



# MICROTEST

We Make T&M Easier and Better

## Products



### LCR METER

### 6375/6376/6377

#### Key Features

- 0.1% Basic Accuracy
- Up to 1MHz Frequency
- 5 Digits Frequency Step Resolution
- Comprehensive Measurement Functions
- Straight Forward Intuitive Operation
- GPIB and RS-232 Interface
- Unbeatable Performance
- Unbeatable Price

#### • Comprehensive measurement functions

Providing all the well-known measurement parameters :

Impedance  $|Z|$  、 Admittance  $|Y|$  、 Phase Angle ( $\theta$ ) 、 Reactance (X) 、 Conductance (G) 、 Susceptance (B) 、 Inductance (L) 、 Capacitance (C) 、 Quality Factor (Q) 、 Dissipation Factor (D) 、 Resistance (DCR)

#### • Continuous frequency range from 20Hz to 1MHz

Providing a continuous variable frequency from 20Hz to 1MHz, 5 digits resolution, testing all components at the desired test frequency, allowing a component to be test at a actual operating frequency.

#### • Multi step

Tuning voltage, frequency, and testing parameters arbitrarily, making complicated testing become easier.

#### • Fast ! Accurate ! Stable !

Testing components is easy with 6375 Series LCR Meter. Just connect the component and the meter accurately measures the component, displaying selected primary and secondary value with a basic accuracy of 0.1%.

#### • Flexible! Full remote control!

Providing control and output capability, the 6375 Series offers useful interface such as GPIB, RS232 and handler port, making remote control straightforward.

## 6375/6376/6377 LCR METER

Measurement Item		
Measurement parameters		
Z ,  Y , $\theta$ , R, X, G, B, L, C, Q, D, ESR, DCR measurement Circuit : Series/Parallel		
Mathematical Functions		
absolute/percent deviation		
Test Signal Information		
Test Frequency		
6375	20Hz ~ 200kHz	
6376	20Hz ~ 500kHz	
6377	20Hz ~ 1MHz	
Frequency Step Resolution	5 Digits	
Frequency Accuracy	$\pm 0.01\%$	
Output Impedance	100 $\Omega$	
AC Drive Level	10mV 至 2Vrms (1mVrms steps)	
Measurement Range		
Z  R X	0.1m $\Omega$ ~ 100M $\Omega$	
y  G B	10nS ~ 1000S	
C	0.01pF ~ >1F	
L	0.01nH ~ 100KH	
D	0.00001 ~ 9.9999	
Q	0.1 ~ 9999.9	
$\theta$	-180° ~ +180°	
DCR	0.1m $\Omega$ ~ 100M $\Omega$	
$\Delta\%$	-999.99% ~ 999.99%	
Basic Accuracy		
$\pm 0.1\%$  Z , R, X,  Y , G, B, C, L		
Measurement time		
	DC	AC
Max :	30 ms	75 ms
Fast :	60 ms	150 ms
Medium :	120 ms	450 ms
Slow :	500 ms	600 ms

LCD Display	
320x240 Graphic Display	
Correction	
Zero OPEN / SHORT : Eliminates measurement error due to stray parasitic impedances in the test fixtures	
Comparator Function	
High/Pass/Low For each primary measurement parameter and secondary measurement parameter	
Other Functions	
Save/Recall	
64 Multi-step files can be saved/recalled from the internal nonvolatile memory	
Continuous Memory Capability	
If the instrument is turned off, or if a power failure occurs, instrument setting are automatically memorized	
Interface	
RS-232, GPIB, Handler (option)	
General Specifications	
Power Requirement	
Input Voltage	90~132Vac or 198~264Vac(selectable)
Frequency	47~66Hz
Test Environment	
Operation Temperature	10°C to 40°C
Operation Humidity	<95% at 40°C
Size and Weight	
Height	150 mm
Width	340 mm
Depth	460 mm
Weight	6.5 Kg

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