

Calibration Certificate No. 29588/V

Manufacturer: Meatest**Model Type Number:** 9000**Serial Number:** 780121**Customer:****Date of Calibration:** 05.09.2024**Place of Calibration:** Calibration laboratory Meatest, Zelezna 3, CZ-619 00 Brno**Number of Pages:** 6**Page:** 1

The instrument has been calibrated in accordance with the manufacturer's User's manual using standards that are traceable to National or International Standards or have been derived by approved ratio techniques.

The measurement uncertainties stated in this document have been determined according EA-4/02. They were estimated as expanded uncertainty obtained multiplying the standard uncertainty by the coverage factor $k=2$ with confidence level of 95%.

The measurement results relate only to the calibrated items and do not carry any implication regarding long term stability of the instrument.

Seal	Date of Issue	Head of Calibration Laboratory	Person in Charge
	06.09.2024	Ing. Michal Sitta	Jiří Štourač

Range of Calibration:	AC/DC voltage, AC/DC current DC resistance, capacitance, frequency.
Calibration Conditions:	Temperature (24.2 ± 1) °C Humidity (36 ± 15) %
Calibration Procedure:	Automatic calibration according to the test procedure 9000 TR
Applied Standards:	F8588A sn480576173, E4980AL snMY54413852, M205 sn722021, 53210A snMY61360248

The following pages contain the calibration results with column indicating the instrument performance relative to the stated specification.

The column headed "%spe" is the measured error as percentage of the stated specification with no allowance being made for the calibration uncertainty.

Measurement Results:

Function	Range	Standard	UUT	Deviation	%spe	Allowed	Uncertainty	
DC Voltage								
VDC	10 mV	-10.00062 mV	-10.00000 mV	0.62 uV	8	8.00 uV	0.29 uV	ok
VDC	10 mV	-5.00075 mV	-5.00000 mV	0.75 uV	11	7.00 uV	0.26 uV	ok
VDC	10 mV	-1.00067 mV	-1.00000 mV	0.67 uV	11	6.20 uV	0.25 uV	ok
VDC	10 mV	0.99930 mV	1.00000 mV	0.70 uV	11	6.20 uV	0.25 uV	ok
VDC	10 mV	4.99950 mV	5.00000 mV	0.50 uV	7	7.00 uV	0.26 uV	ok
VDC	10 mV	9.99980 mV	10.00000 mV	0.20 uV	3	8.00 uV	0.30 uV	ok
VDC	100 mV	-100.00095 mV	-100.00000 mV	0.95 uV	6	16.00 uV	0.83 uV	ok
VDC	100 mV	-50.00040 mV	-50.00000 mV	0.40 uV	4	11.00 uV	0.54 uV	ok
VDC	100 mV	50.00105 mV	50.00000 mV	-1.05 uV	-10	11.00 uV	0.53 uV	ok
VDC	100 mV	100.00148 mV	100.00000 mV	-1.48 uV	-9	16.00 uV	0.82 uV	ok
VDC	1 V	-1.0000029 V	-1.0000000 V	0.0028 mV	4	0.0700 mV	0.0036 mV	ok
VDC	1 V	-0.5000033 V	-0.5000000 V	0.0033 mV	8	0.0400 mV	0.0020 mV	ok
VDC	1 V	0.5000024 V	0.5000000 V	-0.0024 mV	-6	0.0400 mV	0.0020 mV	ok
VDC	1 V	1.0000039 V	1.0000000 V	-0.0039 mV	-6	0.0700 mV	0.0036 mV	ok
VDC	10 V	-10.000118 V	-10.000000 V	0.118 mV	18	0.650 mV	0.033 mV	ok
VDC	10 V	-5.000089 V	-5.000000 V	0.089 mV	25	0.350 mV	0.017 mV	ok
VDC	10 V	-1.1000313 V	-1.1000000 V	0.0312 mV	27	0.1160 mV	0.0039 mV	ok
VDC	10 V	1.1000222 V	1.1000000 V	-0.0222 mV	-19	0.1160 mV	0.0039 mV	ok
VDC	10 V	2.0000238 V	2.0000000 V	-0.0238 mV	-14	0.1700 mV	0.0071 mV	ok
VDC	10 V	3.000039 V	3.0000000 V	-0.039 mV	-17	0.230 mV	0.010 mV	ok
VDC	10 V	4.000053 V	4.0000000 V	-0.053 mV	-18	0.290 mV	0.014 mV	ok
VDC	10 V	5.000057 V	5.0000000 V	-0.057 mV	-16	0.350 mV	0.017 mV	ok
VDC	10 V	6.000076 V	6.0000000 V	-0.076 mV	-19	0.410 mV	0.020 mV	ok
VDC	10 V	7.000089 V	7.0000000 V	-0.089 mV	-19	0.470 mV	0.023 mV	ok
VDC	10 V	8.000106 V	8.0000000 V	-0.106 mV	-20	0.530 mV	0.026 mV	ok
VDC	10 V	9.000109 V	9.0000000 V	-0.109 mV	-18	0.590 mV	0.030 mV	ok
VDC	10 V	10.000121 V	10.0000000 V	-0.121 mV	-19	0.650 mV	0.033 mV	ok
VDC	100 V	-99.99843 V	-100.00000 V	-1.57 mV	-22	7.00 mV	0.51 mV	ok
VDC	100 V	-11.00005 V	-11.00000 V	0.05 mV	3	1.66 mV	0.17 mV	ok
VDC	100 V	10.99996 V	11.00000 V	0.04 mV	3	1.66 mV	0.12 mV	ok
VDC	100 V	49.99986 V	50.00000 V	0.15 mV	4	4.00 mV	0.29 mV	ok
VDC	100 V	99.99946 V	100.00000 V	0.55 mV	8	7.00 mV	0.53 mV	ok
VDC	1.05 kV	-0.9499826 kV	-0.9500000 kV	-0.0174 V	-18	0.0960 V	0.0055 V	ok
VDC	1.05 kV	-0.1499990 kV	-0.1500000 kV	-0.0010 V	-4	0.0240 V	0.0013 V	ok
VDC	1.05 kV	0.1499962 kV	0.1500000 kV	0.0038 V	16	0.0240 V	0.0019 V	ok
VDC	1.05 kV	0.2999911 kV	0.3000000 kV	0.0089 V	24	0.0375 V	0.0022 V	ok
VDC	1.05 kV	0.5999872 kV	0.6000000 kV	0.0128 V	20	0.0645 V	0.0037 V	ok
VDC	1.05 kV	0.9499850 kV	0.9500000 kV	0.0150 V	16	0.0960 V	0.0054 V	ok
AC Voltage								
VAC	10 mV	4.9954 mV; 120Hz	5.0000 mV	4.7 uV	19	25.0 uV	2.4 uV	ok
VAC	10 mV	4.9953 mV; 1kHz	5.0000 mV	4.7 uV	19	25.0 uV	1.2 uV	ok
VAC	10 mV	9.9995 mV; 120Hz	10.0000 mV	0.5 uV	2	30.0 uV	2.7 uV	ok
VAC	10 mV	9.9995 mV; 1kHz	10.0000 mV	0.5 uV	2	30.0 uV	1.6 uV	ok
VAC	100 mV	10.9936 mV; 1kHz	11.0000 mV	6.4 uV	11	61.0 uV	1.6 uV	ok
VAC	100 mV	49.9891 mV; 1kHz	50.0000 mV	10.9 uV	11	100.0 uV	4.5 uV	ok
VAC	100 mV	99.984 mV; 1kHz	100.000 mV	16 uV	11	150 uV	11 uV	ok
VAC	1 V	0.1099836 V; 1kHz	0.1100000 V	0.0164 mV	16	0.1050 mV	0.0095 mV	ok
VAC	1 V	0.499992 V; 1kHz	0.5000000 V	0.008 mV	3	0.300 mV	0.043 mV	ok
VAC	1 V	0.999990 V; 120Hz	1.0000000 V	0.010 mV	2	0.550 mV	0.080 mV	ok
VAC	1 V	0.999999 V; 1kHz	1.0000000 V	0.001 mV	0	0.550 mV	0.080 mV	ok
VAC	1 V	0.99997 V; 5kHz	1.000000 V	0.03 mV	4	0.80 mV	0.13 mV	ok
VAC	1 V	0.99995 V; 10kHz	1.000000 V	0.05 mV	6	0.80 mV	0.13 mV	ok
VAC	1 V	0.99997 V; 50kHz	1.000000 V	0.03 mV	1	6.00 mV	0.65 mV	ok
VAC	1 V	1.00031 V; 100kHz	1.000000 V	-0.31 mV	-5	6.00 mV	0.65 mV	ok
VAC	10 V	1.009913 V; 1kHz	1.0100000 V	0.087 mV	9	1.005 mV	0.081 mV	ok
VAC	10 V	1.99992 V; 1kHz	2.000000 V	0.08 mV	5	1.50 mV	0.21 mV	ok
VAC	10 V	2.99991 V; 1kHz	3.000000 V	0.09 mV	4	2.00 mV	0.28 mV	ok
VAC	10 V	3.99991 V; 1kHz	4.000000 V	0.09 mV	3	2.50 mV	0.35 mV	ok
VAC	10 V	4.99994 V; 1kHz	5.000000 V	0.07 mV	2	3.00 mV	0.43 mV	ok
VAC	10 V	5.99992 V; 1kHz	6.000000 V	0.08 mV	2	3.50 mV	0.50 mV	ok
VAC	10 V	6.99994 V; 1kHz	7.000000 V	0.06 mV	1	4.00 mV	0.58 mV	ok
VAC	10 V	7.99993 V; 1kHz	8.000000 V	0.07 mV	1	4.50 mV	0.65 mV	ok
VAC	10 V	8.99993 V; 1kHz	9.000000 V	0.07 mV	1	5.00 mV	0.72 mV	ok
VAC	10 V	9.99962 V; 60Hz	10.000000 V	0.38 mV	7	5.50 mV	0.80 mV	ok
VAC	10 V	9.99989 V; 120Hz	10.000000 V	0.11 mV	2	5.50 mV	0.80 mV	ok
VAC	10 V	9.99991 V; 1kHz	10.000000 V	0.09 mV	2	5.50 mV	0.80 mV	ok
VAC	10 V	10.00003 V; 5kHz	10.000000 V	-0.3 mV	-3	10.0 mV	1.3 mV	ok
VAC	10 V	10.0018 V; 10kHz	10.000000 V	-1.8 mV	-18	10.0 mV	1.3 mV	ok
VAC	10 V	10.0052 V; 50kHz	10.000000 V	-5.2 mV	-7	10.0 mV	6.5 mV	ok
VAC	10 V	9.9792 V; 100kHz	10.000000 V	-20.8 mV	30	70.0 mV	6.5 mV	ok
VAC	100 V	10.99804 V; 1kHz	11.000000 V	1.96 mV	13	15.50 mV	0.87 mV	ok
VAC	100 V	49.9933 V; 1kHz	50.000000 V	6.7 mV	19	35.0 mV	4.6 mV	ok
VAC	100 V	100.0096 V; 60Hz	100.000000 V	-9.6 mV	-16	60.0 mV	8.7 mV	ok
VAC	100 V	99.9870 V; 1kHz	100.000000 V	13.0 mV	22	60.0 mV	8.7 mV	ok
VAC	100 V	100.000 V; 5kHz	100.000000 V	0 mV	0	180 mV	11 mV	ok
VAC	100 V	99.999 V; 10kHz	100.000000 V	1 mV	0	180 mV	11 mV	ok
VAC	1 kV	0.149966 kV; 1kHz	0.1500000 kV	0.034 V	11	0.305 V	0.041 V	ok
VAC	1 kV	0.499910 kV; 1kHz	0.5000000 kV	0.090 V	16	0.550 V	0.077 V	ok

Measurement Results:

Function	Range	Standard	UUT	Deviation	%spe	Allowed	Uncertainty	
VAC	1 kV	0.500023 kV; 3kHz	0.500000 kV	-0.023 V	-1	1.600 V	0.077 V	ok
VAC	1 kV	0.500048 kV; 5kHz	0.500000 kV	-0.048 V	-3	1.600 V	0.078 V	ok
VAC	1 kV	0.95003 kV; 120Hz	0.950000 kV	-0.03 V	-4	0.87 V	0.12 V	ok
VAC	1 kV	0.94984 kV; 1kHz	0.950000 kV	0.16 V	18	0.87 V	0.12 V	ok
VAC	1 kV	0.95014 kV; 2.5kHz	0.950000 kV	-0.14 V	-6	2.50 V	0.12 V	ok
VAC Shap	10 mV	9.9931 mV; 120Hz	10.0000 mV	6.9 uV	8	91.0 uV	4.6 uV	ok
VAC Shap	100 mV	99.9990 mV; 120Hz	100.0000 mV	1.0 uV	0	280.0 uV	8.6 uV	ok
VAC Shap	1 V	1.000054 V; 120Hz	1.000000 V	-0.054 mV	-2	2.170 mV	0.080 mV	ok
VAC Shap	10 V	9.99935 V; 120Hz	10.000000 V	0.65 mV	3	21.07 mV	0.80 mV	ok

DC Current

IDC	200 uA	-189.9992 uA	-190.0000 uA	-0.8 nA	-1	96.0 nA	2.3 nA	ok
IDC	200 uA	-99.9987 uA	-100.0000 uA	-1.3 nA	-2	60.0 nA	1.4 nA	ok
IDC	200 uA	99.9995 uA	100.0000 uA	0.5 nA	1	60.0 nA	1.4 nA	ok
IDC	200 uA	190.0017 uA	190.0000 uA	-1.7 nA	-2	96.0 nA	2.3 nA	ok
IDC	2 mA	-1.900037 mA	-1.900000 mA	0.037 uA	8	0.480 uA	0.021 uA	ok
IDC	2 mA	-1.000007 mA	-1.000000 mA	0.007 uA	2	0.300 uA	0.013 uA	ok
IDC	2 mA	1.000012 mA	1.000000 mA	-0.012 uA	-4	0.300 uA	0.013 uA	ok
IDC	2 mA	1.900048 mA	1.900000 mA	-0.048 uA	-10	0.480 uA	0.021 uA	ok
IDC	20 mA	-19.00034 mA	-19.000000 mA	0.34 uA	10	3.45 uA	0.24 uA	ok
IDC	20 mA	-10.00006 mA	-10.000000 mA	0.06 uA	3	2.10 uA	0.15 uA	ok
IDC	20 mA	10.00011 mA	10.000000 mA	-0.11 uA	-5	2.10 uA	0.15 uA	ok
IDC	20 mA	19.00047 mA	19.000000 mA	-0.47 uA	-14	3.45 uA	0.24 uA	ok
IDC	200 mA	-190.0057 mA	-190.000000 mA	5.7 uA	17	34.5 uA	8.4 uA	ok
IDC	200 mA	-100.0020 mA	-100.000000 mA	2.0 uA	10	21.0 uA	5.0 uA	ok
IDC	200 mA	21.0005 mA	21.000000 mA	-0.5 uA	-6	9.2 uA	2.0 uA	ok
IDC	200 mA	50.0011 mA	50.000000 mA	-1.1 uA	-8	13.5 uA	3.1 uA	ok
IDC	200 mA	100.0028 mA	100.000000 mA	-2.8 uA	-13	21.0 uA	5.0 uA	ok
IDC	200 mA	150.0058 mA	150.000000 mA	-5.8 uA	-20	28.5 uA	6.9 uA	ok
IDC	200 mA	190.0095 mA	190.000000 mA	-9.5 uA	-28	34.5 uA	8.4 uA	ok
IDC	2 A	-1.899935 A	-1.90000000 A	-0.065 mA	-17	0.385 mA	0.067 mA	ok
IDC	2 A	-1.000038 A	-1.00000000 A	0.038 mA	15	0.250 mA	0.035 mA	ok
IDC	2 A	1.000073 A	1.00000000 A	-0.073 mA	-29	0.250 mA	0.035 mA	ok
IDC	2 A	1.900038 A	1.90000000 A	-0.038 mA	-10	0.385 mA	0.067 mA	ok
IDC	20 A	-19.00080 A	-19.00000000 A	0.80 mA	7	11.50 mA	0.68 mA	ok
IDC	20 A	-9.99993 A	-10.00000000 A	-0.07 mA	-1	7.00 mA	0.35 mA	ok
IDC	20 A	9.99994 A	10.00000000 A	0.06 mA	1	7.00 mA	0.35 mA	ok
IDC	20 A	19.00095 A	19.00000000 A	-0.95 mA	-8	11.50 mA	0.68 mA	ok

AC Current

IAC	200 uA	99.939 uA; 1kHz	100.0000 uA	61 nA	24	250 nA	36 nA	ok
IAC	2 mA	0.99986 mA; 1kHz	1.000000 mA	0.14 uA	11	1.20 uA	0.36 uA	ok
IAC	2 mA	1.89957 mA; 1kHz	1.900000 mA	0.43 uA	20	2.10 uA	0.63 uA	ok
IAC	20 mA	9.9986 mA; 120Hz	10.000000 mA	1.4 uA	18	8.0 uA	3.6 uA	ok
IAC	20 mA	9.9988 mA; 1kHz	10.000000 mA	1.2 uA	15	8.0 uA	3.6 uA	ok
IAC	20 mA	9.9993 mA; 10kHz	10.000000 mA	0.7 uA	4	19.0 uA	6.5 uA	ok
IAC	20 mA	10.0015 mA; 20kHz	10.000000 mA	-1.5 uA	-4	40.0 uA	8.9 uA	ok
IAC	20 mA	18.9978 mA; 1kHz	19.000000 mA	2.2 uA	16	14.3 uA	6.3 uA	ok
IAC	200 mA	100.014 mA; 1kHz	100.000000 mA	-14 uA	-18	80 uA	36 uA	ok
IAC	200 mA	190.026 mA; 1kHz	190.000000 mA	-26 uA	-18	143 uA	63 uA	ok
IAC	2 A	0.999953 A; 120Hz	1.00000000 A	0.047 mA	4	1.100 mA	0.092 mA	ok
IAC	2 A	1.000321 A; 1kHz	1.00000000 A	-0.321 mA	-29	1.100 mA	0.092 mA	ok
IAC	2 A	1.90060 A; 1kHz	1.90000000 A	-0.60 mA	-30	2.00 mA	0.17 mA	ok
IAC	20.5 A	9.99823 A; 120Hz	10.00000000 A	1.77 mA	8	23.08 mA	0.87 mA	ok
IAC	20.5 A	9.99718 A; 1kHz	10.00000000 A	2.82 mA	12	23.08 mA	0.87 mA	ok
IAC	20.5 A	19.00000 A; 120Hz	19.00000000 A	-0.0 mA	0	41.1 mA	2.1 mA	ok
IAC	20.5 A	18.9996 A; 1kHz	19.00000000 A	0.4 mA	1	41.1 mA	2.1 mA	ok
IAC Shap	200 uA	189.816 uA; 120Hz	190.000000 uA	184 nA	17	1099 nA	63 nA	ok
IAC Shap	2 mA	1.89889 mA; 120Hz	1.90000000 mA	1.11 uA	24	4.69 uA	0.63 uA	ok
IAC Shap	20 mA	18.9856 mA; 120Hz	19.00000000 mA	14.4 uA	35	40.6 uA	6.3 uA	ok
IAC Shap	200 mA	189.863 mA; 120Hz	190.00000000 mA	137 uA	34	400 uA	63 uA	ok
IAC Shap	2 A	1.89864 A; 120Hz	1.90000000 A	1.36 mA	34	3.99 mA	0.69 mA	ok

Frequency on voltage function

FREQ	100 kHz	0.12000003 kHz; 1V	0.1200000000 kHz	-0.00003 Hz	-5	0.00060 Hz	0.00032 Hz	ok
FREQ	100 kHz	1.00000001 kHz; 1V	1.0000000000 kHz	-0.00001 Hz	0	0.00500 Hz	0.00035 Hz	ok
FREQ	100 kHz	5.00000000 kHz; 1V	5.0000000000 kHz	-0.00000 Hz	0	0.02500 Hz	0.0017 Hz	ok
FREQ	100 kHz	10.00000012 kHz; 1V	10.0000000000 kHz	-0.00012 Hz	0	0.05000 Hz	0.00035 Hz	ok
FREQ	100 kHz	49.9999994 kHz; 1V	50.0000000000 kHz	0.00006 Hz	0	0.25000 Hz	0.0017 Hz	ok
FREQ	100 kHz	99.99999871 kHz; 1V	100.0000000000 kHz	0.00129 Hz	0	0.50000 Hz	0.00036 Hz	ok

Frequency

FREQ	2 MHz	0.01000000007 MHz	0.010000000000 MHz	-0.00000007 kHz	0	0.00005000 kHz	0.00000035 kHz	ok
FREQ	2 MHz	0.04999999994 MHz	0.050000000000 MHz	0.00000006 kHz	0	0.00025000 kHz	0.0000017 kHz	ok
FREQ	2 MHz	0.09999999889 MHz	0.100000000000 MHz	0.00000111 kHz	0	0.00050000 kHz	0.00000035 kHz	ok
FREQ	2 MHz	0.49999999941 MHz	0.500000000000 MHz	0.00000059 kHz	0	0.00250000 kHz	0.0000017 kHz	ok
FREQ	2 MHz	0.99999998844 MHz	1.000000000000 MHz	0.00001156 kHz	0	0.00500000 kHz	0.00000086 kHz	ok
FREQ	2 MHz	1.9999999765 MHz	2.000000000000 MHz	0.0000235 kHz	0	0.01000000 kHz	0.0000014 kHz	ok

Resistance VAR 4W

Measurement Results:

Function	Range	Standard	UUT	Deviation	%spe	Allowed	Uncertainty	
RDC	10 Ohm	-0.0000873 Ohm	0.0000000 Ohm	0.0873 mOhm	1	10.0000 mOhm	0.0057 mOhm	ok
RDC	10 Ohm	9.99959 Ohm	10.00000 Ohm	0.41 mOhm	3	15.00 mOhm	0.11 mOhm	ok
RDC	100 Ohm	29.99953 Ohm	30.00000 Ohm	0.47 mOhm	3	17.50 mOhm	0.31 mOhm	ok
RDC	100 Ohm	100.00054 Ohm	100.00000 Ohm	-0.54 mOhm	-2	35.00 mOhm	0.89 mOhm	ok
RDC	1 kOhm	0.3000000 kOhm	0.3000000 kOhm	0.0000 Ohm	0	0.1000 Ohm	0.0030 Ohm	ok
RDC	1 kOhm	0.9999948 kOhm	1.0000000 kOhm	0.0053 Ohm	2	0.2750 Ohm	0.0088 Ohm	ok
RDC	10 kOhm	3.000005 kOhm	3.000000 kOhm	-0.005 Ohm	-1	0.500 Ohm	0.031 Ohm	ok
RDC	10 kOhm	10.000144 kOhm	10.000000 kOhm	-0.144 Ohm	-9	1.550 Ohm	0.089 Ohm	ok
RDC	100 kOhm	30.00021 kOhm	30.00000 kOhm	-0.21 Ohm	-4	5.00 Ohm	0.31 Ohm	ok
RDC	100 kOhm	100.00025 kOhm	100.00000 kOhm	-0.25 Ohm	-2	15.50 Ohm	0.90 Ohm	ok

Resistance LVR 4W Fixed

LVR_FIX	1 Ohm	0.0000124 Ohm	0.0000129 Ohm	0.0004 mOhm	0	1.0000 mOhm	0.0047 mOhm	ok
LVR_FIX	10 Ohm	9.98174 Ohm	9.98175 Ohm	0.02 mOhm	0	10.00 mOhm	0.11 mOhm	ok
LVR_FIX	33 Ohm	33.32757 Ohm	33.32758 Ohm	0.01 mOhm	0	10.00 mOhm	0.34 mOhm	ok
LVR_FIX	100 Ohm	99.96273 Ohm	99.96231 Ohm	-0.42 mOhm	-3	15.00 mOhm	0.89 mOhm	ok
LVR_FIX	330 Ohm	333.5247 Ohm	333.5246 Ohm	-0.0 mOhm	0	15.0 mOhm	3.3 mOhm	ok
LVR_FIX	1 kOhm	0.9999887 kOhm	0.9999875 kOhm	-0.0012 Ohm	-1	0.1000 Ohm	0.0088 Ohm	ok
LVR_FIX	3.3 kOhm	3.333963 kOhm	3.333947 kOhm	-0.016 Ohm	-5	0.333 Ohm	0.034 Ohm	ok
LVR_FIX	10 kOhm	10.004853 kOhm	10.004880 kOhm	0.028 Ohm	5	0.500 Ohm	0.089 Ohm	ok
LVR_FIX	33 kOhm	33.32966 kOhm	33.32963 kOhm	-0.03 Ohm	-2	1.67 Ohm	0.34 Ohm	ok
LVR_FIX	100 kOhm	99.97260 kOhm	99.97252 kOhm	-0.08 Ohm	-2	5.00 Ohm	0.90 Ohm	ok
LVR_FIX	330 kOhm	332.9159 kOhm	332.9136 kOhm	-2.3 Ohm	-9	25.0 Ohm	4.4 Ohm	ok

Resistance VAR 2W

RDC	10 Ohm	1.996390 Ohm	2.000000 Ohm	3.610 mOhm	3	111.000 mOhm	0.060 mOhm	ok
RDC	10 Ohm	8.99608 Ohm	9.000000 Ohm	3.92 mOhm	3	114.50 mOhm	0.11 mOhm	ok
RDC	100 Ohm	10.99591 Ohm	11.000000 Ohm	4.09 mOhm	4	112.75 mOhm	0.12 mOhm	ok
RDC	100 Ohm	31.99610 Ohm	32.000000 Ohm	3.91 mOhm	3	118.00 mOhm	0.33 mOhm	ok
RDC	100 Ohm	35.00317 Ohm	35.000000 Ohm	-3.17 mOhm	-3	118.75 mOhm	0.35 mOhm	ok
RDC	100 Ohm	99.00259 Ohm	99.000000 Ohm	-2.59 mOhm	-2	134.75 mOhm	0.88 mOhm	ok
RDC	1 kOhm	0.11001280 kOhm	0.11000000 kOhm	-0.01280 Ohm	-8	0.15250 Ohm	0.00097 Ohm	ok
RDC	1 kOhm	0.3200153 kOhm	0.32000000 kOhm	-0.0153 Ohm	-7	0.2050 Ohm	0.0032 Ohm	ok
RDC	1 kOhm	0.3500214 kOhm	0.35000000 kOhm	-0.0214 Ohm	-10	0.2125 Ohm	0.0035 Ohm	ok
RDC	1 kOhm	0.9900158 kOhm	0.99000000 kOhm	-0.0158 Ohm	-4	0.3725 Ohm	0.0087 Ohm	ok
RDC	10 kOhm	1.1000344 kOhm	1.10000000 kOhm	-0.0344 Ohm	-11	0.3150 Ohm	0.0096 Ohm	ok
RDC	10 kOhm	3.200068 kOhm	3.20000000 kOhm	-0.068 Ohm	-11	0.630 Ohm	0.033 Ohm	ok
RDC	10 kOhm	3.500077 kOhm	3.50000000 kOhm	-0.077 Ohm	-11	0.675 Ohm	0.035 Ohm	ok
RDC	10 kOhm	9.900029 kOhm	9.90000000 kOhm	-0.029 Ohm	-2	1.635 Ohm	0.089 Ohm	ok
RDC	100 kOhm	11.000085 kOhm	11.00000000 kOhm	-0.085 Ohm	-4	2.250 Ohm	0.098 Ohm	ok
RDC	100 kOhm	31.99817 kOhm	32.000000 kOhm	1.84 Ohm	34	5.40 Ohm	0.33 Ohm	ok
RDC	100 kOhm	35.00006 kOhm	35.000000 kOhm	-0.06 Ohm	-1	5.85 Ohm	0.36 Ohm	ok
RDC	100 kOhm	98.99342 kOhm	99.000000 kOhm	6.58 Ohm	43	15.45 Ohm	0.89 Ohm	ok
RDC	1 MOhm	0.1499964 MOhm	0.15000000 MOhm	0.0036 kOhm	10	0.0351 kOhm	0.0014 kOhm	ok
RDC	1 MOhm	0.2999889 MOhm	0.30000000 MOhm	0.0111 kOhm	17	0.0651 kOhm	0.0064 kOhm	ok
RDC	1 MOhm	0.4000037 MOhm	0.40000000 MOhm	-0.0037 kOhm	-4	0.0851 kOhm	0.0078 kOhm	ok
RDC	1 MOhm	0.899955 MOhm	0.90000000 MOhm	0.045 kOhm	24	0.185 kOhm	0.012 kOhm	ok
RDC	10 MOhm	1.499970 MOhm	1.50000000 MOhm	0.030 kOhm	3	1.000 kOhm	0.018 kOhm	ok
RDC	10 MOhm	3.00006 MOhm	3.00000000 MOhm	-0.06 kOhm	-3	1.90 kOhm	0.39 kOhm	ok
RDC	10 MOhm	4.00004 MOhm	4.00000000 MOhm	-0.04 kOhm	-2	2.50 kOhm	0.41 kOhm	ok
RDC	10 MOhm	8.99986 MOhm	9.00000000 MOhm	0.14 kOhm	3	5.50 kOhm	0.50 kOhm	ok
RDC	120 MOhm	14.99873 MOhm	15.00000000 MOhm	1.27 kOhm	1	85.00 kOhm	0.54 kOhm	ok
RDC	120 MOhm	30.006 MOhm	30.00000000 MOhm	-6 kOhm	-4	160 kOhm	36 kOhm	ok
RDC	120 MOhm	39.995 MOhm	40.00000000 MOhm	5 kOhm	2	210 kOhm	37 kOhm	ok
RDC	120 MOhm	90.006 MOhm	90.00000000 MOhm	-6 kOhm	-1	460 kOhm	39 kOhm	ok
RDC	600 MOhm	150.011 MOhm	150.00000000 MOhm	-11 kOhm	0	3050 kOhm	42 kOhm	ok
RDC	600 MOhm	300.6 MOhm	300.00000000 MOhm	-589 kOhm	-10	6050 kOhm	3674 kOhm	ok
RDC	600 MOhm	399.7 MOhm	400.00000000 MOhm	326 kOhm	4	8050 kOhm	3732 kOhm	ok
RDC	600 MOhm	599.9 MOhm	600.00000000 MOhm	93 kOhm	1	12050 kOhm	3849 kOhm	ok

Resistance LVR 2W Fixed

LVR_FIX	10 Ohm	0.347304 Ohm	0.349227 Ohm	1.923 mOhm	2	110.000 mOhm	0.049 mOhm	ok
LVR_FIX	10 Ohm	10.27864 Ohm	10.33097 Ohm	52.33 mOhm	48	110.00 mOhm	0.11 mOhm	ok
LVR_FIX	100 kOhm	99.97315 kOhm	99.97287 kOhm	-0.28 Ohm	-6	5.00 Ohm	0.91 Ohm	ok
LVR_FIX	330 kOhm	332.9220 kOhm	332.9140 kOhm	-8.0 Ohm	-32	25.0 Ohm	6.7 Ohm	ok
LVR_FIX	1 MOhm	0.999304 MOhm	0.999284 MOhm	-0.020 kOhm	-20	0.100 kOhm	0.013 kOhm	ok
LVR_FIX	3.3 MOhm	3.49780 MOhm	3.49778 MOhm	-0.02 kOhm	-3	0.87 kOhm	0.40 kOhm	ok
LVR_FIX	10 MOhm	9.97729 MOhm	9.97798 MOhm	0.69 kOhm	14	4.99 kOhm	0.48 kOhm	ok
LVR_FIX	33 MOhm	33.272 MOhm	33.273 MOhm	2 kOhm	5	33 kOhm	37 kOhm	ok
LVR_FIX	100 MOhm	99.966 MOhm	99.968 MOhm	2 kOhm	1	250 kOhm	40 kOhm	ok
LVR_FIX	330 MOhm	333.9 MOhm	334.2 MOhm	268 kOhm	16	1671 kOhm	3694 kOhm	ok

Capacitance 2W Variable

Null performed with offset: 563.0 pF								
C-2W	0 pF	559.3 pF	0.0 pF	3.7 pF	25	15.0 pF	3.3 pF	ok
C-2W	10 nF	2.5559 nF	2.0000 nF	7.1 pF	32	22.0 pF	5.3 pF	ok
C-2W	10 nF	6.0584 nF	5.5000 nF	4.7 pF	14	34.3 pF	8.5 pF	ok
C-2W	10 nF	7.0580 nF	6.5000 nF	5.1 pF	13	37.8 pF	9.5 pF	ok
C-2W	10 nF	9.559 nF	9.0000 nF	4 pF	9	46 pF	12 pF	ok
C-2W	100 nF	15.557 nF	15.0000 nF	6 pF	12	52 pF	18 pF	ok

Measurement Results:

Function	Range	Standard	UUT	Deviation	%spe	Allowed	Uncertainty	
C-2W	100 nF	55.575 nF	55.000 nF	-12 pF	-6	193 pF	49 pF	ok
C-2W	100 nF	65.576 nF	65.000 nF	-13 pF	-6	228 pF	55 pF	ok
C-2W	100 nF	90.583 nF	90.000 nF	-20 pF	-6	315 pF	70 pF	ok
C-2W	1 uF	0.15060 uF	0.15000 uF	-0.04 nF	-7	0.53 nF	0.11 nF	ok
C-2W	1 uF	0.55067 uF	0.55000 uF	-0.10 nF	-5	1.93 nF	0.48 nF	ok
C-2W	1 uF	0.65061 uF	0.65000 uF	-0.04 nF	-2	2.28 nF	0.54 nF	ok
C-2W	1 uF	0.90063 uF	0.90000 uF	-0.07 nF	-2	3.15 nF	0.70 nF	ok
C-2W	10 uF	1.5006 uF	1.5000 uF	-0.1 nF	-1	5.2 nF	1.1 nF	ok
C-2W	10 uF	5.5008 uF	5.5000 uF	-0.2 nF	-1	19.3 nF	4.9 nF	ok
C-2W	10 uF	6.5009 uF	6.5000 uF	-0.3 nF	-1	22.8 nF	5.5 nF	ok
C-2W	10 uF	9.0010 uF	9.0000 uF	-0.5 nF	-2	31.5 nF	7.0 nF	ok
C-2W	100 uF	15.001 uF	15.000 uF	-0 nF	-1	53 nF	11 nF	ok
C-2W	100 uF	55.017 uF	55.000 uF	-16 nF	-8	193 nF	65 nF	ok
C-2W	100 uF	65.015 uF	65.000 uF	-14 nF	-6	227 nF	74 nF	ok
C-2W	100 uF	90.013 uF	90.000 uF	-12 nF	-4	315 nF	96 nF	ok
C-2W	1 mF	0.15000 mF	0.15000 mF	-0.00 uF	0	0.53 uF	0.15 uF	ok
C-2W	1 mF	0.55007 mF	0.55000 mF	-0.07 uF	-4	1.93 uF	0.65 uF	ok
C-2W	1 mF	0.65001 mF	0.65000 mF	-0.01 uF	-1	2.28 uF	0.74 uF	ok
C-2W	1 mF	0.89997 mF	0.90000 mF	0.03 uF	1	3.15 uF	0.97 uF	ok
C-2W	10 mF	1.4998 mF	1.5000 mF	0.2 uF	4	5.3 uF	1.5 uF	ok
C-2W	10 mF	5.4999 mF	5.5000 mF	0.1 uF	0	19.3 uF	7.3 uF	ok
C-2W	10 mF	6.4999 mF	6.5000 mF	0.1 uF	1	22.8 uF	8.3 uF	ok
C-2W	10 mF	8.999 mF	9.000 mF	1 uF	2	31 uF	11 uF	ok
C-2W	120 mF	14.997 mF	15.000 mF	3 uF	3	90 uF	17 uF	ok
C-2W	120 mF	54.999 mF	55.000 mF	1 uF	0	330 uF	73 uF	ok
C-2W	120 mF	64.998 mF	65.000 mF	2 uF	1	390 uF	83 uF	ok
C-2W	120 mF	100.00 mF	100.00 mF	-1 uF	0	600 uF	120 uF	ok

Capacitance 2W Fixed

Null performed with offset: 559.1 pF

C_FIX_2W	0 pF	561.2 pF	0.0 pF	-2.1 pF	-14	15.0 pF	3.6 pF	ok
C_FIX_2W	1 nF	1.5464 nF	0.9855 nF	-1.8 pF	-15	12.3 pF	5.7 pF	ok
C_FIX_2W	3.3 nF	3.8401 nF	3.2818 nF	0.8 pF	3	24.6 pF	6.6 pF	ok
C_FIX_2W	10 nF	10.650 nF	10.091 nF	0 pF	1	35 pF	13 pF	ok
C_FIX_2W	33 nF	33.541 nF	32.971 nF	-10 pF	-9	115 pF	36 pF	ok
C_FIX_2W	100 nF	101.630 nF	101.040 nF	-31 pF	-12	253 pF	77 pF	ok
C_FIX_2W	330 nF	335.37 nF	334.73 nF	-80 pF	-10	837 pF	354 pF	ok
C_FIX_2W	1 uF	1.00119 uF	1.00057 uF	-0.06 nF	-2	2.50 nF	0.76 nF	ok
C_FIX_2W	3.3 uF	3.2748 uF	3.2741 uF	-0.1 nF	-2	8.2 nF	3.5 nF	ok
C_FIX_2W	10 uF	9.8058 uF	9.8050 uF	-0.2 nF	-1	24.5 nF	7.5 nF	ok

Symbol description:

ok ... passed

Statement of Compliance:

Passed