

Calibration Certificate No. 22015/V

Manufacturer: Meatest

Model Type Number: 9010

Serial Number: 750261

Customer:

Date of Calibration: 30.9.2021

Place of Calibration: Calibration laboratory Meatest, Zelezna 3, CZ-619 00 Brno

Number of Pages: 7

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 |
|-------------|----------------------|---------------------------------------|-------------------------|
| | 11.10.2021 | Ing. Karel Volný | Michal Kalina |

Range of Calibration: AC DC voltage, AC DC current
DC resistance, capacitance
AC power, frequency

Calibration Conditions: Temperature (23.8 ± 1) °C
Humidity (28 ± 15) %

Calibration Procedure: Automatic calibration according to the test procedure 9010 TR

Applied Standards: DMM F8588A SN480576176
Switch M205, W-Sensor NRP-18T SN102503
R Decade M632 SN626381
Tester IET 1865+ SNE9-21332918
Chroma 66202 SN662020007910

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 | |
|---------------------|---------|-------------------|---------------|------------|------|-----------|-------------|----|
| SOURCE | | | | | | | | |
| DC Voltage - pasive | | | | | | | | |
| VDC-2WP | 20 mV | 0.99843 mV | 1.00000 mV | 1.57 uV | 51 | 3.08 uV | 0.24 uV | ok |
| VDC-2WP | 20 mV | -1.00158 mV | -1.00000 mV | 1.58 uV | 51 | 3.08 uV | 0.24 uV | ok |
| VDC-2WP | 20 mV | 9.99852 mV | 10.00000 mV | 1.48 uV | 39 | 3.80 uV | 0.29 uV | ok |
| VDC-2WP | 20 mV | -10.00148 mV | -10.00000 mV | 1.48 uV | 39 | 3.80 uV | 0.29 uV | ok |
| VDC-2WP | 20 mV | 18.99876 mV | 19.00000 mV | 1.25 uV | 28 | 4.52 uV | 0.35 uV | ok |
| VDC-2WP | 20 mV | -19.00129 mV | -19.00000 mV | 1.29 uV | 28 | 4.52 uV | 0.35 uV | ok |
| VDC-2WP | 200 mV | 20.99902 mV | 21.00000 mV | 0.99 uV | 25 | 3.95 uV | 0.36 uV | ok |
| VDC-2WP | 200 mV | -21.00122 mV | -21.00000 mV | 1.22 uV | 31 | 3.95 uV | 0.36 uV | ok |
| VDC-2WP | 200 mV | 99.99728 mV | 100.00000 mV | 2.72 uV | 36 | 7.50 uV | 0.82 uV | ok |
| VDC-2WP | 200 mV | -100.00339 mV | -100.00000 mV | 3.39 uV | 45 | 7.50 uV | 0.82 uV | ok |
| VDC-2WP | 200 mV | 189.9979 mV | 190.00000 mV | 2.1 uV | 18 | 11.6 uV | 1.4 uV | ok |
| VDC-2WP | 200 mV | -190.0033 mV | -190.00000 mV | 3.3 uV | 29 | 11.6 uV | 1.4 uV | ok |
| DC Voltage - active | | | | | | | | |
| VDC-2W | 20 mV | 0.99897 mV | 1.00000 mV | 1.03 uV | 5 | 20.22 uV | 0.25 uV | ok |
| VDC-2W | 20 mV | -1.00230 mV | -1.00000 mV | 2.30 uV | 11 | 20.22 uV | 0.30 uV | ok |
| VDC-2W | 20 mV | 18.99891 mV | 19.00000 mV | 1.09 uV | 5 | 24.18 uV | 0.38 uV | ok |
| VDC-2W | 20 mV | -19.00140 mV | -19.00000 mV | 1.40 uV | 6 | 24.18 uV | 0.37 uV | ok |
| VDC-2W | 200 mV | 189.9991 mV | 190.00000 mV | 0.9 uV | 3 | 28.6 uV | 1.4 uV | ok |
| VDC-2W | 200 mV | -190.0011 mV | -190.00000 mV | 1.1 uV | 4 | 28.6 uV | 1.4 uV | ok |
| VDC-2W | 2 V | 1.9000051 V | 1.9000000 V | -0.0050 mV | -7 | 0.0765 mV | 0.0065 mV | ok |
| VDC-2W | 2 V | -1.9000018 V | -1.9000000 V | 0.0018 mV | 2 | 0.0765 mV | 0.0065 mV | ok |
| VDC-2W | 20 V | 2.0100123 V | 2.0100000 V | -0.0123 mV | -11 | 0.1104 mV | 0.0071 mV | ok |
| VDC-2W | 20 V | 4.000027 V | 4.0000000 V | -0.027 mV | -15 | 0.180 mV | 0.014 mV | ok |
| VDC-2W | 20 V | 6.000028 V | 6.0000000 V | -0.028 mV | -11 | 0.250 mV | 0.020 mV | ok |
| VDC-2W | 20 V | 8.000030 V | 8.0000000 V | -0.030 mV | -9 | 0.320 mV | 0.026 mV | ok |
| VDC-2W | 20 V | 10.000051 V | 10.0000000 V | -0.051 mV | -13 | 0.390 mV | 0.033 mV | ok |
| VDC-2W | 20 V | 12.000051 V | 12.0000000 V | -0.051 mV | -11 | 0.460 mV | 0.039 mV | ok |
| VDC-2W | 20 V | 14.000050 V | 14.0000000 V | -0.050 mV | -9 | 0.530 mV | 0.046 mV | ok |
| VDC-2W | 20 V | 16.000057 V | 16.0000000 V | -0.057 mV | -10 | 0.600 mV | 0.052 mV | ok |
| VDC-2W | 20 V | 18.000078 V | 18.0000000 V | -0.078 mV | -12 | 0.670 mV | 0.059 mV | ok |
| VDC-2W | 20 V | -18.000077 V | -18.0000000 V | 0.077 mV | 11 | 0.670 mV | 0.059 mV | ok |
| VDC-2W | 100 V | 100.00094 V | 100.00000 V | -0.94 mV | -21 | 4.45 mV | 0.51 mV | ok |
| VDC-2W | 100 V | -100.00050 V | -100.00000 V | 0.50 mV | 11 | 4.45 mV | 0.51 mV | ok |
| VDC-2W | 280 V | 200.0020 V | 200.00000 V | -2.0 mV | -22 | 8.9 mV | 1.6 mV | ok |
| VDC-2W | 280 V | -200.0013 V | -200.00000 V | 1.2 mV | 14 | 8.9 mV | 1.6 mV | ok |
| VDC-2W | 280 V | 280.0025 V | 280.00000 V | -2.5 mV | -20 | 12.3 mV | 2.0 mV | ok |
| VDC-2W | 280 V | -280.0015 V | -280.00000 V | 1.5 mV | 12 | 12.3 mV | 2.0 mV | ok |
| VDC-2W | 1.05 kV | 0.6000018 kV | 0.6000000 kV | -0.0018 V | -5 | 0.0370 V | 0.0038 V | ok |
| VDC-2W | 1.05 kV | -0.5999994 kV | -0.6000000 kV | -0.0006 V | -2 | 0.0370 V | 0.0036 V | ok |
| VDC-2W | 1.05 kV | 1.0000124 kV | 1.0000000 kV | -0.0124 V | -22 | 0.0570 V | 0.0056 V | ok |
| VDC-2W | 1.05 kV | -1.0000135 kV | -1.0000000 kV | 0.0135 V | 24 | 0.0570 V | 0.0056 V | ok |
| AC Voltage | | | | | | | | |
| VAC-2W | 20 mV | 10.0062 mV; 120Hz | 10.0000 mV | -6.1 uV | -12 | 50.0 uV | 2.9 uV | ok |
| VAC-2W | 20 mV | 10.0057 mV; 1kHz | 10.0000 mV | -5.7 uV | -11 | 50.0 uV | 2.3 uV | ok |
| VAC-2W | 20 mV | 19.0119 mV; 120Hz | 19.0000 mV | -11.9 uV | -18 | 68.0 uV | 2.7 uV | ok |
| VAC-2W | 20 mV | 19.0123 mV; 1kHz | 19.0000 mV | -12.3 uV | -18 | 68.0 uV | 3.1 uV | ok |
| VAC-2W | 200 mV | 20.0133 mV; 1kHz | 20.0000 mV | -13.3 uV | -13 | 100.0 uV | 3.5 uV | ok |
| VAC-2W | 200 mV | 100.0063 mV; 1kHz | 100.0000 mV | -6.3 uV | -3 | 180.0 uV | 8.5 uV | ok |
| VAC-2W | 200 mV | 190.003 mV; 1kHz | 190.0000 mV | -3 uV | -1 | 270 uV | 20 uV | ok |
| VAC-2W | 2 V | 0.200030 V; 1kHz | 0.200000 V | -0.030 mV | -18 | 0.170 mV | 0.021 mV | ok |
| VAC-2W | 2 V | 1.90003 V; 120Hz | 1.900000 V | -0.03 mV | -5 | 0.60 mV | 0.20 mV | ok |
| VAC-2W | 2 V | 1.90005 V; 1kHz | 1.900000 V | -0.05 mV | -9 | 0.60 mV | 0.20 mV | ok |
| VAC-2W | 2 V | 1.90005 V; 10kHz | 1.900000 V | -0.05 mV | -9 | 0.60 mV | 0.30 mV | ok |
| VAC-2W | 2 V | 1.9001 V; 100kHz | 1.900000 V | -0.1 mV | -2 | 4.8 mV | 1.7 mV | ok |
| VAC-2W | 2 V | 1.8989 V; 300kHz | 1.900000 V | 1.1 mV | 11 | 10.5 mV | 7.9 mV | ok |
| VAC-2W | 20 V | 2.00040 V; 1kHz | 2.000000 V | -0.40 mV | -33 | 1.20 mV | 0.21 mV | ok |
| VAC-2W | 20 V | 4.00046 V; 1kHz | 4.000000 V | -0.46 mV | -27 | 1.70 mV | 0.35 mV | ok |
| VAC-2W | 20 V | 6.00052 V; 1kHz | 6.000000 V | -0.52 mV | -24 | 2.20 mV | 0.50 mV | ok |
| VAC-2W | 20 V | 8.00053 V; 1kHz | 8.000000 V | -0.53 mV | -20 | 2.70 mV | 0.65 mV | ok |
| VAC-2W | 20 V | 10.00059 V; 1kHz | 10.000000 V | -0.59 mV | -18 | 3.20 mV | 0.80 mV | ok |
| VAC-2W | 20 V | 12.0005 V; 1kHz | 12.000000 V | -0.5 mV | -14 | 3.7 mV | 1.5 mV | ok |
| VAC-2W | 20 V | 14.0005 V; 1kHz | 14.000000 V | -0.5 mV | -11 | 4.2 mV | 1.7 mV | ok |

Measurement Results:

| Function | Range | Standard | UUT | Deviation | %spe | Allowed | Uncertainty | |
|-----------------------------------|--------|-----------------------|---------------|-----------|------|----------|-------------|----|
| VAC-2W | 20 V | 16.0005 V; 1kHz | 16.0000 V | -0.5 mV | -10 | 4.7 mV | 1.9 mV | ok |
| VAC-2W | 20 V | 17.9997 V; 60Hz | 18.0000 V | 0.3 mV | 5 | 5.2 mV | 2.0 mV | ok |
| VAC-2W | 20 V | 18.0004 V; 120Hz | 18.0000 V | -0.4 mV | -7 | 5.2 mV | 2.0 mV | ok |
| VAC-2W | 20 V | 18.0005 V; 1kHz | 18.0000 V | -0.5 mV | -10 | 5.2 mV | 2.0 mV | ok |
| VAC-2W | 20 V | 18.0000 V; 10kHz | 18.0000 V | 0.0 mV | 0 | 5.2 mV | 2.4 mV | ok |
| VAC-2W | 20 V | 18.004 V; 100kHz | 18.000 V | -4 mV | -9 | 46 mV | 16 mV | ok |
| VAC-2W | 100 V | 90.0029 V; 1kHz | 90.0000 V | -2.9 mV | -10 | 29.3 mV | 7.9 mV | ok |
| VAC-2W | 100 V | 90.018 V; 30kHz | 90.000 V | -18 mV | -30 | 60 mV | 23 mV | ok |
| VAC-2W | 280 V | 200.003 V; 1kHz | 200.000 V | -3 mV | -5 | 72 mV | 46 mV | ok |
| VAC-2W | 280 V | 280.004 V; 1kHz | 280.000 V | -4 mV | -4 | 96 mV | 55 mV | ok |
| VAC-2W | 1 kV | 0.300053 kV; 1kHz | 0.300000 kV | -0.053 V | -25 | 0.211 V | 0.057 V | ok |
| VAC-2W | 1 kV | 0.90011 kV; 1kHz | 0.900000 kV | -0.11 V | -24 | 0.46 V | 0.12 V | ok |
| DC Current | | | | | | | | |
| IDC | 200 uA | 189.9986 uA | 190.0000 uA | 1.4 nA | 1 | 115.0 nA | 2.3 nA | ok |
| IDC | 200 uA | -189.9994 uA | -190.0000 uA | -0.6 nA | -1 | 115.0 nA | 2.3 nA | ok |
| IDC | 2 mA | 1.899992 mA | 1.900000 mA | 0.008 uA | 1 | 0.632 uA | 0.021 uA | ok |
| IDC | 2 mA | -1.900005 mA | -1.900000 mA | 0.005 uA | 1 | 0.632 uA | 0.021 uA | ok |
| IDC | 20 mA | 18.99992 mA | 19.000000 mA | 0.08 uA | 2 | 3.45 uA | 0.24 uA | ok |
| IDC | 20 mA | -19.00001 mA | -19.000000 mA | 0.01 uA | 0 | 3.45 uA | 0.24 uA | ok |
| IDC | 200 mA | 20.0992 mA | 20.1000 mA | 0.8 uA | 8 | 9.0 uA | 1.9 uA | ok |
| IDC | 200 mA | 49.9989 mA | 50.0000 mA | 1.1 uA | 8 | 13.5 uA | 3.1 uA | ok |
| IDC | 200 mA | 99.9984 mA | 100.0000 mA | 1.6 uA | 8 | 21.0 uA | 5.0 uA | ok |
| IDC | 200 mA | 149.9983 mA | 150.0000 mA | 1.7 uA | 6 | 28.5 uA | 6.9 uA | ok |
| IDC | 200 mA | 189.9985 mA | 190.0000 mA | 1.5 uA | 4 | 34.5 uA | 8.4 uA | ok |
| IDC | 200 mA | -189.9995 mA | -190.0000 mA | -0.5 uA | -2 | 34.5 uA | 8.4 uA | ok |
| IDC | 2 A | 0.99998 A | 1.00000 A | 0.02 mA | 7 | 0.33 mA | 0.23 mA | ok |
| IDC | 2 A | -0.99998 A | -1.00000 A | -0.02 mA | -5 | 0.33 mA | 0.23 mA | ok |
| IDC | 20 A | 10.00128 A | 10.00000 A | -1.28 mA | -28 | 4.50 mA | 0.35 mA | ok |
| IDC | 20 A | -10.00047 A | -10.00000 A | 0.47 mA | 10 | 4.50 mA | 0.35 mA | ok |
| IDC | 20 A | 20.00380 A | 20.00000 A | -3.80 mA | -54 | 7.00 mA | 0.70 mA | ok |
| IDC | 20 A | -20.00244 A | -20.00000 A | 2.44 mA | 35 | 7.00 mA | 0.70 mA | ok |
| AC Current | | | | | | | | |
| IAC | 200 uA | 99.992 uA; 1kHz | 100.000 uA | 8 nA | 3 | 300 nA | 36 nA | ok |
| IAC | 2 mA | 1.00001 mA; 1kHz | 1.00000 mA | -0.01 uA | -1 | 1.15 uA | 0.36 uA | ok |
| IAC | 20 mA | 9.9979 mA; 120Hz | 10.0000 mA | 2.1 uA | 30 | 7.0 uA | 3.6 uA | ok |
| IAC | 20 mA | 10.0001 mA; 1kHz | 10.0000 mA | -0.1 uA | -2 | 7.0 uA | 3.6 uA | ok |
| IAC | 20 mA | 10.0011 mA; 10kHz | 10.0000 mA | -1.1 uA | -2 | 64.0 uA | 6.5 uA | ok |
| IAC | 200 mA | 100.000 mA; 1kHz | 100.000 mA | 0 uA | 1 | 70 uA | 36 uA | ok |
| IAC | 2 A | 0.99999 A; 120Hz | 1.00000 A | 0.01 mA | 1 | 0.90 mA | 0.42 mA | ok |
| IAC | 2 A | 1.00000 A; 1kHz | 1.00000 A | 0.00 mA | 0 | 0.90 mA | 0.42 mA | ok |
| IAC | 20 A | 10.0004 A; 60Hz | 10.0000 A | -0.4 mA | -3 | 16.0 mA | 1.1 mA | ok |
| IAC | 20 A | 9.99243 A; 1kHz | 10.00000 A | 7.57 mA | 47 | 16.00 mA | 0.88 mA | ok |
| IAC | 20 A | 20.0021 A; 60Hz | 20.0000 A | -2.1 mA | -8 | 26.0 mA | 1.9 mA | ok |
| IAC | 20 A | 19.9929 A; 1kHz | 20.0000 A | 7.1 mA | 27 | 26.0 mA | 1.9 mA | ok |
| AC Power | | | | | | | | |
| P-AC | 21 kW | 0.002000 kW * | 0.002000 kW | 0.000 W | 1 | 0.046 W | 0.055 W | ok |
| * Conditions: 20V,100mA,60Hz,360° | | | | | | | | |
| P-AC | 21 kW | 0.020002 kW * | 0.020000 kW | -0.002 W | 0 | 0.450 W | 0.055 W | ok |
| * Conditions: 20V,1A,60Hz,360° | | | | | | | | |
| P-AC | 21 kW | 0.200010 kW * | 0.200000 kW | -0.010 W | 0 | 4.600 W | 0.055 W | ok |
| * Conditions: 200V,1A,60Hz,360° | | | | | | | | |
| P-AC | 21 kW | 2.000100 kW * | 2.000000 kW | -0.100 W | 0 | 46.000 W | 0.055 W | ok |
| * Conditions: 200V,10A,60Hz,360° | | | | | | | | |
| P-FACTOR | 1 - | 0.500 - * | 0.500 - | 0 m- | 4 | 2 m- | 11 m- | ok |
| * Conditions: 20V,200mA,60Hz | | | | | | | | |
| P-FACTOR | 1 - | 1.000 - * | 1.000 - | 0 m- | 0 | 2 m- | 11 m- | ok |
| * Conditions: 20V,200mA,60Hz | | | | | | | | |
| P-FACTOR | 1 - | 0.500 -; 20V,2A,60Hz | 0.500 - | 0 m- | 1 | 2 m- | 11 m- | ok |
| P-FACTOR | 1 - | 1.000 -; 20V,2A,60Hz | 1.000 - | 0 m- | 2 | 2 m- | 11 m- | ok |
| P-FACTOR | 1 - | 0.500 -; 20V,10A,60Hz | 0.500 - | 0 m- | 20 | 2 m- | 11 m- | ok |

Measurement Results:

| Function | Range | Standard | UUT | Deviation | %spe | Allowed | Uncertainty | |
|--------------------------------|---------------|--------------------|-----------------|-------------|------|-------------|-------------|----|
| P-FACTOR | 1 - 1.000 -; | 20V,10A,60Hz | 1.000 - | 0 m- | 0 | 2 m- | 11 m- | ok |
| VFC, Equivalent Factor = 1 V/A | | | | | | | | |
| VDC-VFC | 1 V | 0.0000929 V | 0.0001000 V | 0.0071 mV | 1 | 1.0001 mV | 0.0020 mV | ok |
| VDC-VFC | 1 V | 0.00049991 V | 0.00050000 V | 0.00009 mV | 0 | 1.00025 mV | 0.00080 mV | ok |
| VDC-VFC | 1 V | 0.00099464 V | 0.00100000 V | 0.00537 mV | 1 | 1.00050 mV | 0.00068 mV | ok |
| VDC-VFC | 1 V | 0.0049983 V | 0.0050000 V | 0.0017 mV | 0 | 1.0025 mV | 0.0012 mV | ok |
| VDC-VFC | 1 V | 0.00999047 V | 0.01000000 V | 0.00953 mV | 1 | 1.00500 mV | 0.00041 mV | ok |
| VDC-VFC | 1 V | 0.0499888 V | 0.0500000 V | 0.0112 mV | 1 | 1.0250 mV | 0.0014 mV | ok |
| VDC-VFC | 1 V | 0.0999875 V | 0.1000000 V | 0.0125 mV | 1 | 1.0500 mV | 0.0013 mV | ok |
| VDC-VFC | 1 V | 0.4999884 V | 0.5000000 V | 0.0116 mV | 1 | 1.2500 mV | 0.0021 mV | ok |
| VDC-VFC | 1 V | 0.9999962 V | 1.0000000 V | 0.0038 mV | 0 | 1.5000 mV | 0.0037 mV | ok |
| Frequency | | | | | | | | |
| FREQ1 | 200 Hz | 110.000002 Hz | 110.000000 Hz | -0.002 mHz | -1 | 0.275 mHz | 0.038 mHz | ok |
| FREQ1 | 2 kHz | 1.09999971 kHz | 1.10000000 kHz | 0.00029 Hz | 10 | 0.00275 Hz | 0.00036 Hz | ok |
| FREQ1 | 20 kHz | 10.9999971 kHz | 11.0000000 kHz | 0.0029 Hz | 11 | 0.0275 Hz | 0.0036 Hz | ok |
| FREQ1 | 200 kHz | 109.999977 kHz | 110.000000 kHz | 0.023 Hz | 8 | 0.275 Hz | 0.036 Hz | ok |
| FREQ1 | 2 MHz | 1.09999978 MHz | 1.10000000 MHz | 0.00022 kHz | 8 | 0.00275 kHz | 0.00036 kHz | ok |
| FREQ1 | 20 MHz | 10.9999973 MHz | 11.0000000 MHz | 0.0027 kHz | 10 | 0.0275 kHz | 0.0036 kHz | ok |
| FREQ1 | 200 MHz | 190.000090 MHz | 190.000000 MHz | -0.090 kHz | -19 | 0.475 kHz | 0.034 kHz | ok |
| FREQ1 | 400 MHz | 330.000100 MHz | 330.000000 MHz | -0.100 kHz | -12 | 0.825 kHz | 0.050 kHz | ok |
| Scope - sine mode | | | | | | | | |
| V_SCOS | 1.5 Vpk | 0.3493 Vpk; 101kHz | 0.3500 Vpk | 0.7 mVpk | 9 | 7.2 mVpk | 1.0 mVpk | ok |
| V_SCOS | 1.5 Vpk | 0.9953 Vpk; 101kHz | 1.0000 Vpk | 4.7 mVpk | 23 | 20.2 mVpk | 2.9 mVpk | ok |
| V_SCOS | 1.5 Vpk | 0.3502 Vpk; 1MHz | 0.3500 Vpk | -0.2 mVpk | -2 | 9.0 mVpk | 1.0 mVpk | ok |
| V_SCOS | 1.5 Vpk | 1.0061 Vpk; 1MHz | 1.0000 Vpk | -6.1 mVpk | -24 | 25.2 mVpk | 2.9 mVpk | ok |
| V_SCOS | 1.5 Vpk | 0.3492 Vpk; 10MHz | 0.3500 Vpk | 0.8 mVpk | 9 | 9.0 mVpk | 1.0 mVpk | ok |
| V_SCOS | 1.5 Vpk | 1.0042 Vpk; 10MHz | 1.0000 Vpk | -4.2 mVpk | -17 | 25.2 mVpk | 2.9 mVpk | ok |
| V_SCOS | 1.5 Vpk | 0.3505 Vpk; 100MHz | 0.3500 Vpk | -0.5 mVpk | -4 | 11.8 mVpk | 1.0 mVpk | ok |
| V_SCOS | 1.5 Vpk | 1.0082 Vpk; 100MHz | 1.0000 Vpk | -8.2 mVpk | -25 | 33.2 mVpk | 2.9 mVpk | ok |
| V_SCOS | 1.5 Vpk | 0.3455 Vpk; 300MHz | 0.3500 Vpk | 4.5 mVpk | 34 | 13.2 mVpk | 1.2 mVpk | ok |
| V_SCOS | 1.5 Vpk | 0.9951 Vpk; 300MHz | 1.0000 Vpk | 4.9 mVpk | 13 | 37.2 mVpk | 3.4 mVpk | ok |
| V_SCOS | 1.5 Vpk | 0.3488 Vpk; 400MHz | 0.3500 Vpk | 1.2 mVpk | 9 | 13.2 mVpk | 1.2 mVpk | ok |
| V_SCOS | 1.5 Vpk | 1.0049 Vpk; 400MHz | 1.0000 Vpk | -4.9 mVpk | -13 | 37.2 mVpk | 3.5 mVpk | ok |
| Resistance LVR 4W Variable | | | | | | | | |
| RDC-4W | 10 Ohm | 0.999760 Ohm | 1.000000 Ohm | 0.240 mOhm | 10 | 2.300 mOhm | 0.036 mOhm | ok |
| RDC-4W | 10 Ohm | 10.00142 Ohm | 10.000000 Ohm | -1.42 mOhm | -28 | 5.00 mOhm | 0.12 mOhm | ok |
| RDC-4W | 100 Ohm | 99.99832 Ohm | 100.000000 Ohm | 1.68 mOhm | 10 | 17.00 mOhm | 0.89 mOhm | ok |
| RDC-4W | 1 kOhm | 0.9999808 kOhm | 1.0000000 kOhm | 0.0192 Ohm | 19 | 0.1030 Ohm | 0.0089 Ohm | ok |
| RDC-4W | 10 kOhm | 9.999781 kOhm | 10.000000 kOhm | 0.219 Ohm | 21 | 1.030 Ohm | 0.090 Ohm | ok |
| RDC-4W | 100 kOhm | 100.00043 kOhm | 100.000000 kOhm | -0.43 Ohm | -4 | 10.30 Ohm | 0.90 Ohm | ok |
| Resistance LVR 2W Variable | | | | | | | | |
| RDC-2W | 1 MOhm | 0.999986 MOhm | 1.000000 MOhm | 0.014 kOhm | 9 | 0.153 kOhm | 0.013 kOhm | ok |
| RDC-2W | 10 MOhm | 9.99964 MOhm | 10.000000 MOhm | 0.36 kOhm | 18 | 2.03 kOhm | 0.48 kOhm | ok |
| RDC-2W | 100 MOhm | 100.008 MOhm | 100.000 MOhm | -8 kOhm | -4 | 200 kOhm | 39 kOhm | ok |
| RDC-2W | 1 GOhm | 1.0006 GOhm | 1.0000 GOhm | -0.6 MOhm | -6 | 10.0 MOhm | 4.1 MOhm | ok |
| Resistance LVR 4W Fixed | | | | | | | | |
| LVR_FIX | 100 mOhm | -0.4056 mOhm | -0.3643 mOhm | 41.3 uOhm | 2 | 2000.0 uOhm | 4.7 uOhm | ok |
| LVR_FIX | 1 Ohm | 1.003475 Ohm | 1.003469 Ohm | -0.006 mOhm | -2 | 0.301 mOhm | 0.017 mOhm | ok |
| LVR_FIX | 10 Ohm | 10.10420 Ohm | 10.10453 Ohm | 0.33 mOhm | 32 | 1.01 mOhm | 0.11 mOhm | ok |
| LVR_FIX | 100 Ohm | 101.00358 Ohm | 101.00410 Ohm | 0.52 mOhm | 35 | 1.52 mOhm | 0.90 mOhm | ok |
| LVR_FIX | 1 kOhm | 1.000095 kOhm | 1.0000150 kOhm | 0.0055 Ohm | 37 | 0.0150 Ohm | 0.0088 Ohm | ok |
| LVR_FIX | 10 kOhm | 10.000287 kOhm | 10.000290 kOhm | 0.003 Ohm | 2 | 0.150 Ohm | 0.089 Ohm | ok |
| LVR_FIX | 100 kOhm | 100.00439 kOhm | 100.00440 kOhm | 0.01 Ohm | 1 | 1.50 Ohm | 0.90 Ohm | ok |
| Resistance LVR 2W Fixed | | | | | | | | |
| LVR_FIX | 1 MOhm | 1.001112 MOhm | 1.001116 MOhm | 0.004 kOhm | 13 | 0.030 kOhm | 0.013 kOhm | ok |
| LVR_FIX | 10 MOhm | 9.96086 MOhm | 9.96106 MOhm | 0.20 kOhm | 4 | 4.98 kOhm | 0.48 kOhm | ok |
| LVR_FIX | 100 MOhm | 100.163 MOhm | 100.170 MOhm | 6 kOhm | 6 | 100 kOhm | 39 kOhm | ok |

Measurement Results:

| Function | Range | Standard | UUT | Deviation | %spe | Allowed | Uncertainty | |
|----------------------|----------|----------------|----------------|-------------|------|------------|-------------|----|
| LVR_FIX | 1 GOhm | 0.9970 GOhm | 0.9981 GOhm | 1.1 MOhm | 46 | 2.5 MOhm | 4.1 MOhm | ok |
| Capacitance Variable | | | | | | | | |
| C-2W | 1 nF | 0.9019 nF | 0.9000 nF | -1.9 pF | -10 | 19.5 pF | 3.1 pF | ok |
| C-2W | 3.3 nF | 3.1923 nF | 3.2000 nF | 7.7 pF | 25 | 31.0 pF | 5.9 pF | ok |
| C-2W | 10 nF | 9.500 nF | 9.500 nF | 0 pF | 0 | 48 pF | 12 pF | ok |
| C-2W | 33 nF | 31.997 nF | 32.000 nF | 3 pF | 2 | 160 pF | 35 pF | ok |
| C-2W | 100 nF | 95.009 nF | 95.000 nF | -9 pF | -2 | 475 pF | 73 pF | ok |
| C-2W | 330 nF | 320.02 nF | 320.00 nF | -15 pF | -1 | 1600 pF | 345 pF | ok |
| C-2W | 1 uF | 0.94990 uF | 0.95000 uF | 0.10 nF | 2 | 4.75 nF | 0.73 nF | ok |
| C-2W | 3.3 uF | 3.1998 uF | 3.2000 uF | 0.2 nF | 1 | 16.0 nF | 3.5 nF | ok |
| C-2W | 10 uF | 9.4974 uF | 9.5000 uF | 2.6 nF | 5 | 47.5 nF | 7.3 nF | ok |
| C-2W | 33 uF | 31.973 uF | 32.000 uF | 27 nF | 6 | 480 nF | 44 nF | ok |
| C-2W | 100 uF | 94.92 uF | 95.00 uF | 84 nF | 4 | 2375 nF | 101 nF | ok |
| C-2W | 1 mF | 0.9414 mF | 0.9500 mF | 8.6 uF | 30 | 28.5 uF | 1.3 uF | ok |
| C-2W | 10 mF | 9.514 mF | 9.500 mF | -14 uF | -3 | 475 uF | 16 uF | ok |
| C-2W | 120 mF | 95.23 mF | 95.00 mF | -231 uF | -5 | 4750 uF | 177 uF | ok |
| Capacitance Fixed | | | | | | | | |
| C_FIX_2W | 1 nF | 1.0883 nF | 1.0876 nF | -0.7 pF | -3 | 27.2 pF | 3.2 pF | ok |
| C_FIX_2W | 10 nF | 10.479 nF | 10.479 nF | -0 pF | -1 | 37 pF | 13 pF | ok |
| C_FIX_2W | 100 nF | 102.506 nF | 102.487 nF | -19 pF | -7 | 256 pF | 77 pF | ok |
| C_FIX_2W | 1 uF | 0.98082 uF | 0.98143 uF | 0.60 nF | 25 | 2.45 nF | 0.74 nF | ok |
| C_FIX_2W | 10 uF | 9.9897 uF | 9.9883 uF | -1.3 nF | -4 | 35.0 nF | 7.6 nF | ok |
| C_FIX_2W | 100 uF | 101.35 uF | 101.34 uF | -12 nF | -1 | 811 nF | 106 nF | ok |
| Resistance HVR | | | | | | | | |
| HVR | 200 kOhm | 100.01279 kOhm | 100.00000 kOhm | -12.79 Ohm | -6 | 200.00 Ohm | 0.93 Ohm | ok |
| HVR | 1 MOhm | 1.000083 MOhm | 1.000000 MOhm | -0.083 kOhm | -4 | 2.000 kOhm | 0.013 kOhm | ok |
| HVR | 10 MOhm | 10.00048 MOhm | 10.000000 MOhm | -0.48 kOhm | -2 | 30.00 kOhm | 0.48 kOhm | ok |
| HVR | 200 MOhm | 100.006 MOhm | 100.000 MOhm | -6 kOhm | -1 | 500 kOhm | 40 kOhm | ok |
| HVR | 1 GOhm | 1.00143 GOhm | 1.00000 GOhm | -1.43 MOhm | -29 | 5.00 MOhm | 0.29 MOhm | ok |
| HVR | 10 GOhm | 10.010 GOhm | 10.000 GOhm | -10 MOhm | -10 | 100 MOhm | 64 MOhm | ok |
| HVR | 100 GOhm | 96.9 GOhm | 96.6 GOhm | -312 MOhm | -11 | 2899 MOhm | 1119 MOhm | ok |
| Meter | | | | | | | | |
| DC Voltage | | | | | | | | |
| VDC-2W | 12 mV | 9.99864 mV | 9.99784 mV | -0.80 uV | -23 | 3.50 uV | 0.37 uV | ok |
| VDC-2W | 12 mV | -10.00222 mV | -10.00142 mV | 0.81 uV | 23 | 3.50 uV | 0.35 uV | ok |
| VDC-2W | 120 mV | 99.99860 mV | 99.99491 mV | -3.69 uV | -37 | 10.00 uV | 0.85 uV | ok |
| VDC-2W | 120 mV | -100.00160 mV | -100.00157 mV | 0.03 uV | 0 | 10.00 uV | 0.87 uV | ok |
| VDC-2W | 1.2 V | 1.0000040 V | 1.0000250 V | 0.0210 mV | 21 | 0.1000 mV | 0.0036 mV | ok |
| VDC-2W | 1.2 V | -0.9999998 V | -1.0000328 V | -0.0331 mV | -33 | 0.1000 mV | 0.0036 mV | ok |
| VDC-2W | 12 V | 10.000051 V | 10.000317 V | 0.266 mV | 27 | 1.000 mV | 0.033 mV | ok |
| VDC-2W | 12 V | -10.000061 V | -10.000035 V | 0.026 mV | 3 | 1.000 mV | 0.033 mV | ok |
| DC Current | | | | | | | | |
| IDC | 1 mA | 0.50000 mA | 0.49999 mA | -0.006 uA | -3 | 0.200 uA | 0.011 uA | ok |
| IDC | 1 mA | -0.50000 mA | -0.50005 mA | -0.051 uA | -25 | 0.200 uA | 0.011 uA | ok |
| IDC | 2.4 mA | 0.99999 mA | 1.00005 mA | 0.055 uA | 6 | 0.950 uA | 0.019 uA | ok |
| IDC | 2.4 mA | -1.20000 mA | -1.19989 mA | 0.109 uA | 11 | 0.980 uA | 0.019 uA | ok |
| IDC | 2.4 mA | 2.19993 mA | 2.19998 mA | 0.044 uA | 4 | 1.130 uA | 0.071 uA | ok |
| IDC | 24 mA | 9.9999 mA | 9.9994 mA | -0.45 uA | -20 | 2.30 uA | 0.16 uA | ok |
| IDC | 24 mA | -10.0000 mA | -10.0003 mA | -0.29 uA | -12 | 2.30 uA | 0.16 uA | ok |
| IDC | 24 mA | 21.9984 mA | 21.9983 mA | -0.1 uA | -1 | 4.1 uA | 2.0 uA | ok |
| IDC | 24 mA | -22.0001 mA | -22.0001 mA | 0.0 uA | 0 | 4.1 uA | 2.0 uA | ok |
| DC 4W Resistance | | | | | | | | |
| RDC-4W | 2 kOhm | 0.02000 kOhm | 0.02000 kOhm | 0.0038 Ohm | 27 | 0.0140 Ohm | 0.0064 Ohm | ok |
| RDC-4W | 2 kOhm | 0.50000 kOhm | 0.50000 kOhm | 0.003 Ohm | 3 | 0.110 Ohm | 0.018 Ohm | ok |
| RDC-4W | 2 kOhm | 1.00000 kOhm | 1.00000 kOhm | -0.004 Ohm | -2 | 0.210 Ohm | 0.035 Ohm | ok |
| RDC-4W | 2 kOhm | 1.90000 kOhm | 1.89999 kOhm | -0.005 Ohm | -1 | 0.390 Ohm | 0.066 Ohm | ok |
| RDC-4W | 20 kOhm | 3.0000 kOhm | 2.9998 kOhm | -0.20 Ohm | -31 | 0.65 Ohm | 0.12 Ohm | ok |
| RDC-4W | 20 kOhm | 10.0000 kOhm | 9.9993 kOhm | -0.67 Ohm | -32 | 2.05 Ohm | 0.35 Ohm | ok |
| RDC-4W | 20 kOhm | 19.0000 kOhm | 18.9986 kOhm | -1.45 Ohm | -38 | 3.85 Ohm | 0.66 Ohm | ok |

Measurement Results:

| Function | Range | Standard | UUT | Deviation | %spe | Allowed | Uncertain |
|---------------|-------|----------|-----|-----------|------|---------|-----------|
| ----- | | | | | | | |
| ok ... passed | | | | | | | |

Statement of Compliance: Passed