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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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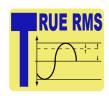


Data Sheet

True RMS AC + DC Tool Kit® DMM

Model 2712







The 2712 is a full featured auto ranging true RMS DMM that combines performance, value and functionality. The 40000 count LCD has a green back light that allows the meter to be used in dimly lit environments. The 2712 can measure resistance values up to 40 Mohm and capacitance to 40 uF. With the auto power off feature you won't have to worry about accidental battery consumption. Value-packed features make this meter a must in every "Tool Kit®".

Specifications model								
	2712							
DC Volts								
Ranges	400 mV, 4 V, 40 V, 400 V, 1000 V							
Resolution	0.01 mV, 1 mV, 10 mV, 100 mV, 1 V							
Accuracy	400 mV range: ±(0.15 % rdg + 10 dgts)							
	4 V to 1000 V ranges: ±(0.1 % rdg + 5 dgts)							
Input Impedance	400 mV: > 3 MΩ; 4 V to 1000 V: 2.3 MΩ							
Overload Protection	1000 VDC or 750 VACrms							
AC Volts (True RMS) (45 Hz-1	kHz)							
Ranges	400 mv, 4 V, 40 V, 400 V, 750 V							
Resolution	0.01 mV, 1 mV, 10 mV, 100 mV, 1 V							
Accuracy	400 mV to 400 V ranges: $\pm (1.2\% \text{ rdg} + 20 \text{dgts}) 45 \sim 60 \text{ Hz}$							
	4 V range: $\pm (1.5\% \text{ rdg} + 20 \text{ dgts}) 60 \sim 500 \text{ Hz}$							
	40 V to 400 V ranges: $\pm (1.5\% \text{ rdg} + 20 \text{dgts}) 60 \sim 1 \text{ kHz}$							
	750 V range: $\pm (2.0\% \text{ rdg} + 20 \text{ dgts}) 45 \sim 500 \text{ Hz}$							
AC + DC Volts (True RMS) (45	Hz-1 kHz)							
Ranges	400 mv, 4 V, 40 V, 400 V, 750 V							
Resolution	0.01 mV, 1 mV, 10 mV, 100 mV, 1 V							
Accuracy	400 mV to 400 V ranges: $\pm (1.5\% \text{ rdg} + 20 \text{dgts}) 45 \sim 60 \text{ Hz}$							
	4 V range: ±(2.0% rdg + 20 dgts) 60 ~ 500 Hz							
	40 V to 400 V ranges: ±(2.0% rdg + 20dgts) 60 ~ 1 kHz							
	750 V range: $\pm (2.0\% \text{ rdg} + 20 \text{ dgts}) 45 \sim 500 \text{ Hz}$							
Crest Factor	≤ 3							
AC coupled True RMS	Specified from 10% to 100% of range							
Input Impedance	400 mV: >3 MΩ; 4 V to 750 V: 2.3 MΩ							
Overload Protection	1000 VDC or 750 VACrms							
DC Current								
Ranges	40 mA, 400 mA, 10 A							
Resolution	I uA, 10 uA, 10 mA							
Accuracy	40 mA to 400 mA ranges: ±(0.5% rdg + 10 dgts)							

	10 A range: ±(2.0% rdg + 10 dgts)							
Input Protection	0.5 A/500 V & 10 A/500 V fast blow ceramic fuses							
10A Input	10 A for 60 sec max. followed by a 10 minute cooling period							
Voltage Burden	40 mA, 10 A ranges: 0.2V; 400 mA range: 1 V							
AC Current (True RMS) (50 F								
Ranges	40 mA, 400 mA, 10 A							
Resolution	I uA, 10 uA, 10 mA							
Accuracy	40 mA to 400 mA ranges: ±(2.0% rdg + 30 dgts)							
	10 A range: ±(2.5% rdg + 30 dgts)							
Crest Factor	≤ 3							
AC coupled True RMS	Specified from 10% to 100% of range							
Voltage Burden	40 mA, 10 A ranges: 0.2V; 400 mA range: 1 V							
Input Protection	0.5 A/500 V & 10 A/500 V fast blow ceramic fuses							
	10A Input 10 A for 60 sec max. followed by a 10 minute cooling period							
Resistance								
Ranges	400 Ω, 4 kΩ, 40 kΩ, 400 kΩ, 4 MΩ, 40 MΩ							
Resolution	0.01 Ω, 0.1 Ω, 1.0 Ω, 10 Ω, 1 kΩ, 10 kΩ							
Accuracy	400Ω range: $\pm (0.3\% \text{ rdg} + 15 \text{dgts})$							
-	$4 k\Omega$ to 400 kΩ ranges: \pm (0.3% rdg + 5dgts)							
	4 MΩ range: \pm (0.5% rdg +10 dgts)							
	40 MΩ range: \pm (1.5% rdg + 20 dgts)							
Open Circuit Voltage (typic								
Overload Protection	500 VDC/ACrms							
Capacitance								
Ranges	4 nF, 40 nF, 400 nF, 4 uF, 40 uF							
Resolution	1 pF, 10 pF, 100 pF, 1 nF, 10 nF							
Accuracy	4 nF range: ±(3.0% rdg + 20 dgts)							
7 10001.005	40 nF to 400 nF ranges: ±(3.0% rdg + 5 dgts)							
	4 uF to 20 uF \pm (3.0% rdg + 5 dgts)							
	20 uF to 40 uF ±(5.0% rdg + 5 dgts)							
Overload Protection	500 VDC/ACrms							
Frequency	300 VBC// CINIS							
Ranges	100 Hz, 1 kHz, 10 kHz, 100 kHz, 500 kHz							
Resolution	0.01 Hz, 0.1 Hz, 1 Hz, 10 Hz, 100 Hz							
Accuracy	$\pm (0.1 \% \text{ rdg} + 10 \text{ dgts})$							
Sensitivity	5 Hz-100 kHz: >500 mVrms, 100 kHz-500 kHz: >1.5 Vrms							
Minimum Pulse Width	>2 us							
Duty Cycle Limits	>30 % and <70 %							
Overload Protection	500 VDC/AC rms							
Diode Test	300 VBe// te mis							
Test Current	0.8 mA (typical)							
Resolution	0.1 mV							
Accuracy	$\pm (1.5 \% \text{ rdg} + 10 \text{ dgts})$							
Open Circuit Voltage	3.0 VDC (typical)							
Overload Protection	500 VDC/ACrms							
Continuity	300 VBC// CINIS							
Audible Indication	Less than 40 Ω							
Response Time	500 ms							
Overload Protection	500 VDC/ACrms							
General	JOO VEC/ACIIIS							
	4 3/4 digit, 40000 count LCD							
Display Analog Bargraph	40 segments with measurements of 20 times per second							
Analog Bargraph Polarity	Automatic, positive implied, negative polarity indication							
Overrange	MSD (Most Significant Digit) Blinks							
Low Battery Indication	Battery symbol will display when battery voltage drops below							
LOW Dattery Indication	operating levels							
Measurement Rate	2 times per second							
Auto Power Off	Approximately 30 minutes							
Operating Environment	0°C to 50°C at <70 % relative humidity							
Storage Environment	-20°C to 60°C at 0 to 80 % relative humidity							
Accuracies	Stated accuracy at 23°C +5°C at <75 % relative humidity							
Temperature Coefficient	0.1 x (specified accuracy) per °C. (°C to 18°C, 28°C to 50°C)							
Power	Single standard 9 volt battery, NEDA 1604, JIS 006P, IEC 6F22							
Battery Life	150 hours typical							
Dimensions	165 mm (H) x 78 mm (W) x 42.5 mm (D)							
Weight	Approximately 10 oz. (285 g) with battery and hanger							
vveignt								
	Three-Year Warranty							

Supplied Accessories: User manual, one set of test leads, one spare fuse, and 9V battery (installed)

B&K Precision's 2700 Tool Kit® Series

Models 2703C, 2704C, 2705B, 2706B, 2707B, 2708B, 2709B & 2712

These excellent meters are for most jobs that require flexibility, accuracy and speed. Value-packed features make these meters a must for everyone's "Tool Kit®".

Common Features:

- DC Voltage to 1000V
- DC Current to 10A
- Diode test
- Magnetic hanging strap
- AC Voltage to 750V
- Continuity test
- Drop resistant case





Back Light / Easy-to-Read LCD

Model 2706B



Ultra-bright blue LCD back light for low ambient light measurements

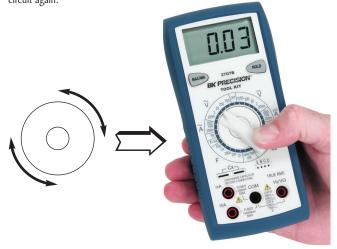
Models 2709B & 2712



Large easy-to-read LCD with green LED backlight

Single-handed operation

The ergonomic design allows both left and right handed users to rotate the knob while holding the meter in one hand. While one hand keeps the probe on the circuit, the other hand changes the meter's function. This speeds up troubleshooting because you don't have to locate the probe point in the circuit again.



Features								models
	2712	2709B	2708B	2707B	2706B	2705B	2704C	2703C
Ranging	Auto/Manual	Auto/Manual	Auto/Manual	Manual	Manual	Auto/Manual	Manual	Manual
True RMS	AC + DC	√	√	√	-	-	-	-
Current	10 A AC/DC	10 A AC/DC	10 A AC/DC	10 A AC/DC	200 mA AC/DC	10 A AC/DC	10 A AC/DC	10 A DC
Capacitance	to 40 uF	to 66 mF	-	to 20 uF	to 20 mF	-	to 20 uF	-
Transistor Test	-	-	-	√	-	-	√	-
Frequency Counter	to 500 kHz	to 66 MHz	-	to 20 MHz	to 40 kHz	-	to 20 MHz	-
Temperature	-	-	-	-	√	-	-	-
Logic Probe	-	-	-	√	-	-	√	-
Backlight LCD	√	√	-	-	√	-	-	-
Analog Bar Graph	√	-	V	-	-	-	-	-
Battery Test	-	-	-	-	-	-	-	√
Auto Power off	√	√	√	-	√	√	-	-

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