---------|
| DCR         | 1.0% + 5 d | 0.5% + 3 d | 0.3% + 2 d | 0.5% + 3 d | 1.0% + 5 d            | 2.0% + 5 d  | D < 0.1 |
| 100 / 120HZ | 1.0% + 5 d | 0.5% + 3 d | 0.3% + 2 d | 0.5% + 3 d | 1.0% + 5 d            | 2.0% + 5 d  |         |
| 1kHz        | 1.0% + 5 d | 0.5% + 3 d | 0.3% + 2 d | 0.5% + 3 d | 1.0% + 5 d            | 5.0% + 5 d  |         |
| 10kHz       | 1.0% + 5 d | 0.5% + 3 d | 0.3% + 2 d | 0.5% + 3 d | 2.0% + 5 d            | N / A       |         |
| 100kHz      | 2.0% + 5 d | 1.0% + 5 d | 0.5% + 3 d | 1.0% + 5 d | 2.0% + 5 d (1M - 2M ) |             |         |

All Specifications are subject to change without prior notice