



TEST DATA OF SUS10483R3 SUCS10483R3

Regulated DC Power Supply
Mar 25, 2005

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COSEL CO.,LTD.

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Model

SUS10483R3/SUCS10483R3

Item

Input Current (by Input Voltage)

Object

1.Graph

—△—

Load 100%

---□---

Load 50%

---○---

Load 0%

Input Current [A]

0.50

0.40

0.30

0.20

0.10

0.00

0

20

40

60

80

Input Voltage [V]

Note: Slanted line shows the range of the rated input voltage.

2.Values

Input Voltage [V]	Input Current [A]		
	Load 0%	Load 50%	Load 100%
0	0.000	0.000	0.000
8	0.000	0.000	0.000
16	0.000	0.000	0.000
24	0.001	0.001	0.001
29	0.013	0.181	0.359
33	0.013	0.160	0.311
36	0.013	0.148	0.284
40	0.013	0.134	0.256
48	0.013	0.111	0.214
60	0.013	0.092	0.174
70	0.014	0.082	0.152
76	0.014	0.077	0.141
80	0.014	0.075	0.135
—	-	-	-
—	-	-	-
—	-	-	-
—	-	-	-
—	-	-	-

BC-3810

Model

SUS10483R3/SUCS10483R3

Item

Input Current (by Load Current)

Temperature

25°C

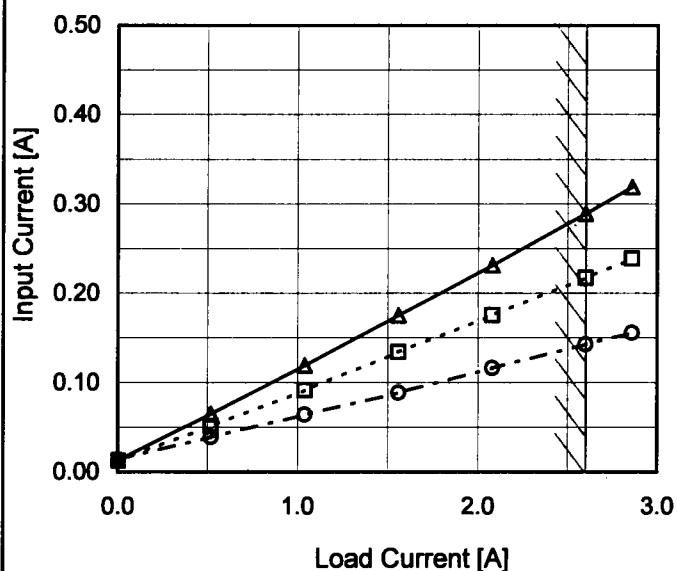
Testing Circuitry

Figure A

Object

1. Graph

—△— Input Volt. 36V
 ---□--- Input Volt. 48V
 - - -○- - - Input Volt. 76V



Note: Slanted line shows the range of the rated load current.

2. Values

Load Current [A]	Input Current [A]		
	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]
0.00	0.013	0.013	0.014
0.52	0.065	0.051	0.039
1.04	0.119	0.092	0.064
1.56	0.175	0.134	0.089
2.08	0.231	0.176	0.116
2.60	0.289	0.217	0.143
2.86	0.319	0.239	0.156
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

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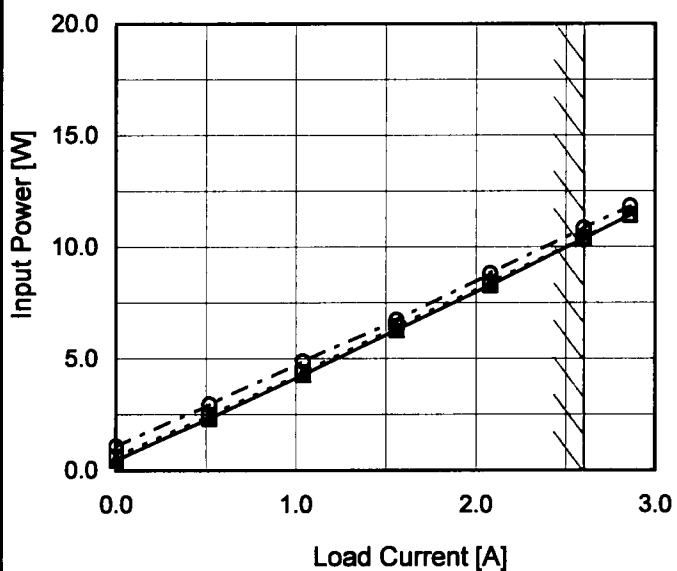
Model SUS10483R3/SUCS10483R3

Item Input Power (by Load Current)

Object
Temperature 25°C
Testing Circuitry Figure A

1. Graph

—△— Input Volt. 36V
 ---□--- Input Volt. 48V
 ---○--- Input Volt. 76V



Note: Slanted line shows the range of the rated load current.

2. Values

Load Current [A]	Input Power [W]		
	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]
0.00	0.46	0.61	1.07
0.52	2.33	2.46	2.96
1.04	4.28	4.38	4.88
1.56	6.29	6.43	6.74
2.08	8.30	8.40	8.83
2.60	10.37	10.40	10.85
2.86	11.44	11.43	11.84
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

Model	SUS10483R3/SUCS10483R3																																																																
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<div><div><div>---</div><div>□</div><div>---</div></div><div>Load 50%</div></div> <div><div>—</div><div>△</div><div>—</div></div> <div>Load 100%</div> <div><table><thead><tr><th>Input Voltage [V]</th><th>Load 50% Efficiency [%]</th><th>Load 100% Efficiency [%]</th></tr></thead><tbody><tr><td>33</td><td>81.9</td><td>82.4</td></tr><tr><td>36</td><td>81.3</td><td>82.6</td></tr><tr><td>40</td><td>80.6</td><td>82.7</td></tr><tr><td>48</td><td>80.8</td><td>82.4</td></tr><tr><td>55</td><td>80.2</td><td>81.9</td></tr><tr><td>60</td><td>78.7</td><td>81.3</td></tr><tr><td>70</td><td>75.3</td><td>80.1</td></tr><tr><td>76</td><td>73.5</td><td>79.2</td></tr><tr><td>80</td><td>72.5</td><td>78.6</td></tr></tbody></table></div> <p>Note: Slanted line shows the range of the rated input voltage.</p>		Input Voltage [V]	Load 50% Efficiency [%]	Load 100% Efficiency [%]	33	81.9	82.4	36	81.3	82.6	40	80.6	82.7	48	80.8	82.4	55	80.2	81.9	60	78.7	81.3	70	75.3	80.1	76	73.5	79.2	80	72.5	78.6	<table><thead><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Efficiency [%]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr></thead><tbody><tr><td>33</td><td>81.9</td><td>82.4</td></tr><tr><td>36</td><td>81.3</td><td>82.6</td></tr><tr><td>40</td><td>80.6</td><td>82.7</td></tr><tr><td>48</td><td>80.8</td><td>82.4</td></tr><tr><td>55</td><td>80.2</td><td>81.9</td></tr><tr><td>60</td><td>78.7</td><td>81.3</td></tr><tr><td>70</td><td>75.3</td><td>80.1</td></tr><tr><td>76</td><td>73.5</td><td>79.2</td></tr><tr><td>80</td><td>72.5</td><td>78.6</td></tr></tbody></table>		Input Voltage [V]	Efficiency [%]		Load 50%	Load 100%	33	81.9	82.4	36	81.3	82.6	40	80.6	82.7	48	80.8	82.4	55	80.2	81.9	60	78.7	81.3	70	75.3	80.1	76	73.5	79.2	80	72.5	78.6
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<div><div><div>—△—</div><div>Input Volt.</div><div>36V</div></div><div><div>- - □ - -</div><div>Input Volt.</div><div>48V</div></div><div><div>- · - ○ - · -</div><div>Input Volt.</div><div>76V</div></div></div> <div><div><div><div>Efficiency [%]</div><div>90</div><div>80</div><div>70</div><div>60</div><div>50</div><div>40</div></div><div><div>0.0</div><div>1.0</div><div>2.0</div><div>3.0</div></div><div><div>0.52</div><div>1.04</div><div>1.56</div><div>2.08</div><div>2.60</div><div>2.86</div></div></div><div><div>Load Current [A]</div><div></div></div></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Efficiency [%]</th></tr><tr><th>Input Volt. 36[V]</th><th>Input Volt. 48[V]</th><th>Input Volt. 76[V]</th></tr><tr><td>0.00</td><td>-</td><td>-</td><td>-</td></tr><tr><td>0.52</td><td>74.4</td><td>70.5</td><td>58.8</td></tr><tr><td>1.04</td><td>80.8</td><td>78.9</td><td>70.9</td></tr><tr><td>1.56</td><td>82.2</td><td>80.4</td><td>76.7</td></tr><tr><td>2.08</td><td>82.9</td><td>81.9</td><td>78.0</td></tr><tr><td>2.60</td><td>82.7</td><td>82.5</td><td>79.2</td></tr><tr><td>2.86</td><td>82.4</td><td>82.5</td><td>79.8</td></tr><tr><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>-</td><td>-</td><td>-</td><td>-</td></tr></table>		Load Current [A]	Efficiency [%]			Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]	0.00	-	-	-	0.52	74.4	70.5	58.8	1.04	80.8	78.9	70.9	1.56	82.2	80.4	76.7	2.08	82.9	81.9	78.0	2.60	82.7	82.5	79.2	2.86	82.4	82.5	79.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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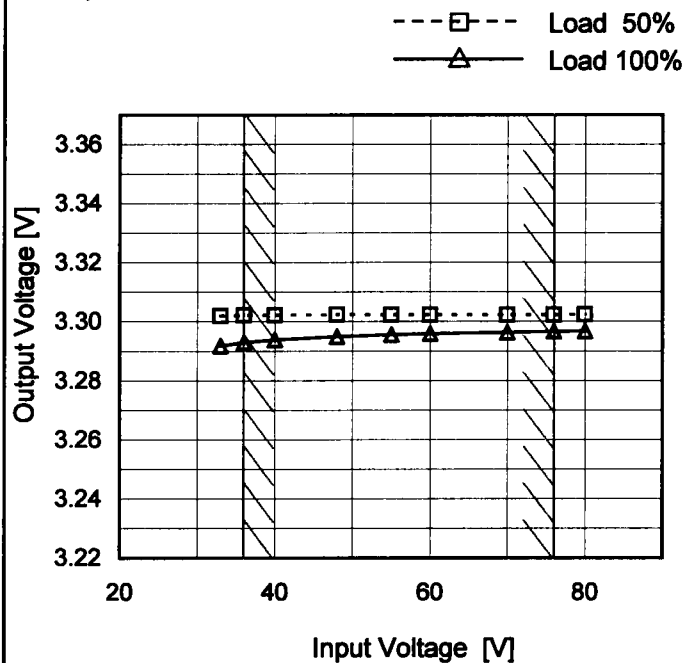
Model SUS10483R3/SUCS10483R3

Item Line Regulation

Object +3.3V2.6A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



Note: Slanted line shows the range of the rated input voltage.

2. Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
33	3.302	3.292
36	3.302	3.293
40	3.302	3.294
48	3.302	3.295
55	3.302	3.296
60	3.302	3.296
70	3.302	3.296
76	3.302	3.297
80	3.302	3.297

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Model SUS10483R3/SUCS10483R3

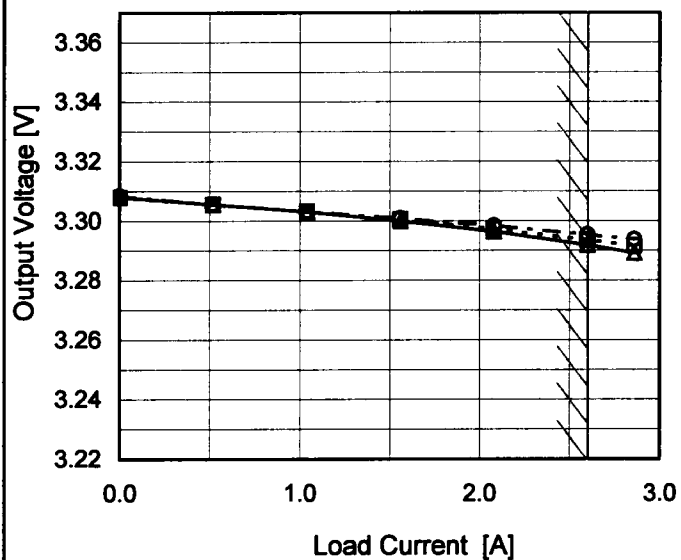
Item Load Regulation

Object +3.3V2.6A

Temperature 25°C
Testing Circuitry Figure A

1. Graph

—△— Input Volt. 36V
 ---□--- Input Volt. 48V
 ---○--- Input Volt. 76V



Note: Slanted line shows the range of the rated load current.

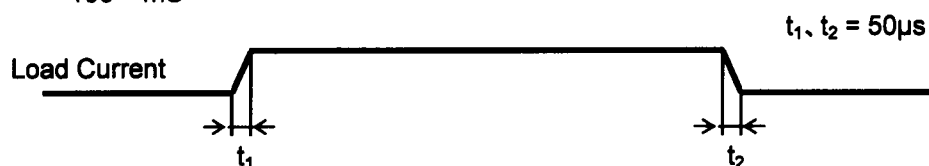
2. Values

Load Current [A]	Output Voltage [V]		
	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]
0.00	3.308	3.308	3.309
0.52	3.306	3.306	3.306
1.04	3.303	3.303	3.303
1.56	3.300	3.301	3.301
2.08	3.296	3.297	3.298
2.60	3.292	3.294	3.295
2.86	3.289	3.292	3.294
—	—	—	—
—	—	—	—
—	—	—	—
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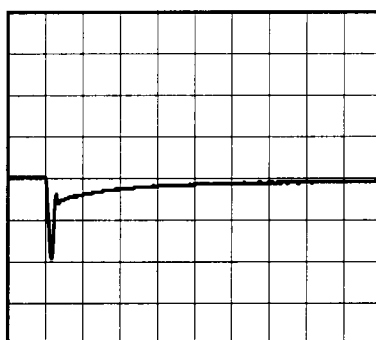
Model	SUS10483R3/SUCS10483R3	Temperature	25°C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	+3.3V2.6A		

Input Volt. 48 V
Cycle 100 mS

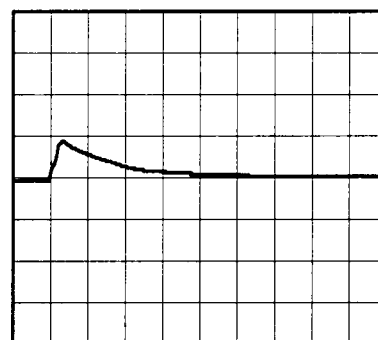


Min. Load (0A) \longleftrightarrow
Load 100% (2.6A)

200mV/div



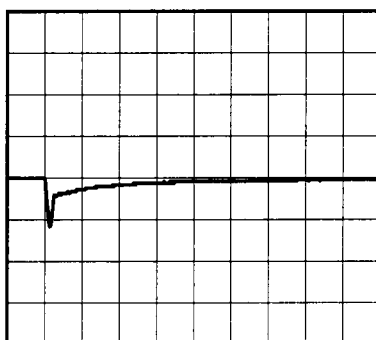
200µs/div



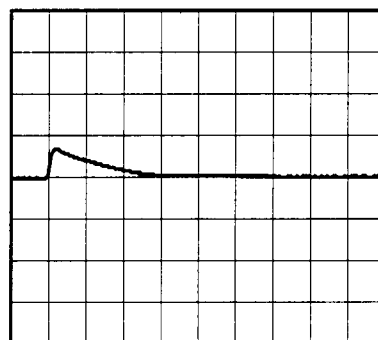
200µs/div

Min. Load (0A) \longleftrightarrow
Load 50% (1.3A)

200mV/div



200µs/div



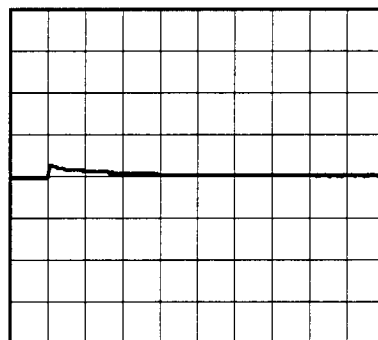
200µs/div

Load 50% (1.3A) \longleftrightarrow
Load 100% (2.6A)

200mV/div

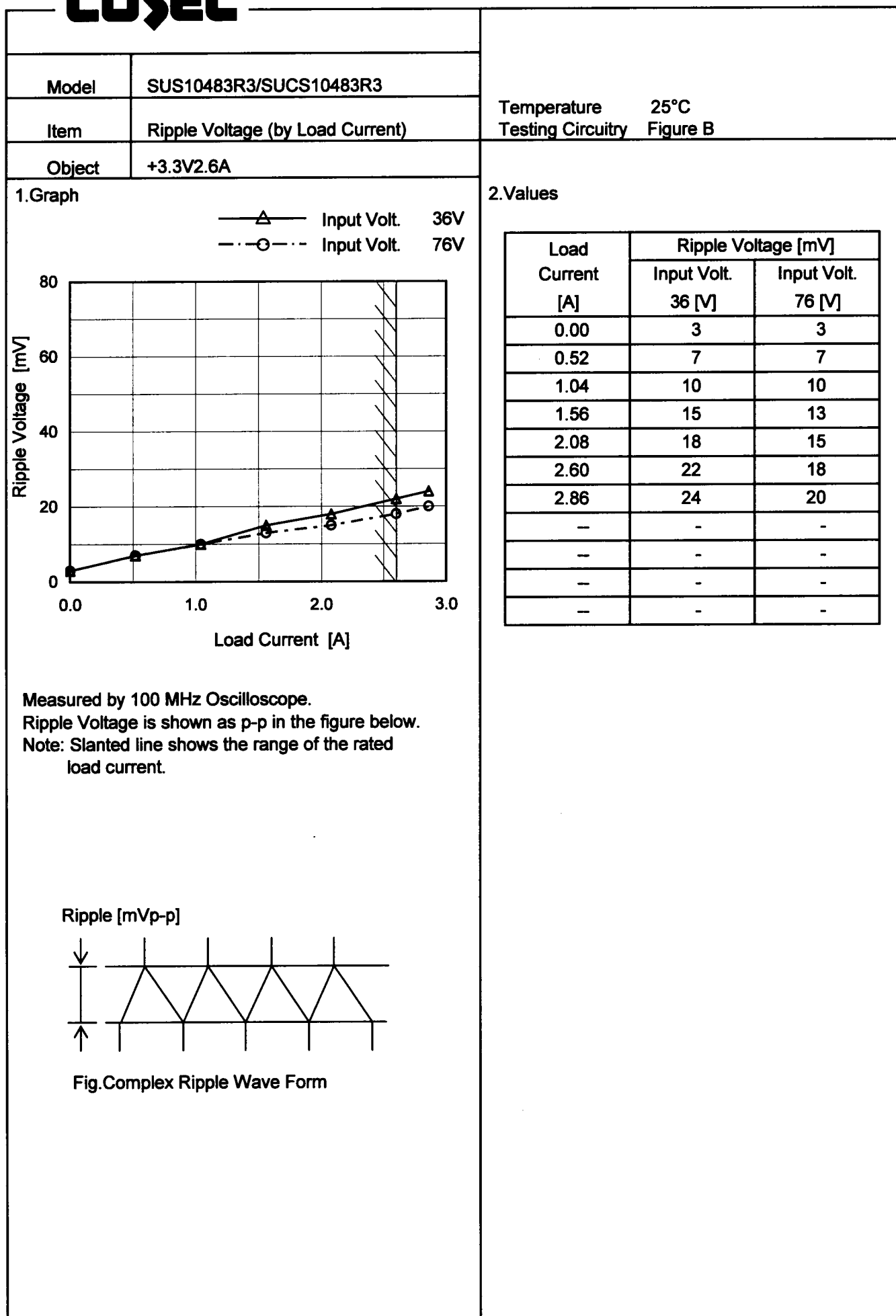


200µs/div



200µs/div

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Model		SUS10483R3/SUCS10483R3		Temperature Testing Circuitry	25°C Figure B
Item		Ripple-Noise			
Object		+3.3V2.6A			
1.Graph				2.Values	
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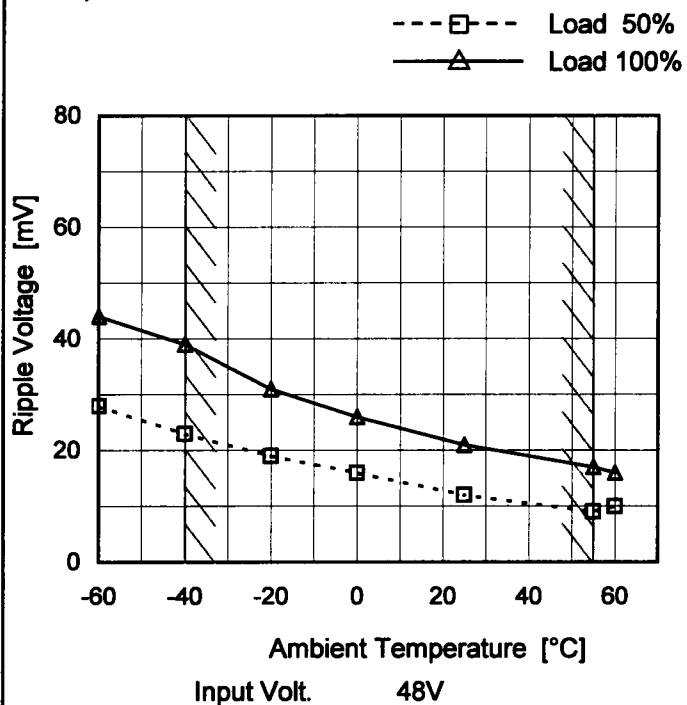
Model SUS10483R3/SUCS10483R3

Item Ripple Voltage (by Ambient Temp.)

Object +3.3V2.6A

Testing Circuitry Figure B

1. Graph



Measured by 100 MHz Oscilloscope.

Note: Slanted line shows the range of the rated ambient temperature.

2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Load 50%	Load 100%
-60	28	44
-40	23	39
-20	19	31
0	16	26
25	12	21
55	9	17
60	10	16
—	—	—
—	—	—
—	—	—
—	—	—

Model

SUS10483R3/SUCS10483R3

Item

Ambient Temperature Drift

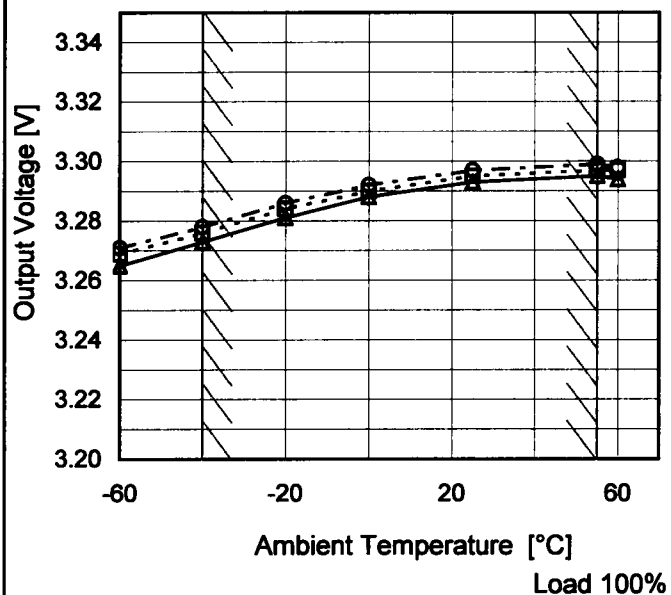
Object

+3.3V2.6A

Testing Circuitry Figure A

1. Graph

—△— Input Volt. 36V
 ---□--- Input Volt. 48V
 - - -○- - - Input Volt. 76V



Note: Slanted line shows the range of the rated ambient temperature.

2. Values

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]
-60	3.265	3.269	3.271
-40	3.273	3.276	3.278
-20	3.281	3.284	3.286
0	3.288	3.290	3.292
25	3.293	3.295	3.297
55	3.295	3.297	3.299
60	3.294	3.297	3.298
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—



		Testing Circuitry Figure A
Model	SUS10483R3/SUCS10483R3	
Item	Output Voltage Accuracy	
Object	+3.3V2.6A	

1. Output Voltage Accuracy

This is defined as the value of the output voltage, regulation load, ambient temperature and input voltage varied at random in the range as specified below.

Temperature : -40 - 55°C

Input Voltage : 36 - 76V

Load Current : 0 - 2.6A

* Output Voltage Accuracy = $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

* Output Voltage Accuracy (Ration) = $\frac{\text{Output Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$

2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	55	76	0	3.312	±20	±0.6
Minimum Voltage	-40	36	2.6	3.273		

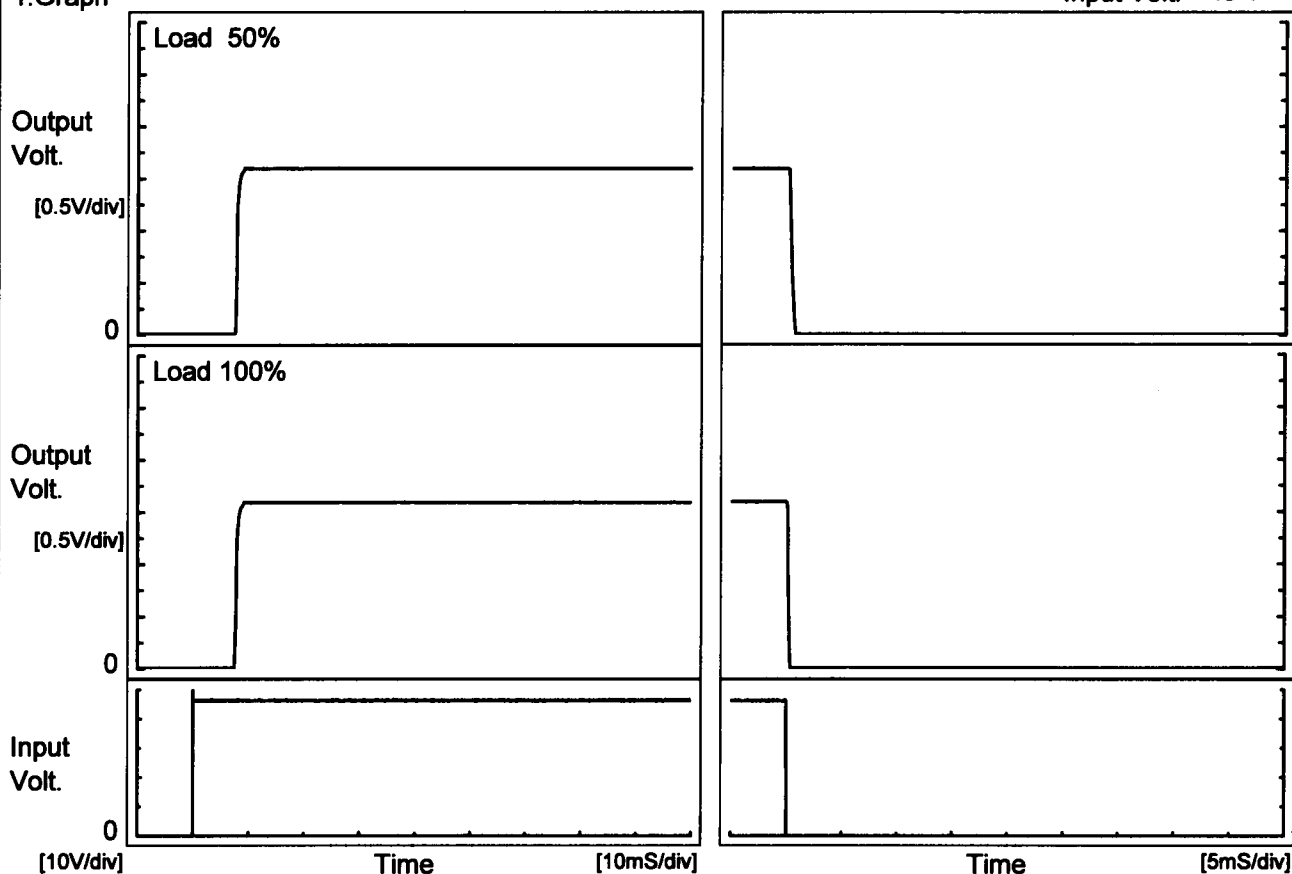
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Model	SUS10483R3/SUCS10483R3	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+3.3V2.6A		

1. Graph

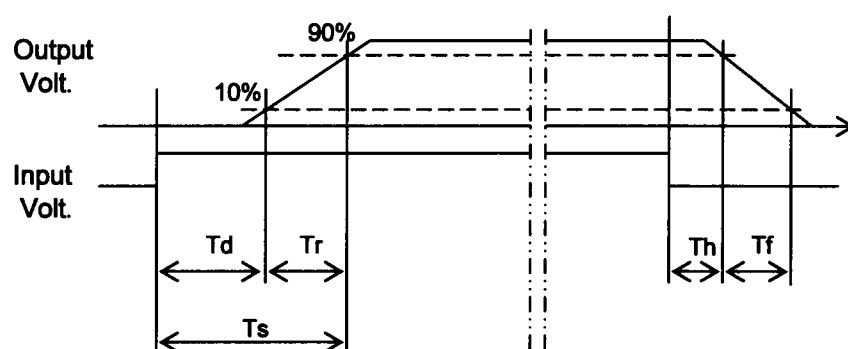
Input Volt. 48 V



2. Values

[mS]

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	7.6	0.9	8.5	0.2	0.4
100 %	7.5	0.9	8.4	0.1	0.2



Model	SUS10483R3/SUCS10483R3	Testing Circuitry Figure A																																					
Item	Minimum Input Voltage for Regulated Output Voltage																																						
Object	+3.3V2.6A																																						
1.Graph		2.Values																																					
<div><div>---□---</div><div>Load 50%</div></div> <div><div>—△—</div><div>Load 100%</div></div> <table><thead><tr><th>Ambient Temperature [°C]</th><th>Load 50%</th><th>Load 100%</th></tr></thead><tbody><tr><td>-60</td><td>26.6</td><td>26.8</td></tr><tr><td>-40</td><td>26.9</td><td>26.8</td></tr><tr><td>-20</td><td>27.0</td><td>27.0</td></tr><tr><td>0</td><td>27.3</td><td>27.2</td></tr><tr><td>25</td><td>27.4</td><td>27.4</td></tr><tr><td>55</td><td>27.6</td><td>27.8</td></tr><tr><td>60</td><td>27.8</td><td>27.8</td></tr><tr><td>—</td><td>-</td><td>-</td></tr><tr><td>—</td><td>-</td><td>-</td></tr><tr><td>—</td><td>-</td><td>-</td></tr><tr><td>—</td><td>-</td><td>-</td></tr></tbody></table>		Ambient Temperature [°C]	Load 50%	Load 100%	-60	26.6	26.8	-40	26.9	26.8	-20	27.0	27.0	0	27.3	27.2	25	27.4	27.4	55	27.6	27.8	60	27.8	27.8	—	-	-	—	-	-	—	-	-	—	-	-		
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Note: Slanted line shows the range of the rated ambient temperature.																																							

Model	SUS10483R3/SUCS10483R3																																																									
Item	Overcurrent Protection	Temperature	25°C																																																							
Object	+3.3V2.6A	Testing Circuitry	Figure A																																																							
1.Graph		2.Values																																																								
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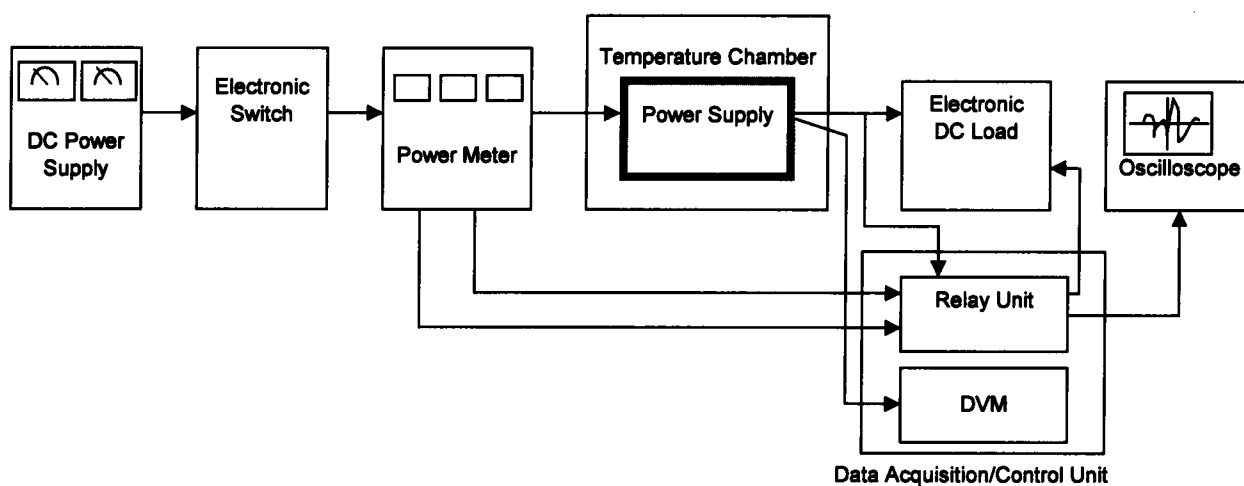


Figure A

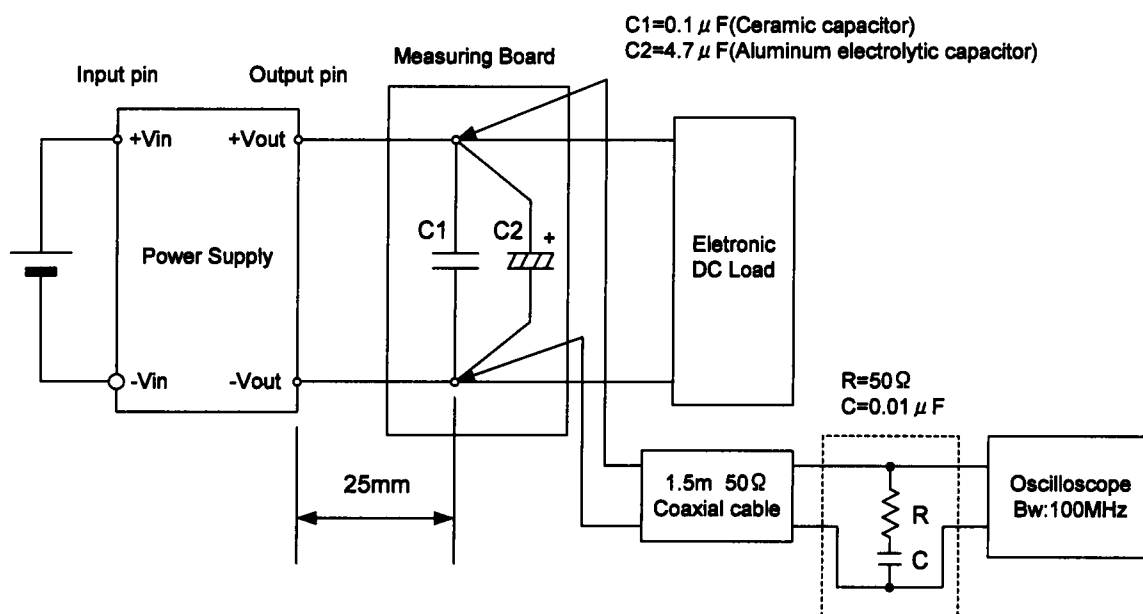


Figure B (Ripple and Ripple noise Characteristic)