



CALIBRATION REPORT

ORDER NO.

JULY 25, 2019

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MANUFACTURER: Ohm-Labs, Inc.
DESCRIPTION: INDUCTIVE DIVIDER
MODEL: HVT-100
SERIAL:

PROCEDURE: HV CAL
LAB ENVIRONMENT: 22.5 °C / 48 %RH
CALIBRATION DATE: 25/JUL/2019
CALIBRATION DUE:

NOTES:

PLEASE SEE PAGE 2 FOR MEASUREMENT DATA.
DIVIDER WAS ALLOWED TO STABILIZE AT EACH APPLIED VOLTAGE. ACTUAL APPLIED VOLTAGES WERE WITHIN 1 % OF NOMINAL VALUES LISTED.
THE DIVIDER WAS TESTED ON A 60 CM (24 IN) SQUARE GROUND PLANE.
AC RATIOS WERE AVERAGED FROM A SERIES OF METER READINGS. THE AC VOLTMETER BURDEN ON THE AC OUTPUT OF THE DIVIDER WAS 1 MΩ, SHUNTED BY <180 PF METER AND CABLE.
THE SUPPLIED COAXIAL OUTPUT CABLE WAS USED TO CONNECT TO A VOLTMETER. GROUND WAS CONNECTED TO THE DIVIDER GROUND POST USING 4 AWG CABLE WITH A RING TERMINAL.
A 100 MM (4 IN) FLEXIBLE ALUMINUM TUBE CONNECTED THE UUT TO THE STANDARD. THIS TUBE EXTENDED UPWARDS ABOVE THE UUT FOR APPROXIMATELY 30 CM (12 IN) BEFORE ANGLING ACROSS TO THE STANDARD. THE UUT WAS PLACED ON A GROUNDED PLANE APPROXIMATELY 10 CM (4 IN) OFF OF THE FLOOR. A MINIMUM OF 60 CM (24 IN) CLEARANCE ON ALL SIDES WAS ALLOWED TO REDUCE GROUND PLANE COUPLING.

STANDARDS USED

Table with 4 columns: ID, DESCRIPTION, MAKE & MODEL, CAL DUE. Rows include AS3730 (INDUCTIVE DIVIDER), AS3530 (STD METER), and AS3531 (UUT METER).

COMMENTS:

OHM-LABS, INC. CERTIFIES THAT THIS CALIBRATION IS TRACEABLE TO THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST), OR ANOTHER RECOGNIZED NATIONAL MEASUREMENT INSTITUTE, OR DERIVED BY A RATIO TYPE SELF-CALIBRATION TECHNIQUE, AND IS ACCREDITED TO ISO/IEC 17025. OHM-LABS' QUALITY CONTROL SYSTEM MEETS THE REQUIREMENTS OF ANSI/NC SL Z540-1-1994. THE REPORTED UNCERTAINTIES REPRESENT EXPANDED UNCERTAINTIES EXPRESSED AT A CONFIDENCE LEVEL OF APPROXIMATELY 95 %, USING A COVERAGE FACTOR OF K=2. THIS UNCERTAINTY IS AT THE TIME OF TEST ONLY AND DOES NOT TAKE INTO ACCOUNT TRANSIT, USAGE, DRIFT OVER TIME, OR OTHER FACTORS AFFECTING STABILITY. THIS DOCUMENT RELATES ONLY TO THE ITEMS IDENTIFIED HEREIN, AND IS IN COMPLIANCE WITH ALL REQUIREMENTS OF THE ABOVE REFERENCED PURCHASE ORDER. THE CALIBRATION PERFORMED WAS IN ACCORDANCE WITH THE CURRENT REVISION LEVEL OF OHM-LABS' QUALITY CONTROL SYSTEM. TRAINED AND QUALIFIED PERSONNEL PERFORMED THE CALIBRATIONS IN ACCORDANCE WITH THE REQUIREMENTS OF ISO/IEC 17025. THIS CERTIFICATE SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT WRITTEN PERMISSION OF OHM-LABS, INC.

PERFORMED BY:

REVIEWED BY:





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MANUFACTURER: Ohm-Labs

MODEL: HVT-100

SERIAL: 345

MEASUREMENT DATA – AS FOUND & AS LEFT

NOMINAL VOLTAGE RMS 60 HZ	ACTUAL APPLIED VOLTAGE	UUT OUTPUT VOLTAGE	UUT DIVIDER RATIO	RATIO UNCERTAINTY
20kV	19.999 kV	24.666 V	810.80 : 1	0.42 : 1
40	39.998	49.334	810.76	0.42
60	59.992	73.996	810.75	0.44
80	79.996	98.668	810.76	0.43
100	99.987	123.311	810.86	0.43

END OF REPORT