MICROTEST

We Make T&M Easier and Better

Products

Impedance Analyzer

6378/6379

Key Features

- 0.1% Basic Accuracy
- Up to 1MHz Frequency
- 5 Digits Frequency Step Resolution
- Comprehensive Measurement Functions
- Graphical Sweep Mode
- Straight Forward Intuitive Operation
- GPIB, Printer Port Interfaces
- Unbeatable Performance & Price

· Comprehensive measurement functions

Providing all the well-known measurement parameters：
Impendance｜Z｜、Admittance｜Y｜、Phase Angle（θ）、Reactance (X)、Conductance (G)、Susceptance (B)、Inductance (L)、Capacitance (C)、Quality Factor (Q)、Dissipation Factor (D)、Resistance (DCR)

· Continuous frequency range from 20Hz to 10MHz

Providing a continuous variable frequency from 20Hz to 10MHz, 5 digits resolution, testing all components at the desired test frequency, allowing a component to be test at a actual operating frequency.

· Graphical sweep

Graph the parameter against frequency or AC drive level. Characterize a component graphically, helps the engineer understand how the component perform under different conditions.

· Fast ! Accurate ! Stable !

Testing components is easy with 6378 Series Impendance Analyzer. Just connect the component and the analyzer accurately measures the component value displaying selected primary and secondary with a basic accuracy of 0.1%.

· Flexible! Full remote control!

Providing control and output capability, the 6378 Series offers useful interface such as GPIB, RS232 and handler port, making remote control straightforward.

6378/6379 Impendance Analyzer

Measurement Item

MEasurement parameters

| Z | , | Y | , θ , R, X, G, B, L, C, Q, D, ESR, DCR
measurement Circuit：Series/Parallel

Mathematical Functions

absolute/percent deviation

Test Signal Information

Test Frequency

6378	20Hz ~ 5MHz
6379	20Hz ~ 10MHz

Frequncey Step Resolutin	5 Digits
Frequency Accuracy	±0.005%
Output Impendance	100Ω
AC Drive Level	10mV 至 2Vrms (1mVrms steps)

Measurement Range

| Z | R X	0.1mΩ ~ 100MΩ
| y | G B	10nS ~ 1000S
C	0.01pF ~ >1F
L	0.01nH ~ 100KH
D	0.00001 ~ 9.9999
Q	0.1 ~ 9999.9
θ	-180˚ ~ +180˚
DCR	0.1mΩ ~ 100MΩ
△%	-999.99% ~ 999.99%

Basic Accuracy

±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 parasitc impendances in the test fixtures

Comparator Fuction

High/Pass/Low
For each primary measurement parameter and secondary measurement parameter

Other Functions

Save/Recall

64 Multi-step files can be saed/recalled from the internal nonvolatile memory

Continous 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 Specifiations

Power Requirement

Input Voltage	90~132Vac or 198~264Vac(selectable)
Frequency	47~66Hz

Test Environmen

Operation Temperature	10˚C to 40˚C
Operation Humidity	<95% at 40˚C

Size and Weight

Height	150 mm (5.9")
Width	440 mm (17.37")
Depth	525 mm (20.5")
Weight	9 Kg (19.8 lbs)