

**CERTIFICATE OF
 CALIBRATION**



Certificate No. ACT-1272

CERTIFICATION NUMBER	CP134-00369-840	IDENTIFICATION	EL-014A
FOR	Sample Manufacturing 3121 Medalist Drive Oshkosh, WI 54902	SERIAL NUMBER	369
TEST INSTRUMENT	LCR Meter	PURCHASE ORDER #	
MAKE	IET Labs, Inc.	PROCEDURES FOLLOWED	EL-014A rev. 1
MODEL	DE-5000		
CUSTOMER LOCATION	Location1 Location2	STANDARDS USED	
CONDITION RECEIVED	In Tolerance	INSTRUMENT	SERIAL NUMBER
CONDITION RETURNED	In Tolerance	FVS-692	E1-18111030
CALIBRATED BY	Brian L Gliszinski	FVS-768	C1-1920989
REVIEWED/ISSUED	D.P. 07/29/2025	FVS-769	C1-1920990
CALIBRATION LOCATION	FVM	FVS-772	4681901
ENVIRONMENT	69.0°F, 31.0%RH, 28.92inHg	FVS-942	SYS51C24201785
CALIBRATION DATE	05/14/2025		
RECALIBRATION DUE	05/14/2026		
		TRACE NUMBER	NEXT CAL
		CP090-34791-629	07/31/2025
		C0124-56535-741	07/31/2025
		C0124-55785-741	07/31/2025
		C0201-38368-461	07/31/2025
		CP093-59671-589	07/31/2025



CALIBRATION RESULTS

* DENOTES "OUT OF TOLERANCE"

FEATURE	NOMINAL	LOWER LIMIT	UPPER LIMIT	AS FOUND	AS LEFT	UNCERTAINTY
RESISTANCE @ 100Hz						
200 Ohm Range						
100 Ohm	100.00	98.97	101.03	100.00	100.00	6.0E-3
2 kOhm Range						
1 kOhm	1.0000	0.9968	1.0032	1.0000	1.0000	6.0E-5
20 kOhm Range						
10 kOhm	10.000	9.968	10.032	10.000	10.000	6.0E-4
200 kOhm Range						
100 kOhm	100.00	99.48	100.52	100.00	100.00	6.0E-3
2 MOhm Range						
1 Mohm	1.0000	0.9897	1.0103	1.0000	1.0000	6.0E-5
RESISTANCE (DCR)						
200 Ohm Range						
100 Ohm	100.00	98.97	101.03	100.00	100.00	6.0E-3
2 kOhm Range						
1 kOhm	1.0000	0.9978	1.0022	1.0000	1.0000	6.0E-5
20 kOhm Range						
10 kOhm	10.000	9.978	10.022	10.000	10.000	6.0E-4
200 kOhm Range						
100 kOhm	100.00	99.48	100.52	100.00	100.00	6.0E-3
2 MOhm Range						
1 Mohm	1.0000	0.9897	1.0103	1.0000	1.0000	6.0E-5
20 MOhm Range						
10 MOhm	10.000	9.797	10.203	10.000	10.000	6.0E-4
200 MOhm Range						

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FEATURE	NOMINAL	LOWER LIMIT	UPPER LIMIT	AS FOUND	AS LEFT	UNCERTAINTY
100 MOhm	100.00	97.70	102.30	100.00	100.00	6.0E-3
Capacitance @ 120Hz						
2000pF Range						
1000pF	1000.0	979.7	1020.3	1000.0	1000.0	6.0E-2
20nF Range						
10nF	10.000	9.968	10.032	10.000	10.000	6.0E-4
200nF Range						
100nF	100.00	99.68	100.32	100.00	100.00	6.0E-3
2000nF Range						
1000nF	1000.0	996.8	1003.2	1000.0	1000.0	6.0E-2
20uF Range						
10uF	10.000	9.938	10.062	10.000	10.000	6.0E-4
200uF Range						
100uF	100.00	98.97	101.03	100.00	100.00	6.0E-3
Inductance @ 1 kHz						
2000uH Range						
1000uH	1000.0	979.5	1020.5	1000.0	1000.0	6.0E-2
20mH Range						
10 mH	10.000	9.895	10.105	10.000	10.000	6.0E-4
200mH Range						
100mH	100.00	99.37	100.63	100.00	100.00	6.0E-3
2000mH Range						
1000mH	1000.0	996.8	1003.2	1000.0	1000.0	6.0E-2
Inductance @ 120 Hz						
20H Range						
10H	10.000	9.937	10.063	10.000	10.000	6.0E-4

COMMENTS

Example certificate, actual results and uncertainties will be reported at the time of calibration.
 Nominal and limits may vary based on actual make/model.

■ This certificate shall not be altered in any form or reproduced, except in full, without prior written approval from originating lab. These results relate only to the item(s) calibrated. Form Revision 10: 06/04/2024
 ■ Total expanded measurement uncertainties expressed are based on a confidence level of 95%; coverage factor of (k=2). The statement of compliance in this certificate was issued without taking the uncertainty of measurement into consideration. The customer shall assess the results and uncertainty when determining if the results meet their needs. (This is considered "shared responsibility.") Uncertainties expressed in nominal units.
 ■ The calibrations within the certificate/report are traceable through NIST or another National Metrology Institute to the International System of Units (SI). Calibration was completed in accordance with ISO/IEC 17025:2017, ANSI/NCSL Z540-1-1994 and ANSI/NCSL Z540.3-2006. Other standards listed upon request.