ΗΙΟΚΙ

C METER 3506-10 C HiTESTER 3504



For Low Capacitance

C METER 3506-10 Measures at 1 kHz and 1 MHz

For High Capacitance MLCCs

C HITESTERS 3504-60, 3504-50 and 3504-40 Measures at 120 Hz and 1 kHz

Ideal for testing taping machines and sorters

C METER 3506-10

- High-speed measurement with an analog measurement time of 0.6 ms (1 MHz)
- Improved noise resistance and dramatically increased repeatability for measurement of minuscule capacitance values
- Stable measurement of low-capacitance capacitors at 1 MHz

C HITESTER 3504-60/3504-50/3504-40

- Constant-voltage measurement with an analog measurement time of 1 ms (1 kHz); ideal for measurement of high-capacitance MLCCs
- Constant-voltage measurement of high capacitance values up to 1.45 mF (120 Hz, 500 mV)
- Model 3504-60 provides four-terminal contact checking.

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Analog measurement times as low as 0.6 ms for improved capacitor productivity

Common Features of Models 3506-10, 3504-60, 3504-50 and 3504-40

■ C-Meter measurement frequencies comply with JIS C 5101-1

Capacitor Type	C Range	Measurement Frequency [Hz] Indicates recommended frequency 	Supporting Models
	C ≤ 1000 pF	1M	3506-10
Non-Electrolytic	$1000 \text{ pF} < \text{C} \le 10 \mu\text{F}$	1k	3504-60
	10 µF < C	120	3504- ₅₀ 3504- ₄₀
Electrolytic	-	120 〇	3511- ₅₀ (for ref.)

BIN function

C measurement values can be classified into up to 14^{*1} ranks for easy sorting.

*1 Models 3506-10 support up to 13 ranks.

Comparator function

Upper and lower limits can be specified for first (C) and second (D) parameters. Evaluation results can be indicated by beeper, LED indicators and external output, with the

setting values always displayed.



Memory function

Measurement data is stored in the instrument and can be downloaded via GP-IB or RS-232C.

Intuitive operation with LED indicators

Simply select the desired operation on the front panel. The current measurement configuration settings are indicated by LEDs so you can check your settings at a glance.

Trigger-synchronous output

The measurement signal is applied to the test sample only when a measurement trigger is applied. Because large current does not flow when making and breaking contact with the sample, contact point wear is minimized.

Stores 99^{*2} measurement configurations

Store up to 99 sets of measurement configuration settings for quick recall when switching test sample types on lines with many repeating measurements.

Any measurement configuration can be recalled by EXT I/O.

*2 Models 3506-10 store up to 70 measurement configurations.

Contact-checking functions included

Detect contact errors during measurement

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High-speed measurements as fast as 1.5 ms (0.6 ms for analog measurements)

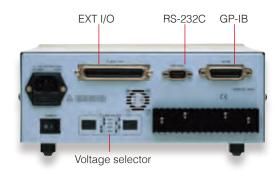
High-speed testing such as with taping machines is supported by the 1.5 ms minimum measurement time (at FAST, 1M Hz measurements, 3506-10). Select from FAST, NORMAL and SLOW measurement speeds.

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10				Measurement Speed	
	Measurement Frequency	Output Signal	FAST	NORMAL	SLOW
	1 kHz	INDEX	1.1 ms	4.1 ms	13.3 ms
		EOM	2 ms	5 ms	14 ms
	1 MHz	INDEX	0.6 ms	4.1 ms	13.3 ms
		EOM	1.5 ms	5 ms	14 ms

3504-60, 3504-50, 3504-40				Measurement Speed	
	Measurement Frequency	Output Signal	FAST	NORMAL	SLOW
	120 Hz	INDEX	8.3 ms	33.3 ms	133.3 ms
	120 HZ	EOM	10 ms	37.5 ms	146 ms
	1 kHz	INDEX	1 ms	4 ms	24 ms
		EOM	2 ms	5.5 ms	29.5 ms

Easy integration into automatic testing equipment



C METER 3506-10

EXT I/O

Triggering and loading of measurement conditions can be controlled externally. Capable of external output of comparator results, BIN measurement results, and end-of-measurement signals, these meters support full interfacing with automated devices.

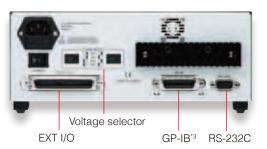
EXT I/O	EXT I/O Features						
 Inputs External DC power input (+5 to 24 V, may be supplied from external device) External trigger signal Panel number (Measurement configuration) selection Panel-number-valid signal Calibration 	• Comparator result output (first and second parameters, and ANDed						

RS-232C and GP-IB interface^{*4}

Except for turning the instrument's power on and off, all meter functions can be controlled from a computer. This facilitates efficient data handling when controlling or processing data in batches on a computer

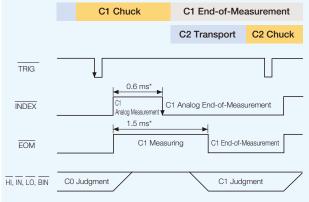
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*4 GP-IB is available on Model 3504-60, 3504-50, 3504-40.



*3 Model 3504-40 does not include a GP-IB interface. C HITESTER 3504-60, 3504-50, 3504-40

EXT I/O Timing Chart



* Measurement Speed: FAST used for example. Applicable for 1 MHz measurements

RS-232C interface

· Transfer method: Start-stop transfer · Parity: None Data length: 8 bits Stop bit: 1 bit GP-IB interface

Transfer speed: 9600, 19200 bps

- Delimiter: CR+LF, CR

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C METER 3506-10

Measure low-magnitude capacitors with high accuracy



•Measurement parameters and frequency ranges

	Range of Measurements (C, D)	Measurement Frequencies			
	Trange of Measurements (O, D)	120 Hz	1 kHz	1 MHz	
3506-10	C: 0.000 fF to 15.0000 µF D: 0.00001 to 1.99999	N/A	1	1	

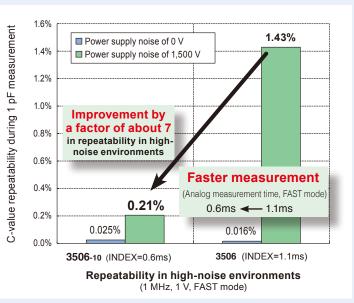
Features of Models 3506-10 C METER

Faster measurement and improved repeatability

Compared to the previous model (3506), the 3506-10 delivers higher measurement speeds in FAST mode and an improvement by a factor of approximately 7 in repeatability for measurement of minuscule capacitance values in high-noise environments. These characteristics make the instrument ideal for embedded measurement in taping machines, sorters, and other automatic systems.

Enhanced absolute accuracy

A self-calibration function minimizes variations in measurement values due to changes in ambient temperature. In addition, the cable-length-compensation function minimizes measurement errors when the measurement cable is extended from 1 to 2 meters (using 1.5D-2V cable).



Enhanced contact-checking function

Contact errors while measuring can be detected by the Chatter Detection function, Low-C Reject function, Current Detection Circuit Monitoring function and the Applied Voltage Value Monitoring function.

Yield rates are improved by judging measurement-object contact errors as ERR instead of FAIL.



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Specifications

Measured parameters	C (Capacitance), D (dissipation factor tan $\delta),$ Q (1/tan $\delta)$				
Measurement frequencies	1 kHz and 1 MHz Accuracy: ±0.01% or better Frequency shift: 1 MHz ±1%, ±2%				
Measurement signal level	Open-circuit terminal voltage: 500 mV or 1 V Signal level accuracy: $\pm 10\% \pm 5$ mV Output resistance: Approx. 1 Ω (@1 kHz in 2.2 μ F and higher ranges), approx. 20 Ω (in ranges other than the above)				
Range of measurable values	C: 0.000 fF to 15.0000 μF D: 0.00001 to 1.99999 Q: 0.0 to 19999.9				
Equivalent circuit mode	Series-Parallel Equivalent Circuit mode (Auto/Manual)				
Measurement time	Representative value: 1.5 ms (FAST) (Actual measurement time depends on measurement configura- tion settings)				
Measurement speed	FAST, NORMAL and SLOW				
Averaging function	1 to 256				
Low-C reject function	Bad Contact Detection (open circuit between terminals)				
Chatter detection function	Bad Contact Detection (chatter)				
Current detection circuit monitoring function	A measurement signal fault is detected when external noise causes measurement levels to be out of tolerance for the measurement range.				
Applied voltage value monitoring function	An error is detected when voltage monitored across a test sample is outside of the judgment standard.				
Trigger function	Internal and external triggers can be enabled				
Trigger delay	0 to 9.999 s				
Memory function	Up to 1,000 measurement values can be stored in the instrument (Downloadable by GP-IB and RS-232C)				

Compensation	Open- and short-circuit compensation, load and cable length compensation, and self calibration			
Trigger-synchronous output function	Functions to inhibit measurement voltage except while actually measuring			
Key-lock function	Settings can be made and cancelled by front panel keys			
BIN measurement	C: 13 ranks, D-NG, OUT OF BINS, Absolute value setting, Δ setting, $\Delta\%$ setting			
Comparator	C: HI, IN, LO; D(Q): HI, IN, LO Absolute value setting, Δ setting, Δ% setting			
Panel save and load	70 setting configurations can be stored Load method: key operation or external I/O			
Audible beeper	Setting the buzzer for comparator judgment results (IN or NG) to ON or OFF is possible			
Interface	RS-232C, GP-IB and EXT I/O (included as standard)			
Printer function	Measurement values can be printed (requires Model 9442 or 9444 cable)			
Display device	LEDs (on/off)			
Operating temperature and humidity	0 to 40°C, 80% rh or less (non-condensating)			
Storage temperature and humidity	-10 to 55°C, 80% rh or less (non-condensating)			
Operating environment	Indoors, to 2000 m ASL			
Power supply	Selectable 100, 120, 220 or 240 V ±10%, 50/60 Hz			
Max. power consumption	40 VA			
Withstand voltage	Power line to ground: 1.39 kV AC for 15 s			
Backup battery life	Approx. 6 years			
Dimensions	Approx. 260 W × 100 H × 298 D mm (10.24" W × 3.94" H × 11.73" D) (exc. projections)			
Mass	Approx. 4.8 kg (169.3 oz)			
Applicable standards	EMC: EN61326, EN61000-3-2, EN61000-3-3 Safety: EN61010-1			
Supplied accessories	Power Cord, Spare Fuse			

Measurement accuracy and range

Temp. and humidity for guaranteed accuracy: $23^{\circ}C \pm 5\%$, 80% rh or less (non-condensating) Warm-up time: 1 h, with open- and short-circuit compensation, and self calibration set to Auto

Basic accuracy (Accuracy guaranteed for 1 year when $D \le 0.1$, Post-adjustment accuracy guaranteed for 1 year)

Measurement area C: 0.001 fF to 15.0000 μF; D: 0.00001 to 1.99999

Measurement accuracy

Use the following equation to calculate the measurement accuracy.

Measurement accuracy = basic accuracy $\times B \times C \times D \times E$

[B: Measurement signal level coefficient] 1 V: 1, 500 mV: 2

[C: Measurement speed coefficient] FAST: 1.5 (1k Hz), 3 (1M Hz) NORMAL: 1.2, SLOW: 1

[D: Cable length coefficient] (using 1.5D-2V cable) 0 m: 1, 1 m: 1.5, 2 m: 2

[E: Temperature coefficient] $1+0.1 \times |t-23|$ t = operating temperature (°C)

C range	Parameter	Accuracy
Orange		1 kHz
100 pF	C	0.12%rdg+0.2%rdg×(Cr/Cx)
100 pr	D	0.002+0.001×(Cr/Cx)
220 pF	С	0.12%rdg+0.08%rdg×(Cr/Cx)
220 pr	D	0.0012+0.0004×(Cr/Cx)
470 pF	C	0.12%rdg+0.04%rdg×(Cr/Cx)
470 pr	D	0.0012+0.0003×(Cr/Cx)
1 nF	С	0.12%rdg+0.02%rdg×(Cr/Cx)
1 nF	D	0.0012+0.0003×(Cr/Cx)
2.2 F	С	0.12%rdg+0.02%rdg×(Cr/Cx)
2.2 nF	D	0.0012+0.0003×(Cr/Cx)
15.5	С	0.12%rdg+0.02%rdg×(Cr/Cx)
4.7 nF	D	0.001+0.0003×(Cr/Cx)
10 5	С	0.12%rdg+0.02%rdg×(Cr/Cx)
10 nF	D	0.001+0.0003×(Cr/Cx)
	С	0.12%rdg+0.02%rdg×(Cr/Cx)
22 nF	D	0.001+0.0003×(Cr/Cx)
47. 5	С	0.12%rdg+0.02%rdg×(Cr/Cx)
47 nF	D	0.001+0.0003×(Cr/Cx)
100 5	С	0.12%rdg+0.02%rdg×(Cr/Cx)
100 nF	D	0.001+0.0003×(Cr/Cx)
	С	0.12%rdg+0.02%rdg×(Cr/Cx)
220 nF	D	0.001+0.0003×(Cr/Cx)
1 - 0 - D	С	0.12%rdg+0.02%rdg×(Cr/Cx)
470 nF	D	0.001+0.0003×(Cr/Cx)
	С	0.12%rdg+0.02%rdg×(Cr/Cx)
1 μF	D	0.001+0.0003×(Cr/Cx)
	С	0.12%rdg+0.02%rdg×(Cr/Cx)
2.2 μF	D	0.001+0.0003×(Cr/Cx)
	С	0.12%rdg+0.02%rdg×(Cr/Cx)
4.7 μF	D	0.001+0.0003×(Cr/Cx)
	C	0.12%rdo+0.02%rdox(Cr/Cx)

C range	Parameter	Accuracy
Orange	1 arameter	1 MHz
220 fF	С	0.2%rdg+1%rdg×(Cr/Cx)
220 IF	D	0.004+0.002×(Cr/Cx)
470 fF	С	0.15%rdg+0.3%rdg×(Cr/Cx)
470 IF	D	0.003+0.001×(Cr/Cx)
1 - 12	С	0.12%rdg+0.16%rdg×(Cr/Cx)
1 pF	D	0.002+0.001×(Cr/Cx)
22 - E	С	0.12%rdg+0.08%rdg×(Cr/Cx)
2.2 pF	D	0.0012+0.0004×(Cr/Cx)
47.E	С	0.12%rdg+0.04%rdg×(Cr/Cx)
4.7 pF	D	0.0012+0.0003×(Cr/Cx)
10 -E	С	0.12%rdg+0.02%rdg×(Cr/Cx)
10 pF	D	0.0012+0.0003×(Cr/Cx)
22 -E	С	0.12%rdg+0.02%rdg×(Cr/Cx)
22 pF	D	0.001+0.0003×(Cr/Cx)
47 F	С	0.12%rdg+0.02%rdg×(Cr/Cx)
47 pF	D	0.001+0.0003×(Cr/Cx)
100 E	С	0.12%rdg+0.02%rdg×(Cr/Cx)
100 pF	D	0.001+0.0003×(Cr/Cx)
220 - E	С	0.12%rdg+0.02%rdg×(Cr/Cx)
220 pF	D	0.001+0.0003×(Cr/Cx)
470E	С	0.12%rdg+0.02%rdg×(Cr/Cx)
470 pF	D	0.001+0.0003×(Cr/Cx)
1	С	0.12%rdg+0.02%rdg×(Cr/Cx)
1 nF	D	0.001+0.0003×(Cr/Cx)

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C HITESTER 3504-60, 3504-50 and 3504-40

Perform high-speed, constant-voltage testing even of high-capacitance MLCCs



Measurement parameters and frequency ranges										
	Range of Measurements (C, D)				Ν	Measurement Frequencies				
	папуе	Univiea	Sureme	nis (C, D)	12	20 Hz	1 kHz	1	MHz	
3504-60 3504-50 3504-40	C: 0.9400 pF to 20.0000 mF D: 0.00001 to 1.99999					1	1		N/A	
• Functional differences between Models 3504-60, 3504-50 and 3504-40										
		stant-Vol urement				Bin		Interface		
	100mV	500mV	1V	Functio		Functior	RS-232C	GP-IB	EXT I/O	
3504-60	1	1	~	1		1	1	1	1	
3504-50	N/A	1	 Image: A set of the set of the	N/A		1	 ✓ 	1	1	
3504-40	N/A	1	~	N/A		N/A	1	N/A	1	

Features of Model 3504-60, 3504-50 and 3504-40 C HiTESTERs

Constant voltage measurement (CV)

Constant measuring voltages of 1 V, 500 mV and 100 mV^{*1} are provided for voltage-dependent capacitance measurements. Measurement frequency is selectable from 120 Hz or 1 kHz.

*1 100 mV in Model 3504-60 only.

Compatible with taping machine assemblies

Model 3504-40 provides the speed and good cost-performance suitable for taping machine systems.

Specifications

Measured parameters	C (capacitance), D (dissipation factor tan δ)
Measurement	120 Hz or 1 kHz
frequencies	Accuracy: ±0.01% or better
Measurement signal level	(1) Constant voltage mode: 100 mV ^{*1} , 500 mV and 1 V CV 1V measurement ranges: up to 70 μF range (1 kHz) up to 0.7 mF range (120 Hz) CV100 mV ^{*1} , CV 500 mV measurement ranges: up to 170 μF range (1 kHz) up to 1.45 mF range (120 Hz)
¹¹ 100 mV in Model 3504-60 only	Signal level accuracy: ±10% ±5 mV (2) Open terminal voltage mode: 100 mV ¹¹ , 500 mV and 1 V Measurement range: Other than the above Output resistance: approx. 5Ω Signal level accuracy: ±10% ±5 mV
Range of measurable values	C: 0.9400 pF to 20.0000 mF D: 0.00001 to 1.999999
Equivalent circuit mode	Series/parallel equivalent-circuit mode (Auto/Manual)
Measurement time	Nominal 2 ms (1 kHz, FAST) (The measurement time differs depending on the measurement frequency and measurement speed that are set.)
Measurement speed	FAST / NORMAL / SLOW
Trigger function	Internal and external trigger sources can be selected.
Trigger delay	0 to 9.999 s (at 0.001 s resolution)
Compensation	Open, Short, Load and Offset compensation, Self-calibrating
Averaging function	1 to 256
Four-terminal contact-checking function*	Detects contact anomalies (open state in four-terminal measurements)
(* 3504-60 only)	Detects contact anomalies (open state in two-terminal

Four-Terminal Contact-Checking Function

The 3504-60 features a 4-terminal contact checking mechanism. Detection of contact errors involving all four terminals, including the POT terminal, ensures improved measured value reliability.

Enhanced Contact-Checking Functions

Contact errors can be detected while measuring by the Low-C Reject and Chatter Detection functions. Yield rates are improved by judging measurement object contact errors as ERR instead of FAIL.

Trigger-synchronous output function	Function to apply a measurement signal only when performing measurement.	
Key-lock function	The key lock can be set and cancelled by key operation on the front panel	
BIN measurement (Not available on the 3504-40)	C; 14 ranks, D-NG, OUT OF BINS Absolute value setting, A% setting	
Memory function	Up to 32,000 measurement values can be stored in the instrument (Downloadable by GP-IB and RS-232C)	
Comparator	C: HI / IN / LO, D: HI / IN / LO Absolute value setting, Δ % setting	
Panel save and load	Up to 99 sets of measurement conditions can be saved. Load method: Key operation, external I/O.	
Audible beeper	The beeper can be set on or off according to the comparator evaluation result ("IN" or "NG") and Bin decision result.	
Interface	Models 3504-50, 3504-60: RS-232C, GP-IB, EXT I/O (standard) Model 3504-40: RS-232C, EXT I/O (standard)	
Printer function	Measurement values can be printed (requires Printer 9442 and optional Connection Cable 9444)	
Display device	LED	
Operating temperature and humidity	0 to 40°C, 80% rh or less (no condensation)	
Storage temperature and humidity	-10 to 55°C, 80% rh or less (no condensation)	
Operating environment	Indoors, up to 2000 m ASL	
Power supply	AC 100 V, 120 V, 220 V, or 240 V±10% (selectable), 50/60 Hz	
Max. power consumption	110 VA max.	
Withstand voltage	Power line to ground, AC 1.69 kV, 15 sec.	
Backup battery life	Approx. 6 years	
Dimensions	Approx. 260 (W) × 100 (H) × 220 (D) mm (10.24" W × 3.94" H × 8.66" D) (excluding protrusions)	
Mass	Approx 38 kg (1340 oz)	

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C HITESTER 3504-60, 3504-50 and 3504-40

Measurement accuracy and range

Temp. and humidity for guaranteed accuracy: 23°C ±5%, 80% rh or less (non-condensating) Warm-up time: 1 h, with open- and short-circuit compensation

■ Measurement area C: 0.9400 pF to 20.0000 mF; D: 0.00001 to 1.99999

Measurement accuracy

Basic accuracy (Accuracy guaranteed for 6 months when $D \le 0.1$, Post-adjustment accuracy guaranteed for 6 months)

Use the following equation to calculate the measurement accuracy.

Measurement accuracy = basic accuracy × B × C × D × E

[B: Measurement signal level coefficient] 1 V and 500 mV: 1, 100 mV: 1.5

[C: Measurement speed coefficient]

FAST: 1.5 NORMAL: 1.0 (at 1k Hz, 1 V), 1.2 (except at 1k Hz, 1 V) SLOW: 1

[D: Cable length coefficient] (using 1.5C-2V cable) 0 m: 1 1 m: 1 (at 1k Hz, 1 V)

1.5 (except at 1k Hz, 1 V)

[E: Temperature coefficient] $1+0.1 \times |t-23|$

t = operating temperature (°C)

Range	C range			Basic accuracy *2		CV opera-
No.	120 Hz	1 kHz	Parameter	120 Hz	1 kHz	tion
1 200 pF	200 F	20 "E	С	±0.20%rdg.±300dgt.	±0.20%rdg.±300dgt.	1
	200 pr	20 pF	D	±0.0120±2/CL	±0.0120±0.25/CL	
0	2 2 nF	200 pF	С	±0.20%rdg.±60dgt.	±0.20%rdg.±60dgt.	1
2 2 nF			D	±0.0020±2.2/CL	±0.0020±0.265/CL	
3	20 nF	2 nF	С	±0.16%rdg.±20dgt.	±0.14%rdg.±20dgt.	
3 20 nF	20 IIF	2 11F	D	±0.0036	±0.0036	
4	4 200 nF	20 nF	С	±0.15%rdg.±15dgt.	±0.13%rdg.±15dgt.	
4 200 nF		20 nF	D	±0.0020	±0.0020	
5	5 2 μF	2 μF 200 nF	С	±0.15%rdg.±15dgt.	±0.13%rdg.±15dgt.	1
5 2 µF			D	±0.0016	±0.0016	
6	6 20 μF 2 μF	20E 2E	С	±0.15%rdg.±15dgt.	±0.09%rdg.±10dgt.	
ο 20 μF		2 μΓ	D	±0.0020	±0.0016	
7	7 200E	20 µF	C ±0.25%r	±0.25%rdg.±20dgt.	±0.13%rdg.±15dgt.	
7 200 μF	20 µF	D	±0.0035	±0.0030		
8 0.7 mF(1V) 1.45 mF(500 mV, 100 mV)	70 μF(1V)	С	±1.2%rdg.±50dgt.	±0.7%rdg.±40dgt.		
	1.45 mF(500 mV, 100 mV)	170 µF(500 mV, 100 mV)	D	±0.0060	±0.0050	
9	2 mF 200 μF	200E	С	±1.2%rdg.±50dgt.	±0.7%rdg.±40dgt.	N/A
		200 µr	D	±0.0060	±0.0050	IN/A
10 20	20 mF	2 mF	С	±2.5%rdg.±50dgt.	±2.0%rdg.±40dgt.	N/A
	20 mF	2 mF	D	±0.0200±0.008×CH	±0.0180±0.08×Ch	IN/A

[CL: Capacitance of component (pF), CH: Capacitance of component (mF)] *2 Accuracy of range nos. 1 and 2 are not guaranteed at 100 mV measurement signal level.

LCR meter for production lines and automated testing



- \pm 0.05% accuracy with wide measurement range (DCR testing, 40Hz to 200kHz, 5mV to 5V, 10uA to 50mA)
- Non-stop testing over mixed measurement conditions such as C-D and ESR at 10 times the speed of previous models (compare with the model 3522-50)
- · Built-in comparator and BIN functions
- Rapid 2ms test time

This product is not supplied with measurement probes or test fixtures. Please select and purchase the measurement probe or test fixture options appropriate for your application separately. All probes are constructed with a 1.5D-2V coaxial cable. For an RS-232C connection: A crossover cable for interconnection can be used. You can use the RS-232C CABLE 9637 without hardware flow control.

Special Model with 100 mV Measurement Signal

Single Device Solution for High Speed Testing and Frequency Sweeping

IMPEDANCE ANALYZER IM3570

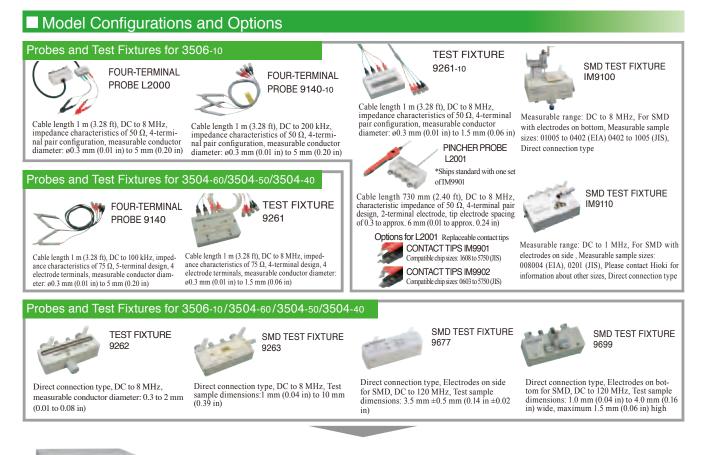


- LCR measurement, DCR measurement, sweep measurement, continuous measurement and high-speed testing achieved with one instrument
- High-speed testing, achieving maximum speeds of 1.5ms (1 kHz) and
- 0.5ms (100kHz) in LCR mode
- + High-accuracy measurements, basic accuracy of Z parameter: $\pm\,0.08\%$

This product is not supplied with measurement probes or test fixtures. Please select and purchase the measurement probe or test fixture options appropriate for your apC METER 3506-10 100 mV special model

100 mV measurement signal level (500 mV measurement signal level not available)

 Ideal for use in applications requiring a low measurement signal level, for example diode junction capacitance measurement



For Low-Magnitude Capacitors





3506-10 Measurement frequencies: 1 kHz and 1 MHz

For High-Magnitude MLCC

Model: C HiTESTER 3504				
Model No. (Order Code)	(Note)			
3504-60	Measurement frequencies: 120 Hz and 1 kHz, constant voltage measurement at 100 mV, 500 mV and 1 V, four-terminal contact-checking function, with GP-IB, RS232C			
3504-50	Measurement frequencies: 120 Hz and 1 kHz, constant voltage measurement at 500 mV and 1 V, with GP-IB, RS232C			
3504-40	Measurement frequencies: 120 Hz and 1 kHz, constant voltage measurement at 500 mV and 1 V, no GP-IB interface, no Bin function, with RS232C interface			

Probe and test fixtures are not supplied with the unit. Select an optional probe and test fixture when ordering.

Printer



(The optional Connection Cable 9444 and AC Adapter are required to connect the Printer 9442.) Measurement values, comparator results, and BIN measurement results can be printed out on the optional Printer 9442 via the standard RS-232C interface. Convenient for applications that require printed data to be attached to inspection results.

■ Printer 9442 specifications

- Printing method: Thermal serial dot printer
- Paper width: 112 mm
- Print speed: 52.5 cps
- Power supply: AC Adapter 9443 or supplied NiMH battery (prints 3000 lines after full charge using 9443)
- Dimensions and weight: Approx. 160W × 66.5H × 170D mm (6.30"W × 2.62"H × 6.69"D), 580 g (20.5 oz)

AC ADAPTER 9443-01	AC ADAPTER 9443-02
(for 9442, Japan)	(for 9442, EU)

 CONNECTION CABLE
 RECORDING PAPER 1196

 9444
 (for 9442, 25 m (984.25"),

 (for 9442)
 10 rolls)

Interface Cable



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