

# CERTIFICATE OF CALIBRATION

Issued By Transmille Ltd.

Certificate Number EXAMPLE

Date of Issue 31 October 2007



Approved Signatory

Page 1 of 11 Pages



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Signatory 1     Signatory 2     Signatory 3

Customer : EXAMPLE

Date Received : 22 October 2007

**Instrument :** System ID : EXAMPLE  
Description : Multi-Product Calibrator  
Manufacturer : Transmille  
Model Number : 3050SP  
Serial Number : EXAMPLE  
Procedure Version : 2.1/V104/N

## Environmental Conditions

Temperature : 20°C +/- 1°C  
Relative Humidity : 50% +/- 20%

Mains Voltage : 230V +/- 12V  
Mains Frequency : 50Hz +/- 1Hz

## Comments

Instrument was allowed to stabilise for at least 12 hours before calibration.  
4 Wire kelvin connections were used for ohms measurements below 10kOhms  
The instrument RS232 interface was used during calibration  
PT100 resistance converted to temperature using BS1904 tables.  
Tests marked # are not UKAS accredited but have been included for completeness.

## Calibration Information

The instrument was calibrated against laboratory standards whose values are traceable to recognised National Standards. The uncertainty limits quoted refer to the measured values only, with no account being taken of the instruments ability to maintain its calibration.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor  $k=2$ , providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

Calibrated By : EXAMPLE

Date of Calibration : 31 October 2007

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to recognised national standards, and to the units of measurement realised at the National Physical Laboratory or other recognised national standards laboratories. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

# CERTIFICATE OF CALIBRATION

UKAS Accredited Calibration Laboratory No. 0324  
**AFTER ADJUSTMENT RESULTS**

Certificate Number  
EXAMPLE

Page 2 of 11 Pages

Test Title	Applied Value	Reading
<b>DC Voltage</b>		
200mV Range	0.000 0mV	-0.0005mV
200mV Range	100.000 0mV	99.996 5mV
200mV Range	200.000 0mV	199.993 5mV
200mV Range	-100.0000mV	-99.9982mV
200mV Range	-200.0000mV	-199.9966mV
2V Range	0.220 000 0V	0.219 996 4V
2V Range	1.000 000 0V	0.999 983 0V
2V Range	2.000 000 0V	1.999 966 7V
2V Range	-0.2200000V	-0.2199879V
2V Range	-1.0000000V	-0.9999813V
2V Range	-2.0000000V	-1.9999736V
20V Range	2.200 000V	2.199 932V
20V Range	10.000 000V	9.999 786V
20V Range	20.000 000V	19.999 597V
20V Range	-2.200000V	-2.199924V
20V Range	-10.000000V	-9.999834V
20V Range	-20.000000V	-19.999705V
200V Range	100.000 00V	99.998 14V
200V Range	200.000 00V	199.996 42V
200V Range	-200.00000V	-199.99727V
200V Range	-100.00000V	-99.99823V
1kV Range	220.000V	219.996V
1kV Range	1 000.000 0V	999.979 4V
1kV Range	-1000.000V	-999.987V
1kV Range	-220.000V	-219.994V
<b>AC Voltage Output Frequency Tests</b>		
10kHz at 2V	10.000 0kHz	10.000 0kHz
100kHz at 2V	100.000 0kHz	99.999 8kHz
<b>AC Voltage</b>		
200mV A.C. : 40Hz	20.000mV	19.987mV
200mV A.C. : 206Hz	20.000mV	19.983mV
200mV A.C. : 20kHz	20.000mV	19.992mV
200mV A.C. : 10Hz #	200.000mV	200.034mV
200mV A.C. : 40Hz	200.000mV	200.064mV
200mV A.C. : 56Hz	200.000mV	200.084mV
200mV A.C. : 206Hz	200.000mV	200.047mV
200mV A.C. : 1kHz	200.000mV	199.993mV
200mV A.C. : 10kHz	200.000mV	199.995mV
200mV A.C. : 20kHz	200.000mV	199.971mV
2V Range : 40Hz	0.210 00V	0.209 84V
2V Range : 206Hz	0.210 00V	0.209 84V
2V Range : 100kHz #	0.210 00V	0.210 33V
2V Range. : 206Hz	1.000 00V	1.000 20V
2V Range : 206Hz	1.500 00V	1.500 30V
2V Range : 10Hz #	2.000 00V	2.000 14V
2V Range : 40Hz	2.000 00V	1.999 91V

# CERTIFICATE OF CALIBRATION

UKAS Accredited Calibration Laboratory No. 0324  
**AFTER ADJUSTMENT RESULTS**

Certificate Number  
EXAMPLE

Page 3 of 11 Pages

Test Title	Applied Value	Reading
2V Range : 56Hz	2.000 00V	2.000 06V
2V Range : 200Hz	2.000 00V	1.999 95V
2V Range: 1kHz	2.000 00V	2.000 23V
2V Range : 5kHz	2.000 00V	2.000 15V
2V Range : 10kHz	2.000 00V	2.000 16V
2V Range : 20kHz	2.000 00V	1.999 86V
2V Range : 50kHz	2.000 00V	1.999 29V
2V Range : 100kHz #	2.000 00V	1.999 10V
20V Range : 40Hz	2.100 0V	2.098 8V
20V Range : 200Hz	2.100 0V	2.098 8V
20V Range : 100kHz #	2.100 0V	2.100 2V
20V Range : 200Hz	10.000 0V	10.000 8V
20V Range : 200Hz	15.000 0V	14.999 2V
20V Range : 10Hz #	20.000 0V	20.001 3V
20V Range : 40Hz	20.000 0V	19.999 1V
20V Range : 56Hz	20.000 0V	20.000 2V
20V Range : 200Hz	20.000 0V	20.001 4V
20V Range : 1kHz	20.000 0V	20.001 1V
20V Range : 5kHz	20.000 0V	20.001 8V
20V Range : 10kHz	20.000 0V	20.001 8V
20V Range : 20kHz	20.000 0V	19.998 9V
20V Range : 100kHz #	20.000 0V	19.993 2V
200V Range : 40Hz	21.000V	20.995V
200V Range : 200Hz	21.000V	20.981V
200V Range : 20kHz	21.000V	20.994V
200V Range : 200Hz	100.000V	100.011V
200V Range : 40Hz	200.000V	199.996V
200V Range : 56Hz	200.000V	200.000V
200V Range : 200Hz	200.000V	200.046V
200V Range : 1000Hz	200.000V	199.983V
200V Range : 10kHz	200.000V	200.038V
200V Range : 20kHz	200.000V	200.047V
1kV Range : 40Hz	210.000V	210.075V
1kV Range : 200Hz	210.000V	209.970V
1kV Range : 10kHz	210.000V	210.059V
1kV Range : 40Hz	700.000V	700.235V
1kV Range : 56Hz	700.000V	700.032V
1kV Range : 1kHz	700.000V	700.004V
1kV Range : 5kHz	700.000V	700.083V
1kV Range : 10kHz	700.000V	700.183V
<b>Linearity - 20V DC Range</b>		
Linearity	19.000 000V	18.999 614V
Linearity	18.000 000V	17.999 623V
Linearity	17.000 000V	16.999 648V
Linearity	16.000 000V	15.999 671V
Linearity	15.000 000V	14.999 709V
Linearity	14.000 000V	13.999 705V
Linearity	13.000 000V	12.999 693V
Linearity	12.000 000V	11.999 761V

# CERTIFICATE OF CALIBRATION

UKAS Accredited Calibration Laboratory No. 0324  
**AFTER ADJUSTMENT RESULTS**

Certificate Number  
EXAMPLE

Page 4 of 11 Pages

Test Title	Applied Value	Reading
Linearity	11.000 000V	10.999 768V
Linearity	9.000 000V	8.999 815V
Linearity	8.000 000V	7.999 832V
Linearity	7.000 000V	6.999 849V
Linearity	6.000 000V	5.999 868V
Linearity	5.000 000V	4.999 886V
Linearity	4.000 000V	3.999 903V
Linearity	3.000 000V	2.999 928V
Linearity	2.100 000V	2.099 940V
Linearity	-19.000000V	-18.999722V
Linearity	-18.000000V	-17.999749V
Linearity	-17.000000V	-16.999757V
Linearity	-16.000000V	-15.999780V
Linearity	-15.000000V	-14.999787V
Linearity	-14.000000V	-13.999797V
Linearity	-13.000000V	-12.999769V
Linearity	-12.000000V	-11.999819V
Linearity	-11.000000V	-10.999817V
Linearity	-9.000000V	-8.999866V
Linearity	-8.000000V	-7.999880V
Linearity	-7.000000V	-6.999888V
Linearity	-6.000000V	-5.999898V
Linearity	-5.000000V	-4.999909V
Linearity	-4.000000V	-3.999922V
Linearity	-3.000000V	-2.999934V
Linearity	-2.100000V	-2.099938V
<b>DC Current</b>		
200uA Range	0.000 0uA	-0.0016uA
200uA Range	100.000 0uA	99.998 1uA
200uA Range	200.000 0uA	199.996 7uA
200uA Range	-100.0000uA	-100.0009uA
200uA Range	-200.0000uA	-200.0018uA
2mA Range	0.210 000mA	0.209 961mA
2mA Range	1.000 000mA	1.000 002mA
2mA Range	2.000 000mA	1.999 972mA
2mA Range	-1.000000mA	-0.999998mA
2mA Range	-2.000000mA	-1.999982mA
20mA Range	5.000 00mA	4.999 83mA
20mA Range	10.000 00mA	9.999 79mA
20mA Range	15.000 00mA	14.999 92mA
20mA Range	20.000 00mA	20.000 10mA
20mA Range	-5.00000mA	-4.99997mA
20mA Range	-10.00000mA	-9.99993mA
20mA Range	-15.00000mA	-15.00019mA
20mA Range	-20.00000mA	-20.00027mA
200mA Range	100.000 0mA	99.996 3mA
200mA Range	200.000 0mA	199.994 8mA
200mA Range	-100.0000mA	-99.9974mA
200mA Range	-200.0000mA	-199.9953mA

# CERTIFICATE OF CALIBRATION

UKAS Accredited Calibration Laboratory No. 0324  
**AFTER ADJUSTMENT RESULTS**

Certificate Number  
EXAMPLE

Page 5 of 11 Pages

Test Title	Applied Value	Reading
2A Range	1.000 000A	0.999 859A
2A Range	2.000 000A	1.999 735A
2A Range	-1.000000A	-0.999893A
2A Range	-2.000000A	-1.999776A
20A Range	10.000 00A	9.999 89A
20A Range	20.000 00A	19.998 66A
20A Range	-20.00000A	-19.99892A
20A Range	-10.00000A	-10.00028A
<b>AC Current</b>		
200uA Rng: 40Hz	25.000uA	24.998uA
200uA Rng: 200Hz	25.000uA	25.000uA
200uA Rng: 10kHz #	25.000uA	25.009uA
200uA Rng: 10Hz #	200.000uA	200.023uA
200uA Rng: 40Hz	200.000uA	200.031uA
200uA Rng: 56Hz	200.000uA	200.023uA
200uA Rng: 1kHz	200.000uA	199.993uA
200uA Rng: 10kHz #	200.000uA	200.029uA
2mA Rng: 40Hz	0.210 00mA	0.209 98mA
2mA Rng: 200Hz	0.210 00mA	0.209 96mA
2mA Rng: 10kHz #	0.210 00mA	0.210 12mA
2mA Rng: 10Hz #	2.000 00mA	1.999 79mA
2mA Rng: 40Hz	2.000 00mA	1.999 89mA
2mA Rng: 56Hz	2.000 00mA	1.999 83mA
2mA Rng: 1kHz	2.000 00mA	1.999 64mA
2mA Rng: 10kHz #	2.000 00mA	1.999 99mA
20mA Rng: 40Hz	2.100 0mA	2.099 3mA
20mA Rng: 200Hz	2.100 0mA	2.099 2mA
20mA Rng: 10kHz #	2.100 0mA	2.099 2mA
20mA Rng: 56Hz	10.000 0mA	10.001 7mA
20mA Rng: 10Hz #	20.000 0mA	19.998 2mA
20mA Rng: 40Hz	20.000 0mA	19.999 5mA
20mA Rng: 1kHz	20.000 0mA	19.997 1mA
20mA Rng: 10kHz #	20.000 0mA	20.000 5mA
200mA Rng: 40Hz	21.000mA	20.999mA
200mA Rng: 200Hz	21.000mA	20.996mA
200mA Rng: 10kHz #	21.000mA	20.983mA
200mA Rng: 10Hz #	200.000mA	199.966mA
200mA Rng: 40Hz	200.000mA	199.978mA
200mA Rng: 56Hz	200.000mA	199.966mA
200mA Rng: 1kHz	200.000mA	199.960mA
200mA Rng: 10kHz #	200.000mA	199.992mA
2A Rng: 40Hz	0.210 00A	0.210 04A
2A Rng: 200Hz	0.210 00A	0.210 00A
2A Rng: 2kHz #	0.210 00A	0.210 00A
2A Rng: 10Hz #	2.000 00A	2.000 07A
2A Rng: 40Hz	2.000 00A	2.000 36A
2A Rng: 56Hz	2.000 00A	2.000 05A

# CERTIFICATE OF CALIBRATION

UKAS Accredited Calibration Laboratory No. 0324  
**AFTER ADJUSTMENT RESULTS**

Certificate Number  
EXAMPLE

Page 6 of 11 Pages

Test Title	Applied Value	Reading
2A Rng: 1kHz	2.000 00A	1.999 54A
2A Rng: 2kHz #	2.000 00A	1.999 73A
20A Rng: 40Hz	2.100 00A	2.099 52A
20A Rng: 200Hz	2.100 00A	2.099 52A
20A Rng: 10Hz #	20.000 00A	19.998 16A
20A Rng: 40Hz	20.000 00A	19.996 88A
20A Rng: 56Hz	20.000 00A	19.996 58A
20A Rng: 100Hz	20.000 00A	19.995 99A
20A Rng: 1kHz #	20.000 00A	19.996 54A
20A Rng: 2kHz #	20.000 00A	20.003 24A

EXAMPLE

# CERTIFICATE OF CALIBRATION

UKAS Accredited Calibration Laboratory No. 0324  
**AFTER ADJUSTMENT RESULTS**

Certificate Number  
EXAMPLE

Page 7 of 11 Pages

Test Title	Applied Value	Reading
<b>2 Wire Resistance measured as value at terminals.</b>		
0 $\Omega$ 2 Wire	0.000 0 $\Omega$	0.189 3 $\Omega$
10 $\Omega$ 2 Wire	10.192 $\Omega$	10.198 $\Omega$
100 $\Omega$ 2 Wire	100.204 $\Omega$	100.203 $\Omega$
1k $\Omega$ 2 Wire	1.000 236k $\Omega$	1.000 220k $\Omega$
10k $\Omega$ 2 Wire	9.999 55k $\Omega$	9.999 49k $\Omega$
100k $\Omega$ 2 Wire	100.117 9k $\Omega$	100.113 4k $\Omega$
1M $\Omega$ 2 Wire	1.000 206M $\Omega$	1.000 219M $\Omega$
10M $\Omega$ 2 Wire	10.000 00M $\Omega$	9.999 47M $\Omega$
100M $\Omega$ 2 Wire	100.126 0M $\Omega$	100.108 9M $\Omega$
<b>4 Wire Ohms Measured relative to Zero</b>		
10 $\Omega$ 4 Wire	10.000 721 $\Omega$	10.001 468 $\Omega$
100 $\Omega$ 4 Wire	100.016 47 $\Omega$	100.013 37 $\Omega$
1k $\Omega$ 4 Wire	1.000 043 6k $\Omega$	1.000 024 2k $\Omega$
10k $\Omega$ 4 Wire	9.999 384k $\Omega$	9.999 277k $\Omega$
100k $\Omega$ 4 Wire	100.117 90k $\Omega$	100.113 14k $\Omega$
<b>Capacitance @ 1kHz Measured Cp up to 1uF, Cs above</b>		
10nF	10.029nF	10.015nF
20nF	20.019nF	19.994nF
50nF	50.220nF	50.120nF
100nF	100.41nF	100.22nF
1uF	0.987 8uF	0.980 3uF
<b>Reference Frequency Output</b>		
Frequency	10.000 000MHz	9.999 979MHz
Frequency	1.000 000 0MHz	1.000 000 5MHz
Frequency	100.000 00kHz	100.000 05kHz
Frequency	50.000 000kHz	50.000 024kHz
Frequency	20.000 000kHz	20.000 009kHz
Frequency	10.000 000kHz	10.000 005kHz
Frequency	1.000 000 0kHz	1.000 000 4kHz
Frequency	100.000 00Hz	100.000 08Hz
<b>Amplitude Output (DC Voltage)</b>		
2mV/Div	12.000 0mV	12.004 9mV
5mV/Div	30.000 0mV	30.003 1mV
10mV/Div	60.000 0mV	60.000 2mV
20mV/Div	120.000mV	120.005mV
50mV/Div	300.000mV	300.001mV
100mV/Div	600.000mV	599.996mV
200mV/Div	1.200 00V	1.199 88V
500mV/Div	3.000 00V	2.999 84V
1V/Div	6.000 00V	5.999 77V
2V/Div	12.000 00V	11.999 03V
5V/Div	30.000 0V	29.997 9V
10V/Div	60.000 0V	59.995 5V
20V/Div	120.000 0V	119.990 7V
<b>Timebase Output</b>		
20ns/Div	50.000 00MHz	49.999 97MHz
50ns/Div	20.000 00MHz	19.999 99MHz
100ns/Div	10.000 00MHz	10.000 00MHz
200ns/Div	5.000 000MHz	5.000 001MHz
500ns/Div	2.000 000MHz	2.000 001MHz

# CERTIFICATE OF CALIBRATION

UKAS Accredited Calibration Laboratory No. 0324  
**AFTER ADJUSTMENT RESULTS**

Certificate Number  
EXAMPLE

Page 8 of 11 Pages

Test Title	Applied Value	Reading
1us/Div	1.000 000MHz	1.000 000MHz
2us/Div	500.000 0kHz	500.000 1kHz
5us/Div	200.000 0kHz	200.000 1kHz
10us/Div	100.000 0kHz	100.000 0kHz
20us/Div	50.000 00kHz	50.000 02kHz
50us/Div	20.000 00kHz	20.000 01kHz
100us/Div	10.000 00kHz	10.000 00kHz
200us/Div	5.000 000kHz	5.000 002kHz
500us/Div	2.000 000kHz	2.000 001kHz
1ms/Div	1.000 000kHz	1.000 000kHz
2ms/Div	500.000 0Hz	500.000 2Hz
5ms/Div	200.000 0Hz	200.000 1Hz
10ms/Div	100.000 0Hz	100.000 0Hz
20ms/Div	50.000 00Hz	50.000 02Hz
50ms/Div	20.000 00Hz	20.000 00Hz
100ms/Div	10.000 00Hz	10.000 00Hz
200ms/Div	5.000 00Hz	5.000 00Hz
500ms/Div	2.000 00Hz	2.000 00Hz
1s/Div	1.000 00Hz	1.000 00Hz

## Bandwidth Level Frequency Measurements

10MHz	10.000 00MHz	10.000 00MHz
100MHz	100.000 00MHz	99.999 98MHz
250MHz	250.000 00MHz	250.000 00MHz

## Bandwidth Level output into 50 ohms Pk-Pk

Level @ 5MHz#	600mV	600mV
Level @ 100MHz#	600mV	600mV
Level @ 250MHz#	600mV	603mV

## 50kHz Reference level

BW ref frequency	50.000kHz	50.000kHz
BW ref frequency	0.213V	0.213V

## Power Option: AC Voltage Measurements (Current out = 3A )

20V Range : 56Hz	20.000V	20.000V
200V Range : 60Hz	50.000V	50.010V
200V Range : 60Hz	100.000V	100.028V
200V Range : 45Hz	200.000V	200.043V
200V Range : 60Hz	200.000V	200.002V
200V Range : 400Hz	200.000V	200.003V
1000V Range : 60Hz	500.000V	500.085V

## Power Option: AC Current (Voltage out = 20V )

20A Rng: 56Hz	3.000 00A	3.000 99A
20A Rng: 56Hz	5.000 00A	5.001 94A
20A Rng: 45Hz	10.000 00A	10.003 81A
20A Rng: 56Hz	10.000 00A	10.003 34A
20A Rng: 400Hz	10.000 00A	9.998 84A
20A Rng: 56Hz	15.000 00A	15.003 35A
2A Rng: 56Hz	2.000 00A	1.999 90A
2A Rng: 56Hz	0.500 00A	0.500 06A

# CERTIFICATE OF CALIBRATION

UKAS Accredited Calibration Laboratory No. 0324  
**AFTER ADJUSTMENT RESULTS**

Certificate Number  
EXAMPLE

Page 9 of 11 Pages

Test Title	Applied Value	Reading
<b>DC Current output on Power ( DC Voltage out = 20V )</b>		
20A DC Rng	20.000 00A	20.003 28A
20A DC Rng	3.000 00A	3.001 40A
2A DC Rng	2.000 00A	1.999 73A
2A DC Rng	0.300 00A	0.300 06A
<b>DC Voltage output on Power ( DC Current = 3Amp)</b>		
20V Range DC	20.000 0V	19.999 6V
200V Range DC	200.000V	199.996V
1000V Range DC	500.000V	499.989V
<b>Phase Angle, Measured at 150V/5A 50Hz AC</b>		
0° Phase Angle#	0.00°	0.00°
60° Phase Angle#	60.00°	60.10°
90° Phase Angle#	90.00°	90.00°

# CERTIFICATE OF CALIBRATION

UKAS Accredited Calibration Laboratory No. 0324  
**AFTER ADJUSTMENT RESULTS**

Certificate Number  
EXAMPLE

Page 10 of 11 Pages

Test Title	Applied Value	Reading
------------	---------------	---------

Uncertainties (See tests marked # for measurements outside UKAS accreditation)

## DC Voltage

0 Volts to 1.1 Volts : 2.6ppm + 1.3uV

1.1 Volts to 1000 Volts : 3.3ppm

## AC Voltage 1mV to 200mV

10Hz to 44Hz : 0.03% + 17uV

45Hz to 999Hz : 0.015% + 17uV

1kHz to 20kHz : 0.015% + 17uV

20kHz to 100kHz : 0.06% + 17uV

## AC Voltage 201mV to 200V

10Hz to 44Hz : 0.015% + 12uV

45Hz to 999Hz : 0.012% + 11uV

1kHz to 20kHz : 0.02% + 11uV

21kHz to 100kHz : 0.03% + 11uV

## AC Voltage 201V to 1000V

30Hz to 44Hz : 0.04%

45Hz to 999Hz : 0.013%

1kHz to 10kHz : 0.021%

## DC Current

0 microamps to 100 microamps : 18ppm + 1nA

101 microamps to 1.00 milliamps : 18ppm + 10nA

1.01 milliamps to 10.0 milliamps : 18ppm + 50nA

10.1 milliamps to 100 milliamps : 33ppm + 0.6uA

101 milliamps to 1 Amp : 0.011% + 1uA

1.01 Amps to 10 Amps : 0.27mA

10.1 Amps to 20 Amps : 0.68mA

## AC Current 25uA to 1A

10Hz to 44Hz : 0.1%

45Hz to 999Hz : 0.02%

1kHz to 10kHz : 0.09%

## AC Current 1.01A to 10A

10Hz to 44Hz : 0.15%

45Hz to 999Hz : 0.025%

1kHz to 5kHz : 0.08%

## AC Current 10.1A to 20A

10Hz to 44Hz : 0.3%

45Hz to 99Hz : 0.04%

100Hz to 1kHz : 0.1%

## Resistance

0Ω to 10Ω : 12ppm + 0.2mΩ

10.1Ω to 100Ω : 14ppm

101Ω to 1kΩ : 11ppm

1.01kΩ to 10kΩ : 10ppm

10.1kΩ to 100kΩ : 13ppm

# CERTIFICATE OF CALIBRATION

UKAS Accredited Calibration Laboratory No. 0324  
**AFTER ADJUSTMENT RESULTS**

Certificate Number  
EXAMPLE

Page 11 of 11 Pages

Test Title	Applied Value	Reading
------------	---------------	---------

*101k $\Omega$  to 1M $\Omega$  : 18ppm  
1.01M $\Omega$  to 10M $\Omega$  : 73ppm  
10.1M $\Omega$  to 100M $\Omega$  : 0.06%  
101M $\Omega$  to 1G $\Omega$  : 0.7%*

**Capacitance**  
*1nF to 1uF ( @ 1kHz ) 2 Terminal : 0.06% + 0.2pF*

**Frequency**  
*1Hz to 10MHz : 1ppm  $\pm$ 1d  
10MHz to 600MHz : 2ppm  $\pm$ 1d*

**Power**  
*Phase Angle : 0.2°*

**Bandwidth Level.**  
*2mV*

*End of results*

EXAMPLE