

## Meguro LCR Meter and Impedance Analyzer Selection Guide

Product Name	LCR Meter		Impedance Analyzer
Model No.	MIM-1201	MIM-1222	MIA-1251
<b>Measurement Parameters &amp; Range</b>			
Z   , R, X	0.01mΩ to 100.00MΩ	0.1mΩ to 100MΩ	0.1mΩ to 100MΩ
Y   , G, B	0.0001nS to 1,000S	10nS to 1,000S	10nS to 1,000S
Cs, Cp	0.01pF to 1F	0.01pF to 1F	0.01pF to 1F
Ls, Lp	0.01 μH to 100kH	0.01nH to 100kH	0.01nH to 100kH
D	0.0001 to 9.9999	0.00001 to 9.9999	0.00001 to 9.9999
Q	0.1 to 9999.9	0.1 to 9999.9	0.1 to 9999.9
Rdc	0.01mΩ to 100.00MΩ	0.1mΩ to 100MΩ	0.1mΩ to 100MΩ
Δ %	-999.99% to 999.99%	-999.99% to 999.99%	-999.99% to 999.99%
θ	-180° to +180°	-180° to +180°	-180° to +180°
Basic Accuracy *1	+/-0.1%	+/-0.1%	+/-0.1%
<b>Test Signal Information</b>			
Test Frequency	100Hz to 100kHz	20Hz to 1MHz	20Hz to 10MHz
Resolution	388 steps	5 digits	5 digits
Frequency Accuracy	+/-0.05%	+/-0.01%	+/-0.005%
Output Impedance	100 Ω	100 Ω	100 Ω
AC Test Voltage	50mV/100mV/250mV/500mV/1V	10mV to 2Vrms (1mVrms steps)	10mV to 2Vrms (1mVrms steps)
DC Test Voltage	0.5V	10mV to 2Vrms (1mVrms steps)	10mV to 2Vrms (1mVrms steps)
Bias Voltage	2V	DC Bias Current Source	DC Bias Current Source
Measurement Speed	DC & AC	DC AC	DC AC
Maximum	N/A	30ms 75ms	30ms 75ms
Fast	200ms	60ms 150ms	60ms 150ms
Medium	330ms	120ms 450ms	120ms 450ms
Low	500ms	500ms 600ms	500ms 600ms
Ranging	Auto/Hold	Auto/Manual	Auto/Manual
Trigger Mode	Internal/Manual/External	Single Shot/Repetitive/External	Single Shot/Repetitive/External
Trimming	Open/Short	Open/Short	Open/Short
Trim. Frequency Rang	All	All/Spot/≤10kHz/≤100kHz	All/Spot/≤10kHz/≤100kHz
<b>Other functions</b>			
Comparator	Absolute/Percentage	Absolute/Percentage	Absolute/Percentage
Beep	Off/Pass/Fail	Off/Pass/Fail	Off/Pass/Fail
Indicator	Pass/Fail LED Indicator	High/Pass/Low (in LCD Display)	High/Pass/Low (in LCD Display)
Multi-Step Measurement	N/A	Standard	Standard
Save & Recall	127 Settings	64 Multi-Step files	64 Multi-Step files
Bar Graph Indicator	N/A	Standard	Standard
Graphic Sweep	N/A	Standard	Standard
Measurement Software	Standard	Standard	Standard
<b>Interfaces</b>			
RS-232C	Standard	Standard	Standard
GP-IB	Optional	Standard	Standard
Handler (EXT I/O)	Optional	Optional	Optional
<b>Hardware Information</b>			
LCD Display	240 × 64 Dot-Matrix	320 × 240 Graphic	320 × 240 Graphic
Operation Temp.	+10°C to +40°C	+10°C to +40°C	+10°C to +40°C
Operation Humidity	<90%	<95% at 40°C	<95% at 40°C
Size (mm)	100(H) × 340(W) × 330(D)	150(H) × 340(W) × 460(D)	150(H) × 440(W) × 525(D)
Weight (kg)	5	6.5	9
<b>Standard Accessories</b>			
AC Power Code	1	1	1

\*1 Basic Accuracy: +/-0.1% = | Z | , R, X, | Y | , G, B, C, L