



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!



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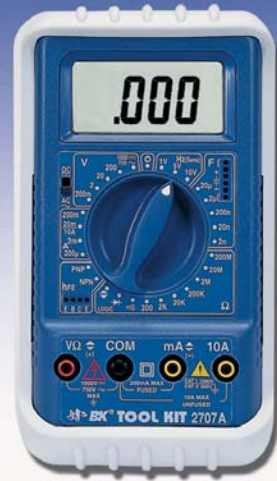
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# Tool Kit® Multimeters



2708



2707A

Excellent meters for most jobs that require flexibility, accuracy and speed. Value packed features make these meters a must in every "Tool Kit®."

## Common Features:

- 2000 count
- 0.5% DCV accuracy
- DC voltage to 1000V
- AC voltage to 750V
- DC current to 10A
- Continuity
- Diode test
- Drop resistant case

## Features

	2708	2707A	2706A	2704B	models 2703B
Basic Functions					
Ranging	Auto	Manual	Manual	Manual	Manual
Current	10A AC/DC	10A AC/DC	10A AC/DC	10A AC/DC	10A DC
Component Tests					
Resistance	0.1Ω to 43MΩ	0.1Ω to 200MΩ	0.1Ω to 20MΩ	0.1Ω to 20MΩ	0.1Ω to 20MΩ
Capacitance		to 20μF	to 20μF	to 20μF	
Transistor Test		√	√	√	
Frequency Counter		√	√	√	
Temperature Probe			√		
Logic Probe	√	√			
Backlight	√				

## Specifications

	2708	2707A	2706A	2704B	models 2703B
DC Volts					
Ranges	430mV, 4.3V, 43V, 1000V	200mV, 2V, 20V, 200V, 1000V			
Resolution	100μV, 1mV, 10mV, 100mV, 1V				
Accuracy	±(0.5% + 1 Digit)				
Overload Protection	200mV Range 500V DC + AC Peak, 350V RMS Sine: All Other Ranges: 1200V DC + AC Peak, 800V RMS, Sine				
Input Impedance	10MΩ				
AC Volts					
Ranges	430mV, 4.3V, 43V, 430V, 750V	200mV, 2V, 20V, 200V, 750V			200V, 750V
Resolution	100μV, 1mV, 10mV, 100mV, 1V	100μV, 1mV, 10mV, 100mV, 1V			100mV, 1V
Basic Accuracy	±(1.5% + 4 Digits)				
Frequency Response	50 to 100 Hz	50 to 500 Hz			
Overload Protection	200mV Range: 500V DC + AC Peak, 350V RMS, Sine: All Other Ranges: 1200V DC + AC Peak, 800V RMS, Sine:			500VDC + AC Peak, 750VRMS, Sine	
Input Impedance	10MΩ				4.5MΩ
DC Current					
Ranges	430μA, 43mA, 430mA, 10A	200μA, 2mA, 20mA, 200mA, 2A, 10A (2A: 2706A only)		200mA, 20mA, 200mA, 10A	
Resolution	0.1μA, 10μA, 100μA, 10mA	0.1μA, 1μA, 10μA, 100μA, 1mA, 10mA (1mA: 2706A only)		0.1μA, 1μA, 100μA, 10mA	
Accuracy	±(0.5% + 1 Digit)		±(1% + 1 Digit): 10A Range: ±(2% + 3 Digits)		
Burden Voltage	10A and 200mA range: 750mV max.; All Other Ranges: 325mV max.				
Overload Protection	10A Range: Unfused; All Other Ranges: 250V Fuse				
AC Current					
Ranges	430μA, 43mA, 430mA, 10A	200μA, 2mA, 20mA, 200mA, 2A, 10A (2A: 2706A only)		Does not apply	
Resolution	0.1μA, 10μA, 100μA, 10mA	0.1μA, 1μA, 10μA, 100μA, 1mA, 10mA (1mA: 2706A only)			
Accuracy	±(1.2% + 4 Digits): 10A Range: ±(2% + 4 Digits)				
Frequency Response	50 to 500 Hz				
Burden Voltage	10A and 200mA Range: 750mV max.; All Other Ranges: 325mV max.				
Overload Protection	10A Range: Unfused; All Other Ranges: 250 V Fuse				
Resistance					
Ranges	430Ω, 4.3kΩ, 43kΩ, 4.3MΩ, 43MΩ	200Ω, 2kΩ, 20kΩ, 200kΩ, 2MΩ, 20MΩ, 200MΩ (200MΩ: 2707A only)			
Resolution	0.1Ω, 1Ω, 10Ω, 100Ω, 1kΩ, 10kΩ	0.1Ω, 1Ω, 10Ω, 100Ω, 1kΩ, 10kΩ, 100kΩ (100kΩ: 2707A only)			
Basic Accuracy	430Ω Range: ±(0.3% + 3 Digit)		200MΩ Range (2707A only): ±(5% + 10 Dgt.); ±(0.8% + 1 Digit)		
	4.3k - 4.3MΩ Range: ±(0.3% + 2dgt)		20MΩ Range: ±(3% + 1 Digit)		43MΩ Range: ±(1.5% + 4 Digit)
Overload Protection	500V DC + AC Peak				





2703B



2704B



2706A

# Tool Kit® Multimeters

## Specifications (continued)

	2708	2707A	2706A	2704B	models 2703B
Diode Test	Tested at 1.6mA and 3.2V Max.				
Transistor Test (hFE)	Does not apply	Base Current: 10µA Vce: 2.8V; Gain Indication: 0 to 1,000			Does not apply
Capacitance					
Ranges	Does not apply	2,000pF 20nF, 200nF 2µF, 20µF			Does not apply
Resolution	1pF 10pF, 100pF 1nF, 10nF				
Accuracy	±(3% + 10 Digits)				
Test Frequency, Voltage	400Hz, 50mV				
Frequency					
Ranges	Does not apply	2kHz, 20kHz, 200kHz, 2MHz, 15MHz			Does not apply
Resolution	1Hz, 10Hz, 100Hz, 1kHz, 10kHz				
Accuracy	±(0.1% + 2 Digit)				
Sensitivity	1Vrms				
Overload Protection	500V DC + AC Peak				
Logic Probe (TTL)					
Logic Threshold	1 = 2.8 ± 0.8V, 0 = 0.8 ± 0.5V	Does not apply			Does not apply
Minimum Pulse Width	25nS				
Input Impedance	120kΩ nom.				
Overload Protection	500V DC + AC Peak				
Temperature					
Range	Does not apply	Does not apply	-4° to + 1400°F (-20° to + 750°C)	Does not apply	Does not apply
Accuracy					
-4° to + 900°F (-20° to 500°C)				±(2% + 4°F) ±(2% + 2°C)	
900° to + 1400°F (500° to + 750°C)				±(3% + 4°F) ±(3% + 2°C)	
Continuity Tone	Tone Sounds within 100mS for Resistance Under 100V				
General					
Display	3 1/2 digit, high-contrast 0.7" LCD, 1999 counts				
Sampling	3 times/sec. (nominal)				
Operating Temp:	32° to 104°F (0° to + 40°C), 0 to 70% RH				
Storage Temp	-4° to 140°F (-20° to + 60°C), 0 to 80% RH				
Power Requirements	9 Volt NEDA 1604.				
Battery Life	200 hours (alkaline) nominal 275 hours (alkaline) Nominal (2703B only)				
Dimensions (HxWxD)	5.9 x 3.1 x 1.3" (150 x 79 x 33 mm)				
Weight	9 oz. (250g) with battery				

## Accessories

One Year Warranty

SUPPLIED: Battery, Test Leads, Instruction Manual. Thermocouple Probe (2706A only)  
 OPTIONAL: TL-2A Deluxe Test Leads, TL-3 Accessory Tip Kit (for TL-2A), PR-28A High Voltage DMM Probe (40kVDC),  
 TL-130A General Purpose DMM Kit  
 Carrying Case (not included): LC-29B

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