

Ripple Current Tester

MODEL 11801

Key Features

- Patent designed four-wires series and parallel for measuring fixture to ensure ripple voltage and current measurement accuracy (in applying)
- Patent designed copper foil transmission test cable for reducing load effect cause by high frequency, to ensure ripple voltage and current measurement accuracy (in applying)
- Large LCD display (320x240 dot-matrix), with larger screen for reading the test result conveniently
- Computer digital setting input method, display setting condition and test value accurately
- Sine wave is generated by digital frequency synthesis with "high stability" and "high reliability" characteristics
- DC BIAS max. be able to adjust to 500V DC or 200mA range, high and low voltage capacitor are suitable
- When end the test, DUT capacitor automatic discharge to protect the operational personnel safety
- Capable of providing RS485 interface card and computer link
- Capable of adjusting VDC and Vpeak ripple voltage automatically to meet working voltage or rated voltage test conditions
- Capable of measuring up to 100kHz for 20 capacitors simultaneously



Chroma



Ripple Current Tester

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Chroma 11801 ripple current tester is the experience and technology accumulation for several years. According to JIS-C-5102 test method to design large LCD display and computer digital programmable precision measurement instrument, which aim at electrolytic capacitor, tantalum capacitor and solid-state capacitor manufacturers to execute life test instead of wasting time and complicated traditional operation method.

To simplify the operation setting procedure and automatic discharge function for ensuring the operational personnel safety, also connect with the computer through RS485 to record the related data of testing ripple current.

Chroma 11801 provides the measurement fixture for series and parallel, it improve the loss effectively as high frequency measurement cause by the test cable and fixture. Working voltage or rated voltage measurement specification too low will result in the manufacturer's verification invalid problem.

The precise measurement data and humanization operation is not only promotes reliability of life test but also assure product quality. It is the best choice in measurement.

Large LCD Display

Users can operate instrument easily with great view of setting functions and test result.



SPECIFICATIONS (15°C~35C RH≤70%)

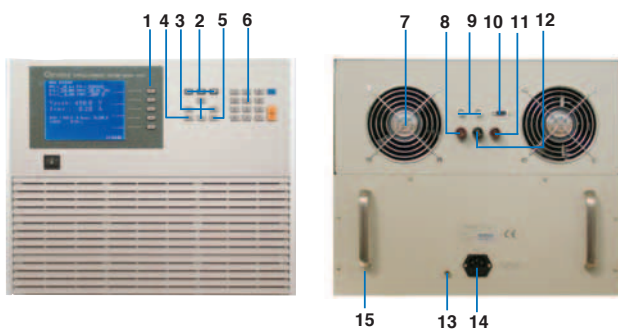
Model Number	11801 (20k~100kHz)
Ripple Frequency	
Range	20.000KHz~100.000KHz
Accuracy	± 0.01%
Ripple Current (rms)	
Output Rating	AC 10A MAX (Output copper foil wire less than 5m)
Accuracy/resolution	
0~0.199A	± (1%+ 5 counts)/1mA
0.20A~1.99A	± (1%+ 5 counts)/10mA
2.00A~10.00A	± (1%+ 5 counts)/100mA
Ripple Voltage (Vpeak)	
Output Rating	15Vrms maximum [Note 1]
Accuracy/resolution	
0.00V~1.999V	± (1%+ 20 counts)/1mV
2.00V~19.99V	± (1%+ 5 counts)/10mV
DC Bias (Vdc)	
Output Rating	500V or 200mA maximum
Accuracy/resolution	
0.00V~99.99V	±(0.2%+ 5 counts)/10mV
100.0V~500.0V	± (0.2%+ 5 counts)/100mV
Timer	
Timer	1 min~9999 hours, up/down mode
Protection	
OCP	Over 120% Setting Value, Short
Other	OTP, Over Load
Memory Storage	
Memory	10 groups
Ambient Temperature and Humidity	
Specification Range	15°C~35°C, ≤ 80% RH
Operable Range	0°C~45°C, ≤ 80% RH
Power Requirement	
Line Input	220V ± 10% 50/60Hz
Consumption	1000W max
General	
Dimension (W x H x D)	430 x 363.6 x 607.2 mm
Weight	≈70Kg

All specifications are subject to change without notice.

[Note 1]: At output terminal

Application

- (1) Electrolytic capacitor, tantalum capacitor and solid-state capacitor quality control and research development instruments.
- (2) Switching Power Supply filtering capacitor product verification.
- (3) PC main board and Converter filtering capacitor product verification.



Panel Description

- | | |
|--|--|
| 1.Function keys | 9. Ripple voltage (SENSE) measurement terminal of capacitor under test |
| 2.Menu keys | 10.RS-485 connection terminal |
| 3.Cursor keys | 11.Ripple current input terminal and DC high voltage output terminal (+) |
| 4.Start key | 12.DC high voltage output terminal (-) |
| 5.Stop key | 13.Grounding terminal |
| 6.Entry keys | 14.AC 220V power socket |
| 7.DC dissipation heat fan | 15.Handle |
| 8.Ripple current output terminal and DC high voltage output terminal (+) | |

Developed and Manufactured by :

CHROMA ATE INC.

致茂電子股份有限公司
HEAD OFFICE

66,Hwa-Ya 1st Rd., Hwa-Ya
Technical Park, Kuei-Shan
Hsiang, Taoyuan Hsien
333,Taiwan
Tel: +886-3-327-9999
Fax: +886-3-327-8898
http://www.chromaate.com
E-mail:chroma@chroma.com.tw

U.S.A.

CHROMA ATE INC.(U. S. A.)
7 Chrysler Irvine, CA 92618
Tel: +1-949-421-0355
Fax: +1-949-421-0353
Toll Free:+1-800-478-2026

Europe

CHROMA ATE EUROPE B.V.
Max Planckstraat 4
6716 BE Ede, The Netherlands
Tel: +31-318-648282
Fax: +31-318-648288

China

CHROMA ELECTRONICS (Shen Zhen) Co.,Ltd.
8F, No.4, Nanyou Tian An Industrial Estate,
Shenzhen, Cuangdong, China
PC: 518052
Tel: +86-755-2664-4598
Fax: +86-755-2641-9620

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