Ripple Current Tester

Model No. 11800/11801/11810

Ripple Current Tester
Model 11800/11801 CE
Model 11810

KEY FEATURES

- Digital constant current output and constant peak voltage output control function
- Four terminal contact test jig design, ensure accurate monitoring of voltage dropped on capacitors under test (patent pending)
- Paired cooper-foil wiring test cable to reduce voltage drop on the current driving loop and to ensure accurate monitoring of ac level dropped on capacitors under test (patent pending)
- 0-500 V DC bias voltage source, 0.3% basic accuracy
- 0.01~30A, 100Hz/120Hz/400Hz/1kHz AC ripple current source, (±0.5% reading+0.1% of range) basic accuracy (Model 11800)
- 0.01~10A, 20kHz~100kHz AC ripple current source, 2% basic accuracy (Model 11801)
- 0.1~10A, 20kHz~1MHz AC ripple current source (Model 11810)
- Monitoring software (option) for multiple Ripple Current Testers
- Lower power consumption and lower electricity cost
- Large LCD display (320 x 240 dot-matrix)
- Alarm for indicating of normal or abnormal test termination, Tested time will be recorded if the test is terminated abnormally. An automatic discharge is always performed after test termination
- Standard RS485 interface is provided for computer monitoring
- Optional 20-fixtures Series or Parallel test jigs
- Digital timer inside
- CE marking (Model 11800/11801)

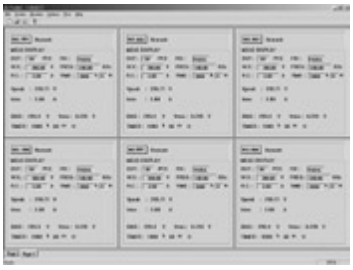
Model 11801

RS-485

The Chroma 11800/11801/11810 Ripple Current Tester is a precision tester designed for electrolytic capacitors load life testing. Provides constant ripple current output and constant peak voltage (Vpeak = Vdc + Vac_peak) output digital control function. Let load life testing for electrolytic capacitors becomes easier and more reliable. And, The Chroma 11800/11801/11810 use excellent output amplifier design technology to reduce power consumption and internal temperature rising. For long time testing requirement, it can reduce electricity cost and perform high stability. The Chroma 11800/11801/11810 is a just right test solution for electrolytic quality evaluation.

ORDERING INFORMATION

11800 : Ripple Current Tester 1kHz
11801 : Ripple Current Tester 100kHz
11810 : Ripple Current Tester 1MHz
A118004 : Series Test Fixture
A118005 : Parallel Test Fixture
A118010 : Monitoring Software for Model 11800/11801
A118028 : Series Test Fixture for Low Voltage
A118030 : PCB for SMD Capacitor



A118010 : Monitoring Software

SPECIFICATIONS				
Model		**11800**	**11801**	**11810**
Ripple Current Source				
Current Output Range		0.01~30A	0.01~10A	0.1~10A
Frequency		100Hz/120Hz/400Hz/1kHz ±0.1%	20kHz~100kHz	20kHz~1MHz
Accuracy *1	0.010A~0.199A	± (0.5% of reading + 0.1% of range)	± (3% + 0.005 A)	± (3% + 0.005 A) *2
	0.20A~1.99A		± (2.5% + 0.05 A)	± (2.5% + 0.05 A) *2
	2.0A~10A		± (2% + 0.2 A)	± (2% + 0.2 A) *2
	10.0A~30A		--	
Ripple Voltage Output Range		90Vrms / 10Arms, 30Vrms / 30Arms	15Vrms maximum	
DC Bias Voltage Source				
Voltage Output Range		DC 0 ~ 500V, ± (0.3% + 0.05V)		
Charge Current		200mA max.		
Signal Monitor Parameter Accuracy				
Irms (Ripple Current)	0.001A~0.199A	± (0.5% of reading + 0.1% of range)	± (2% + 0.005 A)	± (2% + 0.005 A) *2
	0.20A~1.99A		± (2% + 0.05 A)	± (2% + 0.05 A) *2
	2.0A~10A		± (2% + 0.2 A)	± (2% + 0.2 A) *2
	10.0A~30A		--	
Vpeak (Normally, set to capacitor rated voltage)		Vpeak =Vdc + Vac_peak		
Vdc (DC Bias Voltage)		± (0.3% + 0.05V)		
Vrms (Ripple Voltage)		0~1.99V, ± (0.3% of reading + 0.5% of range) 2.00~19.99V, ± (0.3% of reading + 0.1%of range) 20.00V~200.0V, ± (0.3% of reading + 0.1%of range)	± (1% + 0.005V)	± (1% + 0.005V) *2
Control Function				
Timer		1 min~10000 hour, 30min error per year		
Interface		RS-485 (Standard)		
Display		320 x 240 dot-matrix LCD display		
Operation		Start, Stop, Continue		
Protection		OCP, OTP, Over Load		
General				
Operation Environment		Temperature : 10˚C~40˚C, Humidity : < 90 % RH		
Power Consumption		3000 VA max.	700 VA max.	3000 VA max.
Power Requirement		220Vac ± 10%;48 Hz ~62 Hz		
Dimension (H x W x D)		221.5 x 440 x 609.8 mm / 8.72 x 17.32 x 24.01 inch	353.6 x 440 x 609.8 mm / 13.92 x 17.32 x 24.01 inch	221.5 x 440 x 609.8 mm / 8.72 x 17.32 x 24.01 inch
Weight		54 kg / 118.94 lbs	60 kg / 132.16 lbs	54 kg / 118.94 lbs

Note*1 : 23 ± 5˚C
Note*2 : Multiple acuracy for test frequency 20~99kHz (x 1), 100~499kHz (x 2.5), 500kHz~1MHz (x 5)