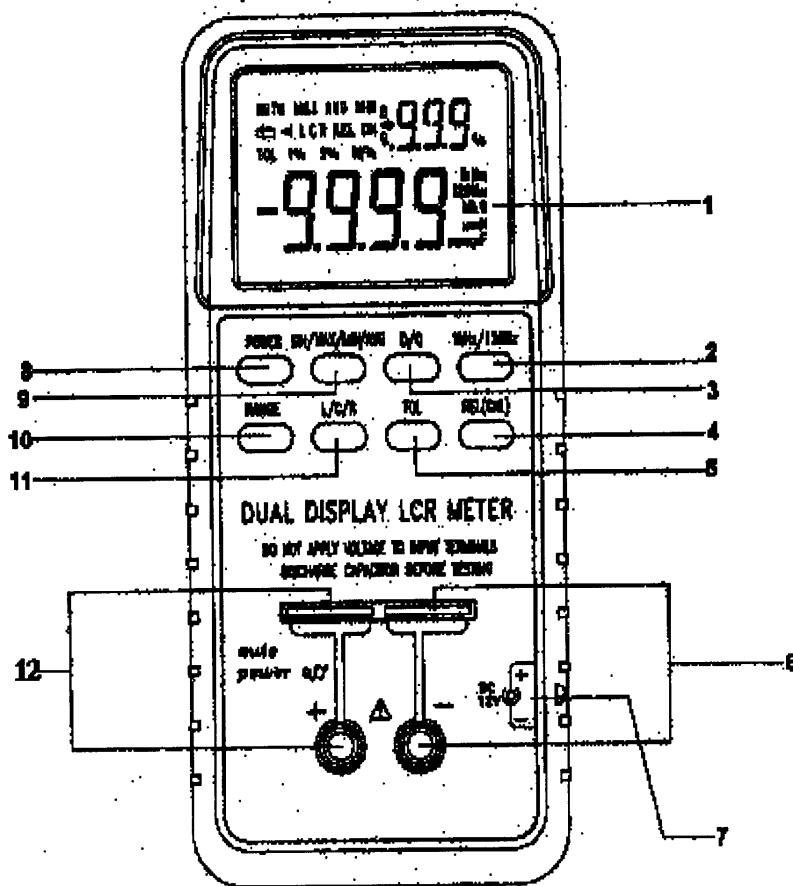


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REVISIONS				DOC. NO. SPC-F004 * Effective: 12/21/98 * DCP No: 680					
DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE	
		NOT Released	JWM	3/10/00					



Front Panel

1. LCD display
2. 1KHz/120Hz selection button
3. Dissipation and quality factor selection button
4. Relative mode and calibration selection button
5. Tolerance mode selection button
6. Input terminals and sockets
7. DC 12V adaptor inputs
8. Power on/off button
9. Data hold; Maximum, Minimum and Average reading selection button
10. Range selection button
11. Inductance, Capacitance and Resistance function selection button
12. Input terminals and sockets

SPC-F004.DWG

DISCLAIMER:
ALL STATEMENTS AND TECHNICAL INFORMATION CONTAINED HEREIN ARE BASED UPON INFORMATION AND/OR TESTS WE BELIEVE TO BE ACCURATE AND RELIABLE. SINCE CONDITIONS OF USE ARE BEYOND OUR CONTROL, THE USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR THE INTENDED USE AND ASSUME ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH.

TENMA®

*Unless Otherwise Specified:
Dimensions are shown for
reference only!*

DRAWN BY:	DATE:
Jeff McVicker	3/10/98
CHECKED BY:	DATE:
APPROVED BY:	DATE:

DRAWING TITLE:

Dual Display L/C/R Meter

SIZE DWG. NO.

A

72-960

ELECTRONIC FILE

66F3567.dwg

REV

A

SCALE: NTS

U.O.M.: INCHES [mm]

SHEET: 1 OF 3

General Specifications

Parameters Measured: L/C/R, D/Q

Measurement Circuit Mode:

1.Capacitance/Resistance Measurement

Defaults to parallel mode for all ranges

 Parallel measured mode

2. Inductance Measurement –

Defaults to series mode for all ranges

 Series measured mode

Both Series and Parallel mode data can be obtained through simple key operation

Displays :

L/C/R: Max display 9999 except 10mF(120Hz),
1mF(1kHz) measurement ranges with
max display 1999

D/Q: Max display 999 (AUTO RANGE)

Measurement Terminals: 2 terminals with sockets

Ranging Mode: Auto & manual

Test Frequency: 1kHz ~ 120Hz

Freq Accuracy: $\pm 0.01\%$ (1kHz = 1008.06Hz; 120kHz = 122.07Hz)

Measurement Rate: 1 measurement/second, nominal

Test Signal Level: 0.9 Vrms approx.

Response Time: Approx. 1 second/DUT(device under test)
(@ manual range)

Temperature Coefficient:

$0.05 \times (\text{Specified Accuracy})/^{\circ}\text{C}$ ($0^{\circ}\text{C} - <18^{\circ}\text{C}$ or $28^{\circ}\text{C} - 50^{\circ}\text{C}$)

Operation Temperature: 0°C to 40°C ; 0–70% R.H.

Storage Temperature: -20°C to $+50^{\circ}\text{C}$; 0–80% R.H.

SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	72-960	66F3567.dwg	A
SCALE: NTS		U.O.M.: INCHES [mm]	SHEET: 2 OF 3

Power Requirements

- 1) Battery: DC 9V Battery
- 2) Ext. DC Adaptor: DC 12Vmin–15Vmax (LOAD 50mA min)

Low Battery Indication : Approx. 6.8V

Power Consumption: Approx. 40 mA; 0.3mA Auto Power–off

Protective Fuse: 70mA fast–blow 250V AC (Please refer to Safety Information)

Auto Power-Off Time: Approx. 5 mins.

Dimensions: 37 mm(H) x 90 mm(W) x 192(L)

Weight: 390g

Standard Accessories: Test alligator clips (pair), battery (DC 9V), spare fuse (7mA/250V AC fast–blow) and operator manual

Electrical Specifications

Resistance

All accuracies are @ 23°C; <75% R.H.

Range	Max. Display	Accuracy		Specified Note
		Test Freq. 120Hz	Test Freq. 120Hz	
10MΩ	9.999M Ω	±(2%+8 counts) *(note 3)	±(2%+8 counts) *(note 3)	after open cal.
1MΩ	999.9kΩ	±(0.5%+5 counts)	±(0.5%+5 counts)	after open cal.
100kΩ	99.99kΩ	±(0.5%+3 counts)	±(0.5%+3 counts)	
10kΩ	9.999kΩ	±(0.5%+3 counts)	±(0.5%+3 counts)	
1kΩ	999.9Ω	±(0.5%+3 counts)	±(0.5%+3 counts)	
100kΩ	99.99Ω	±(0.8%+5 counts)	±(0.8%+5 counts)	after short cal.
10Ω	9.999Ω	±(1.2%+40 counts)	±(1.2%+40 counts)	after short cal.

NOTES:

1. This specification is based on the measurement performed at the test pocket
2. DUT & Test lead to be properly shielded to GND (DC "–") if necessary.
3. This specification is based on internal power (battery) operation.
4. All accuracies are @23°C ±5°C; <75% R.H.

SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	72–960	66F3567.dwg	A
SCALE: NTS		U.O.M.: INCHES [mm]	SHEET: 3 OF 3