

TEST DATA OF SUTS10483R3

Regulated DC Power Supply
February 16, 2009

Approved by : Kazunari Asano
Kazunari Asano Design Manager

Prepared by : Sho Saito
Sho Saito Design Engineer

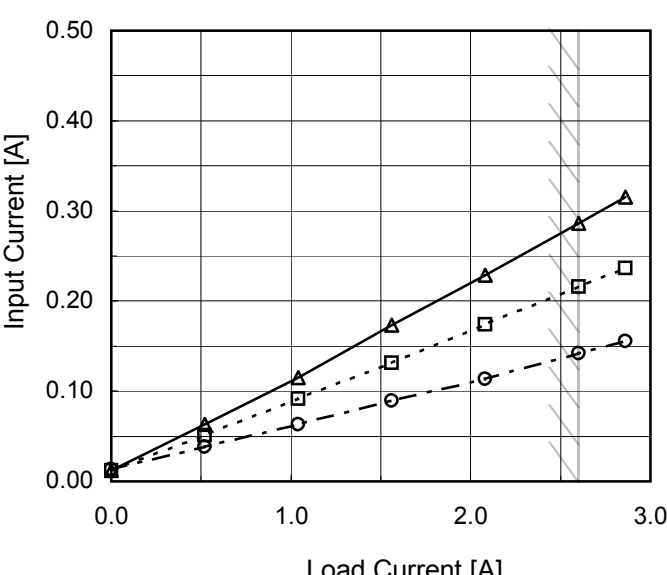
COSEL CO.,LTD.

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Item		Input Current (by Input Voltage)	
Object			
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		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Input Current [A]</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>0.012</td><td>0.012</td><td>0.014</td></tr><tr><td>0.52</td><td>0.064</td><td>0.051</td><td>0.039</td></tr><tr><td>1.04</td><td>0.115</td><td>0.092</td><td>0.064</td></tr><tr><td>1.56</td><td>0.173</td><td>0.131</td><td>0.089</td></tr><tr><td>2.08</td><td>0.229</td><td>0.174</td><td>0.113</td></tr><tr><td>2.60</td><td>0.286</td><td>0.216</td><td>0.142</td></tr><tr><td>2.86</td><td>0.316</td><td>0.237</td><td>0.155</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]	Input Current [A]			Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]	0.00	0.012	0.012	0.014	0.52	0.064	0.051	0.039	1.04	0.115	0.092	0.064	1.56	0.173	0.131	0.089	2.08	0.229	0.174	0.113	2.60	0.286	0.216	0.142	2.86	0.316	0.237	0.155	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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Model	SUTS10483R3																																
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Input Voltage [V]	Load 50% Efficiency [%]	Load 100% Efficiency [%]																															
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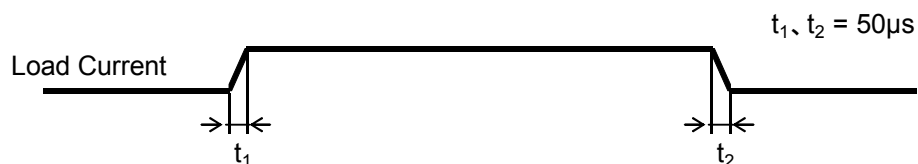
Model	SUTS10483R3	Temperature25°C Testing CircuitryFigure A																															
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Input Voltage [V]	Output Voltage [V] Load 50%	Output Voltage [V] Load 100%																															
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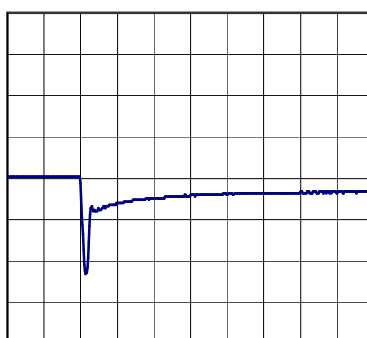
Model	SUTS10483R3	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Response	
Object	+3.3V2.6A	

Input Volt. 48 V
Cycle 100 mS

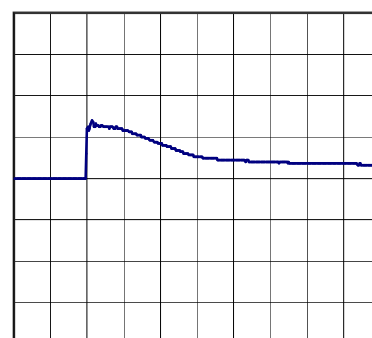


Min. Load (0A) \longleftrightarrow
Load 100% (2.6A)

200mV/div



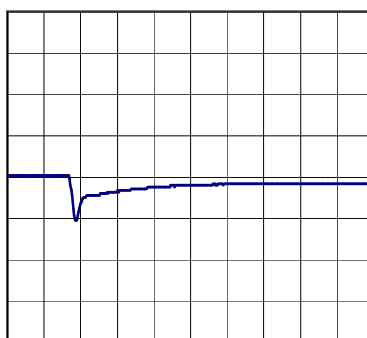
200µs/div



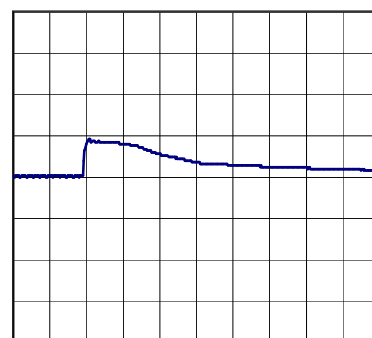
200µs/div

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

200mV/div



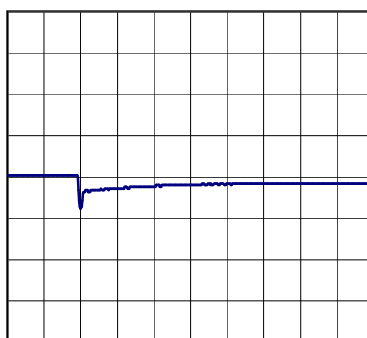
200µs/div



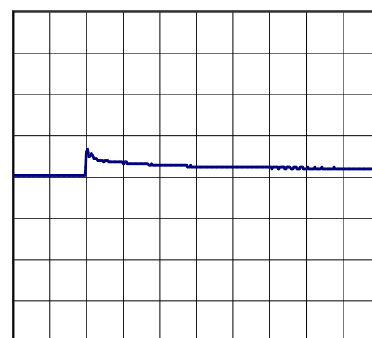
200µs/div

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

200mV/div



200µs/div



200µs/div


Model	SUTS10483R3																																								
Item	Ripple Voltage (by Load Current)	Temperature	25°C																																						
		Testing Circuitry	Figure B																																						
Object	+3.3V2.6A																																								
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Model	SUTS10483R3																																								
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Model	SUTS10483R3																																																					
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Model	SUTS10483R3	
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

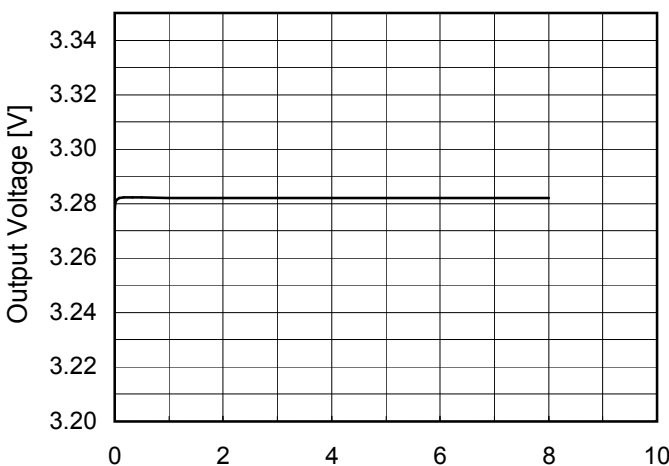
* Output Voltage Accuracy = $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

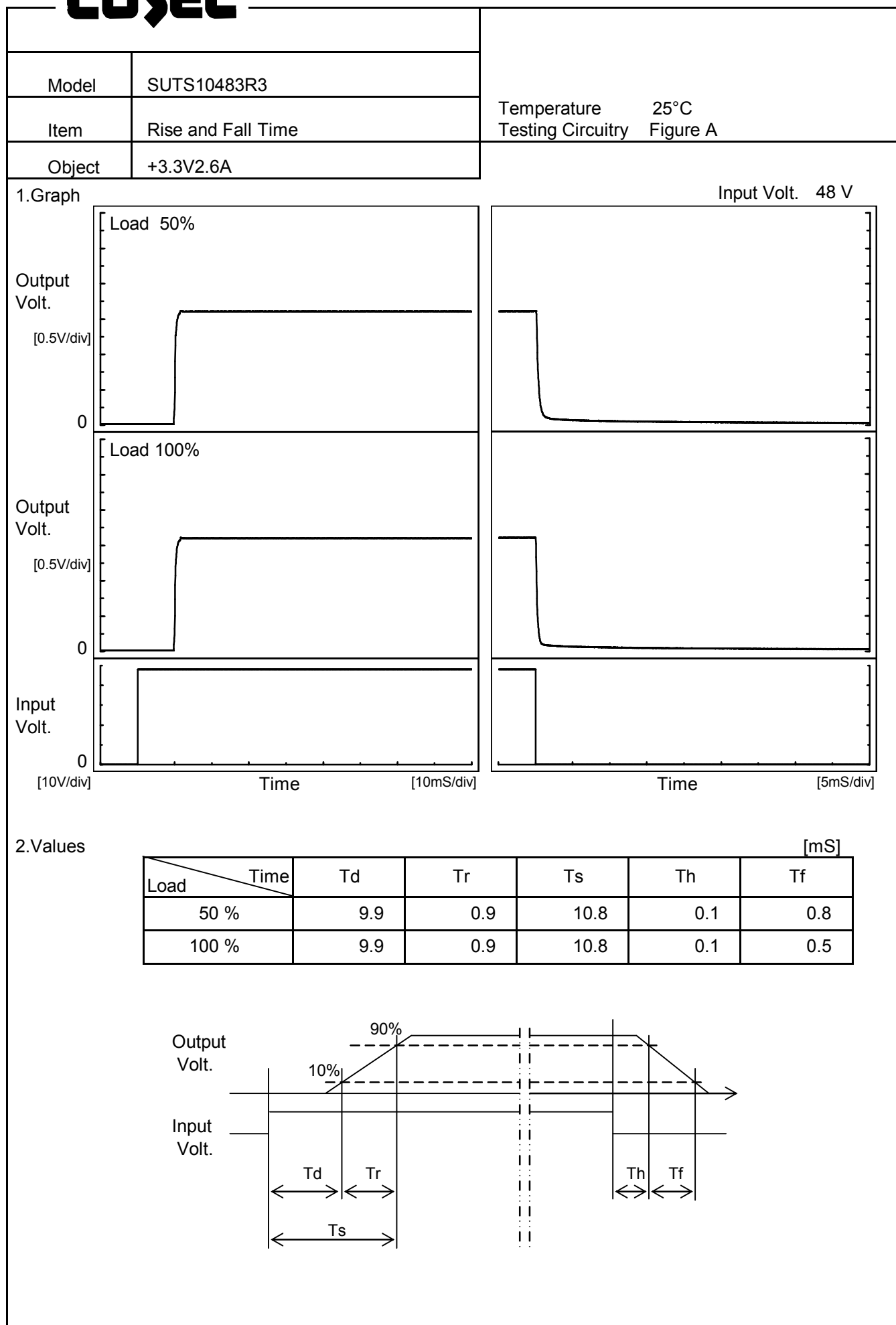
* Output Voltage Accuracy (Ratio) = $\frac{\text{Output Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$

2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ratio [%]
Maximum Voltage	55	76	0	3.310	±25	±0.8
Minimum Voltage	-40	36	2.6	3.260		



Model	SUTS10483R3																								
Item	Time Lapse Drift	Temperature	25°C																						
		Testing Circuitry	Figure A																						
Object	+3.3V2.6A																								
1.Graph		2.Values																							
<div><p>Output Voltage [V]</p><p>Time [H]</p><p>Input Volt. 48V</p><p>Load 100%</p></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>3.277</td></tr><tr><td>0.5</td><td>3.282</td></tr><tr><td>1.0</td><td>3.282</td></tr><tr><td>2.0</td><td>3.282</td></tr><tr><td>3.0</td><td>3.282</td></tr><tr><td>4.0</td><td>3.282</td></tr><tr><td>5.0</td><td>3.282</td></tr><tr><td>6.0</td><td>3.282</td></tr><tr><td>7.0</td><td>3.282</td></tr><tr><td>8.0</td><td>3.282</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	3.277	0.5	3.282	1.0	3.282	2.0	3.282	3.0	3.282	4.0	3.282	5.0	3.282	6.0	3.282	7.0	3.282	8.0	3.282
Time since start [H]	Output Voltage [V]																								
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Model	SUTS10483R3																																								
Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A																																							
Object	+3.3V2.6A																																								
1.Graph		2.Values																																							
<div><div>---□--- Load 50%</div><div>—△— Load 100%</div></div> <p>Note: Slanted line shows the range of the rated ambient temperature.</p>		<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="2">Input Voltage [V]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>-60</td><td>27.7</td><td>27.6</td></tr><tr><td>-40</td><td>27.7</td><td>27.8</td></tr><tr><td>-20</td><td>27.9</td><td>27.9</td></tr><tr><td>0</td><td>28.1</td><td>28.0</td></tr><tr><td>25</td><td>28.3</td><td>28.4</td></tr><tr><td>55</td><td>28.7</td><td>28.7</td></tr><tr><td>60</td><td>28.7</td><td>28.6</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></table>		Ambient Temperature [°C]	Input Voltage [V]		Load 50%	Load 100%	-60	27.7	27.6	-40	27.7	27.8	-20	27.9	27.9	0	28.1	28.0	25	28.3	28.4	55	28.7	28.7	60	28.7	28.6	--	-	-	--	-	-	--	-	-	--	-	-
Ambient Temperature [°C]	Input Voltage [V]																																								
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Model	SUTS10483R3																																																									
Item	Overcurrent Protection	Temperature	25°C																																																							
Object	+3.3V2.6A	Testing Circuitry	Figure A																																																							
1.Graph		2.Values																																																								
<div><div><div></div><div></div><div></div></div><div><div>Input Volt. 36V</div><div>Input Volt. 48V</div><div>Input Volt. 76V</div></div><p>Note: Slanted line shows the range of the rated load current.</p></div>		<table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="3">Load Current [A]</th></tr><tr><th>Input Volt. 36[V]</th><th>Input Volt. 48[V]</th><th>Input Volt. 76[V]</th></tr><tr><td>3.30</td><td>2.60</td><td>2.60</td><td>2.60</td></tr><tr><td>3.14</td><td>3.63</td><td>3.88</td><td>3.98</td></tr><tr><td>2.97</td><td>3.75</td><td>4.04</td><td>4.15</td></tr><tr><td>2.64</td><td>3.97</td><td>4.27</td><td>4.31</td></tr><tr><td>2.31</td><td>4.04</td><td>4.31</td><td>4.23</td></tr><tr><td>1.98</td><td>4.07</td><td>4.30</td><td>4.15</td></tr><tr><td>1.65</td><td>4.09</td><td>4.33</td><td>4.12</td></tr><tr><td>1.32</td><td>4.16</td><td>4.37</td><td>3.98</td></tr><tr><td>0.99</td><td>4.32</td><td>4.49</td><td>0.00</td></tr><tr><td>0.66</td><td>4.59</td><td>4.49</td><td>0.00</td></tr><tr><td>0.33</td><td>4.63</td><td>4.24</td><td>0.00</td></tr><tr><td>0.00</td><td>3.87</td><td>3.81</td><td>3.34</td></tr></table>		Output Voltage [V]	Load Current [A]			Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]	3.30	2.60	2.60	2.60	3.14	3.63	3.88	3.98	2.97	3.75	4.04	4.15	2.64	3.97	4.27	4.31	2.31	4.04	4.31	4.23	1.98	4.07	4.30	4.15	1.65	4.09	4.33	4.12	1.32	4.16	4.37	3.98	0.99	4.32	4.49	0.00	0.66	4.59	4.49	0.00	0.33	4.63	4.24	0.00	0.00	3.87	3.81	3.34
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Figure A

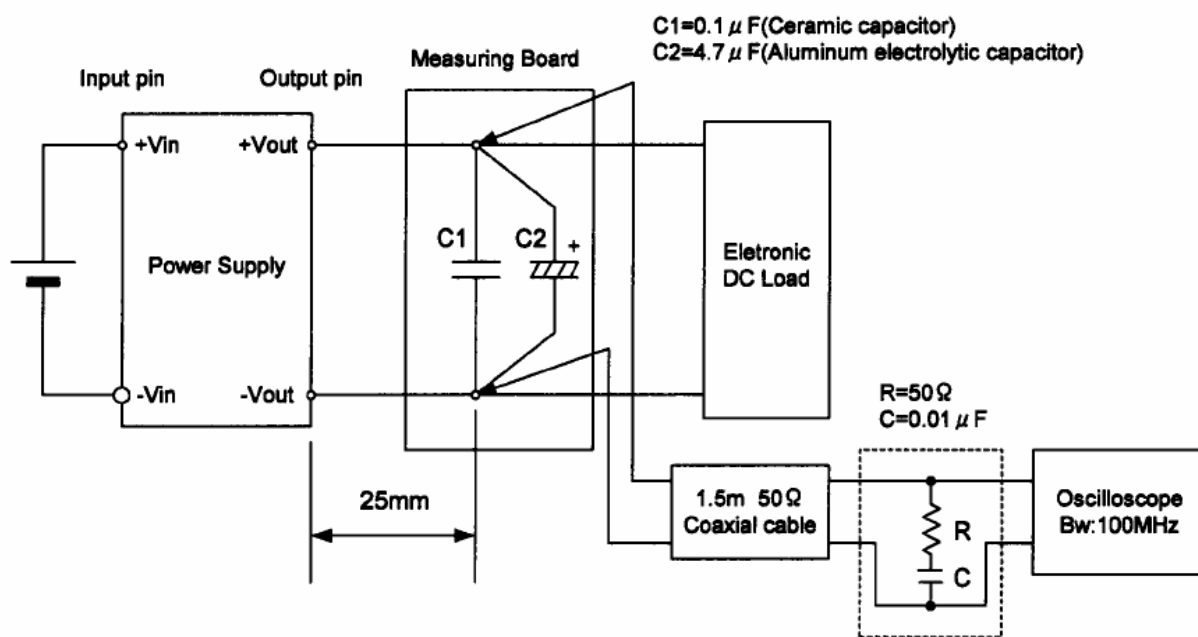


Figure B (Ripple and Ripple noise Characteristic)