

MIC-4070D

HAND-HELD LCR METER



The MIC 4070D is an advanced hand-held digital LCR Meter with the ability to measure very low resistance with the 2 Ω range (1m Ω resolution) and high inductances with 200H range and high capacitances with 20,000 μ F range.

MIC-4070D Features

- 0.1 μ H to 200H Inductance Measurement
- 0.1pF to 20,000 μ F Capacitance Measurement
- 1M Ω to 20M Ω Resistance Measurement
- Dissipation Factor Measurement
- Zero Adjustment
- Quick Responding of Measurement

Specifications

MEASUREMENT RANGE & ACCURACY

Capacitance

Range	Accuracy	Resolution	Test Condition
200pf	1%+2	0.1pf	Paralled Mode 1KHz 0.5Vrms
2nf		1pf	
20nf		10pf	
200nf		100pf	
2 μ		1000pf	
20 μ f	2%+10	0.01 μ f	Series Mode 120Hz, 1mArms
200 μ f		0.1mf	Series Mode 120 Hz, 10mArms
2mf		1 μ f	
20mf		10 μ f	

Dissipation Factor

Range		Accuracy		
	2000pf	2nf \leq Cx \leq 2 μ f	μ	20mf

0 ~ 1.999	N.S	1%+10+ $\frac{2000}{C_x}$	2%+20+ $\frac{2000}{C_x}$	N.S
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Cx is capacitance readout in counts.

Accuracy is applied when C is from 20 to 100% of full scale range in series mode measurements.

Inductance

Range	Accuracy	Resolution	Test Condition	
200μH	2%+2	0.1μH	Series Mode	10mArms, 1KHz
2mH	1%+2	1μH		10mArms, 1KHz
20mH		10μH		1mArms, 1KHz
200mH		100μH		0.1mArms, 1KHz
2H	2%+2	1mH	Parallel Mode 120Hz, 0.5Vrms	
20H		10mH		
200H		100mH		

The accuracy is applied from 10 to 100% of full scale range in parallel mode measurements.

Dissipation Factor

Range	Accuracy	
0-1.999	Lx<200mH	200mH<Lx<200H
	1% +10+ $\frac{2000}{C_x}$	2%+20+ $\frac{2000}{L_x}$

Lx is inductance readout in counts.

Accuracy is applied when L is from 20 to 100% of full scale range in parallel mode measurements.

Resistance

Range	Accuracy	Resolution	Test Condition	
2Ω	1%+2	1mΩ	Series Mode 1KHz	10mArms
20Ω		10mΩ		10mArms
200Ω		100mΩ		1mArms
2KΩ		1Ω		0.1mArms
20KΩ		10Ω		10μArms
200KΩ		100Ω		1μArms
2MΩ	2%+2	1KΩ	Parallel Mode 1KHz, 0.5Vrms	
20MΩ		10KΩ		

Accuracy is ± (% of reading + number of digits) and is applied from 10 to 100% of full scale range in parallel mode measurements.



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