



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# 50,000 Count Premium DMM



The 5300 Series handheld DMM is the most advanced digital multimeter available in this price range. These meters incorporate a special 50,000 count integrated circuit for high-accuracy (0.025%) basic accuracy, high-reliability design. Measure AC Volts (True RMS AC, AC + DC), Resistance, Capacitance and Frequency, in addition to dB, Duty Cycle, Pulse Width, Power Line Disturbances and Temperature. These meters also feature fuse and battery access without breaking a calibration seal, great for ISO facilities. All models offer Peak Hold, Hold, Relative Mode and Backlight.

- Precision 50,000 count instruments
- 0.025% Basic DCV accuracy (Models 5380 and 5390)
- True RMS reading
- Large LCD display provides easy readability, all test parameters in clear view.
- Best value of any DMM
- CE safety approved

## Features

	5390	5380	5370	models 5360
Basic Functions				
Basic Accuracy	0.025%		0.05%	0.1%
Voltage (Best Resolution)	750VAC/1000VDC (10µV)			750VAC/1000VDC (100µV)
Current (Best Resolution)	10AAC/DC (10nA)			10AAC/DC (1µA)
Frequency	√		√	
Temperature Probe			√	
Duty Cycle	√		√	√
Event Counter	√			
Backlight	√	√	√	

## Specifications

	5390	5380	5370	models			
AC VOLTAGE (Auto/Manual Ranging, True RMS) Modes: AC or AC+ DC, selectable							
Accuracy at greater than 10% of range, 50,000 counts at Full Scale:							
Ranges	DC to 1kHz	1 kHz to 4 kHz	4 kHz to 10 kHz	10 kHz to 30 kHz	30 kHz to 50 kHz	Resolution	Input Impedance
500 mV	0.3%R+ 30D	1%R+ 3D	5%R+ 30D	Not specified		10µV	10 MΩ/100 pF or 1 GΩ
5V	0.3%R+ 30D	1%R+ 3D	2%R+ 30D	2%R+ 30D	3%R+ 30D	100 µV	11 MΩ/100 pF
50V	0.3%R+ 30D	1%R+ 30D	2%R+ 30D	2%R+ 30D	3%R+ 30D	10 MΩ/100 pF	
500V	0.3%R+ 30D	1%R+ 30D	2%R+ 30D	2%R+ 30D	3%R+ 30D	10 MΩ/100 pF	
750V	0.3%R+ 30D		Not specified			100 mV	10 MΩ/100pF
50 kHz to 100 kHz (5V, 50 V, 500 V ranges): ± 6% FS typical Crest Factor: 6							

## model

	5360						
Accuracy at greater than 10% of range, 5,000 counts at Full Scale:							
Ranges	DC to 1kHz	1 kHz to 5 kHz	5 kHz to 10 kHz	10kHz to 20 kHz	20 kHz to 30 kHz	Resolution	Input Impedance
500 mV	1%R+ 3D	4%R+ 3D		Not specified		100µV	10 MΩ/100 pF
5V	1%R+ 3D	1%R+ 3D	2%R+ 30D	2%R+ 3D	3%R+ 3D	1 mV	11 MΩ/100 pF
50V	1%R+ 3D	1%R+ 3D	2%R+ 3D	2%R+ 3D	3%R+ 3D	10mV	10 MΩ/100 pF
500V	1%R+ 3D	1%R+ 3D	2%R+ 3D	2%R+ 3D	3%R+ 3D	100 mV	10 MΩ/100 pF
750V	1%R+ 3D			Not specified		1 V	10 MΩ/100pF
Crest Factor: 3							

# Specifications

## models

**5390 5380 5370 5360**

Unless otherwise stated, accuracy specifications apply from 18°C to 28°C. Specifications stated as n%R+ nD, mean ± (n% of reading + n least significant digits). Accuracy specifications stated as n%FS, mean ± (n% of Full Scale)

DC VOLTAGE (Auto Manual Ranging)						Input Impedance
Ranges	Accuracy				Resolution	
500 mV	0.025 %R+ 2D	0.025 %R+ 2D	0.05 %R+ 2D	0.1 %R+ 2D	10 µV	10 MΩ or 1 GΩ*
5V 0.025 %R+ 2D	0.025 %R+ 2D	0.025 %R+ 2D	0.05 %R+ 2D	0.1 %R+ 2D	11 MΩ	
50V	0.025 %R+ 2D	0.025 %R+ 2D	0.05 %R+ 2D	0.1 %R+ 2D	1 mV	10 MΩ
500V	0.025 %R+ 2D	0.025 %R+ 2D	0.05 %R+ 2D	0.2 %R+ 2D	10 mV	10 MΩ
1000V	0.025 %R+ 2D	0.025 %R+ 2D	0.05 %R+ 2D	0.3 %R+ 2D	100 mV	10 MΩ
*(10 MΩ only on 5360)						

### AC/DC VOLTAGE PROTECTION

Overvoltage Protection	± 1100 V DC + AC Peak
Transient Protection	6kV for 10 µs

### DC CURRENT (Auto/Manual Ranging)

Ranges	Accuracy	Resolution	Max Burden Voltage
500µA	0.2 %R+ 5D	10 nA	700 mV
5 mA	0.2 %R+ 2D	100 nA	700 mV
50mA	0.05 %R+ 2D	1 µA	700 mV
500 mA	0.2 %R+ 2D	10 µA	1.5 V
10 A	0.5 %R+ 2D	1 mA	500 mV

## models

**5390 5380 5370**

AC CURRENT (Auto/Manual Ranging, True RMS) AC or AC + DC  
Accuracy at greater than 10% of range, 50,000 counts at Full Scale:

Ranges	DC to 1kHz	1 kHz to 10 kHz	10 kHz to 20 kHz	20 kHz to 30 kHz	Resolution	Input Impedance
500 µA	0.75 %R+ 50D	1.0 %R+ 50D	2.0 %R+ 50D	3.5 %R+ 50D	10 nA	700 mV
5 mA	0.6 %R+ 50D	0.75 %R+ 50D	2.0 %R+ 50D	3.0 %R+ 50D	100 nA	700 mV
50 mA	0.6 %R+ 50D	0.75 %R+ 50D	2.0 %R+ 50D	3.0 %R+ 50D	1 µA	700 mV
500 mA	0.7 %R+ 50D	0.75 %R+ 50D	Not specified		10 µA	1.5 V
10 A	1 % of FS	Not specified			1 mA	500 mV

Crest Factor: 6

## model

**5360**

### AC CURRENT

Accuracy at greater than 10% of range, 5,000 counts at Full Scale:

Ranges	DC to 5 kHz	Resolution	Max Burden Voltage
5 mA	1.0 %R+ 3D	1 µA	700 mV
50 mA	1.0 %R+ 3D	10 µA	700 mV
500 mA	1.0 %R+ 3D	100 µA	1.5 V
10 A	1 % of FS	10 mA	500 mV

Crest Factor: 3

## models

**5390 5380 5370 5360**

### RESISTANCE (Auto/Manual Ranging)

Ranges	Accuracy			Resolution	Test Current
500 Ω	0.07 %R+ 5D	0.1 %R+ 5D	10 mΩ	1 mA	
5 kΩ	0.07 %R+ 2D	0.1 %R+ 2D	100 mΩ	100 µA	
50 kΩ	0.07 %R+ 2D	0.1 %R+ 2D	1 Ω	10 µA	
500 kΩ	0.07 %R+ 2D	0.1 %R+ 2D	10 Ω	1 µA	
5 MΩ	0.3 %R+ 2D	0.3 %R+ 2D	100 Ω	100 µA	
50 MΩ	1.0 %R+ 2D	1.0 %R+ 2D	1 kΩ	10 µA	

## models

**5390 5380 5370 5360**

### CAPACITANCE (Auto/Manual Ranging)

Range	Accuracy	Measurement Resolution	Measurement Current	Max Time
50 nF	1.0 %R+ 2D	1.0 %R+ 2D	10 pF	100 nA
500 nF	1.0 %R+ 2D	1.0 %R+ 2D	100 pF	1 µA
5 pF	1.0 %R+ 2D	1.0 %R+ 2D	1 nF	10 µA
50 µF	1.0 %R+ 2D	1.0 %R+ 2D	10 nF	100 µA
500 µF	1.0 %R+ 2D	1.0 %R+ 2D	100 nF	1 mA
5000 µF	1.0 %R+ 2D	2.0 %R+ 2D	1 µF	1 mA
50 mF	1.0 %R+ 2D	2.0 %R+ 2D	10 µF	1 mA

## models

**5390 5380 5370 5360**

FREQUENCY (Autoranging)				
Range: 0.6 Hz to 500 kHz				
Accuracy: ± (0.03 %rdg+ 1 digit)				
Ranges	500 mV (5390, 5370)	5V to 500 V	750 V	10 A (5390, 5370)
0.6Hz to 5kHz	2% of FS	2% of FS	100 V	2 A
5 kHz to 50 kHz	5% of FS	5% of FS	250 V	Not specified
50 kHz to 500 kHz	Not specified	10% of FS	Not specified	

## Accessories

### SUPPLIED:

Test Leads, Spare Fuses, Instruction Manual

### OPTIONAL:

- TL-130A General Purpose DMM Kit
- TP-5300 Platinum Temperature Probe (for 5370)
- AK-5350 Calibration Software (AK-5300 Hardware required)
- AK-5300 Communications Hardware & LabView® drivers

## Common Features

CONTINUITY - Threshold: 10Ω to 20Ω

DIODE TEST - Measures forward voltage drop of diode 0 to 1.999V

dB MEASUREMENT - 5390 and 5370 - Measures value relative to a reference from 1 to 9999 Ω, 5380 at 600Ω

PEAK HOLD - Selection: Peak + or Peak- (surge or sag) Acq. Time: < 1rms

DUTY CYCLE: 5390, 5370, 5360-Modes: Selectable %+, -, or % - Min

EVENT COUNTER (Model 5390) - Range: 0 to 99999 (Totalize)

MIN PULSE DURATION: 2 µs

PULSE WIDTH (Model 5390) Modes: Selectable +, - Min. Pulse Width: 20µs Max Pulse Period: 12.5 µs

TEMPERATURE (Model 5370) Using Model TP-5300 Probe (Optional)

RANGE: -200° to + 800°C

Computer Interface: RS232 capability built-in. Requires AK-5300

### GENERAL

Display: 50,000 count resolution LCD, 0.55" (14mm) digit height, 34 segment analog bargraph

Measurement Rate: 2/sec., 20/sec - bargraph

Power: 9V (NEDA 1604) Battery Life: 500 hrs

Dimensions: 1.57 x 3.23 x 7.44" (40 x 82 x 189mm)

Weight: 14 oz (397g)

**Three Year Warranty**