

TEST DATA OF SUTS61205

Regulated DC Power Supply
March 11, 2009

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COSEL CO.,LTD.

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<div><div>—△— Input Volt. 9V</div><div>---□--- Input Volt. 12V</div><div>-·-○-·- Input Volt. 18V</div></div> <p>Efficiency [%]</p> <p>Load Current [A]</p>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Efficiency [%]</th></tr><tr><th>Input Volt. 9[V]</th><th>Input Volt. 12[V]</th><th>Input Volt. 18[V]</th></tr><tr><td>0.00</td><td>-</td><td>-</td><td>-</td></tr><tr><td>0.24</td><td>67.9</td><td>65.0</td><td>54.9</td></tr><tr><td>0.48</td><td>76.0</td><td>74.4</td><td>68.0</td></tr><tr><td>0.72</td><td>78.2</td><td>77.9</td><td>73.4</td></tr><tr><td>0.96</td><td>79.0</td><td>79.2</td><td>76.2</td></tr><tr><td>1.20</td><td>79.1</td><td>79.8</td><td>77.8</td></tr><tr><td>1.32</td><td>78.8</td><td>79.9</td><td>78.3</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. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]	0.00	-	-	-	0.24	67.9	65.0	54.9	0.48	76.0	74.4	68.0	0.72	78.2	77.9	73.4	0.96	79.0	79.2	76.2	1.20	79.1	79.8	77.8	1.32	78.8	79.9	78.3	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Efficiency [%]																																																					
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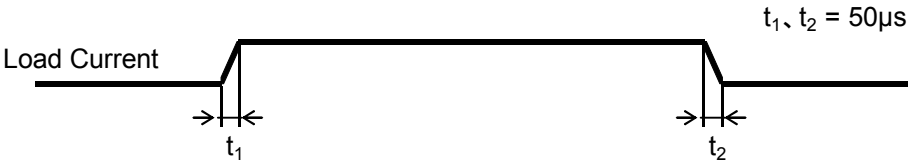
Model	SUTS61205																																		
Item	Line Regulation	Temperature	25°C																																
		Testing Circuitry	Figure A																																
Object	+5V1.2A																																		
1.Graph		2.Values																																	
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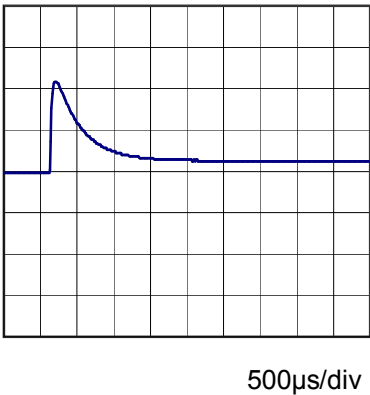
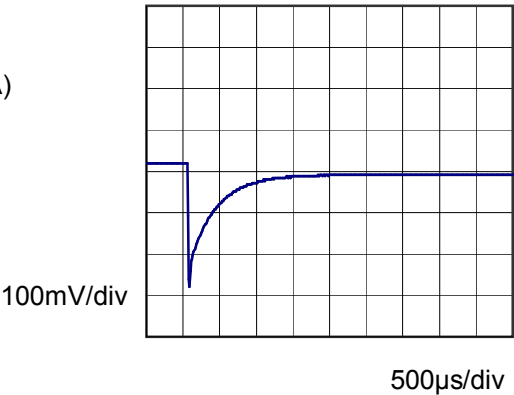


Model		SUTS61205	Temperature 25°C Testing Circuitry Figure A
Item		Dynamic Load Response	
Object		+5V1.2A	

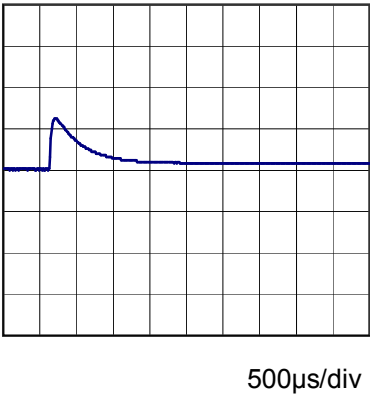
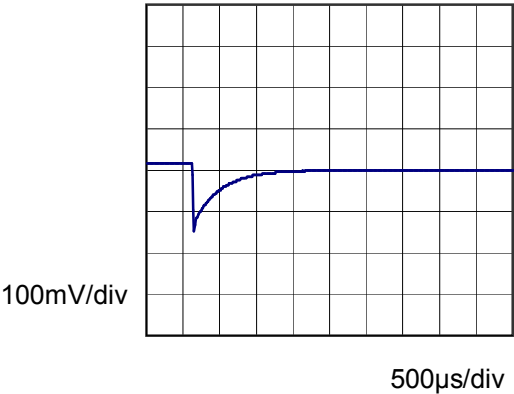
Input Volt. 12 V
Cycle 100 mS



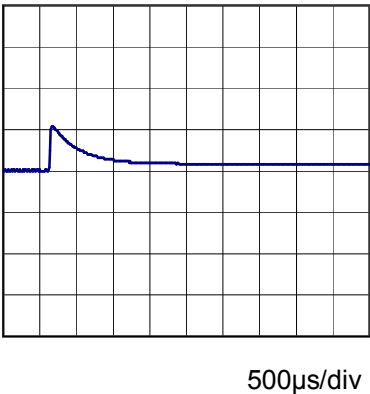
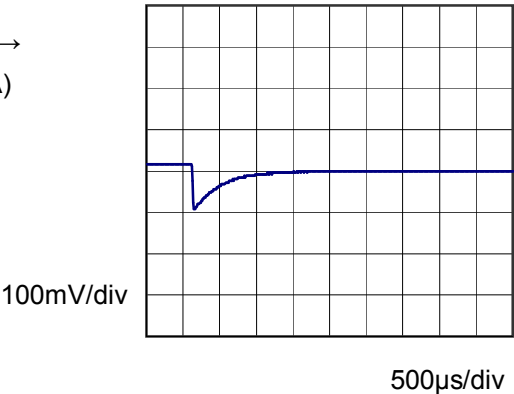
Min. Load (0A) \longleftrightarrow
Load 100% (1.2A)



Min. Load (0A) \longleftrightarrow
Load 50% (0.6A)



Load 50% (0.6A) \longleftrightarrow
Load 100% (1.2A)




Model	SUTS61205																																								
Item	Ripple Voltage (by Load Current)	Temperature	25°C																																						
		Testing Circuitry	Figure B																																						
Object	+5V1.2A																																								
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<div><div><div><div><div></div><div>—△—</div><div>Input Volt.</div><div>9V</div></div><div><div></div><div>-·-○-·-</div><div>Input Volt.</div><div>18V</div></div></div><div><p>Ripple Voltage [mV]</p><p>Load Current [A]</p></div></div><div><p>Ripple Voltage is shown as p-p in the figure below.</p><p>Note: Slanted line shows the range of the rated load current.</p></div><div><div><p>Ripple [mVp-p]</p></div><p>Fig.Complex Ripple Wave Form</p></div></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Input Volt. 9 [V]</th><th>Input Volt. 18 [V]</th></tr><tr><td>0.00</td><td>5</td><td>5</td></tr><tr><td>0.24</td><td>5</td><td>5</td></tr><tr><td>0.48</td><td>8</td><td>5</td></tr><tr><td>0.72</td><td>11</td><td>8</td></tr><tr><td>0.96</td><td>16</td><td>8</td></tr><tr><td>1.20</td><td>24</td><td>10</td></tr><tr><td>1.32</td><td>28</td><td>12</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>		Load Current [A]	Ripple Voltage [mV]		Input Volt. 9 [V]	Input Volt. 18 [V]	0.00	5	5	0.24	5	5	0.48	8	5	0.72	11	8	0.96	16	8	1.20	24	10	1.32	28	12	--	-	-	--	-	-	--	-	-	--	-	-
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Model	SUTS61205																																																																												
Item	Ripple-Noise	Temperature	25°C																																																																										
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Model	SUTS61205																																								
Item	Ripple Voltage (by Ambient Temp.)	Testing Circuitry Figure B																																							
Object	+5V1.2A																																								
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Note: Slanted line shows the range of the rated ambient temperature.																																																						



		
Model	SUTS61205	
Item	Output Voltage Accuracy	
Object	+5V1.2A	

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 : 9 - 18V

Load Current : 0 - 1.2A

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

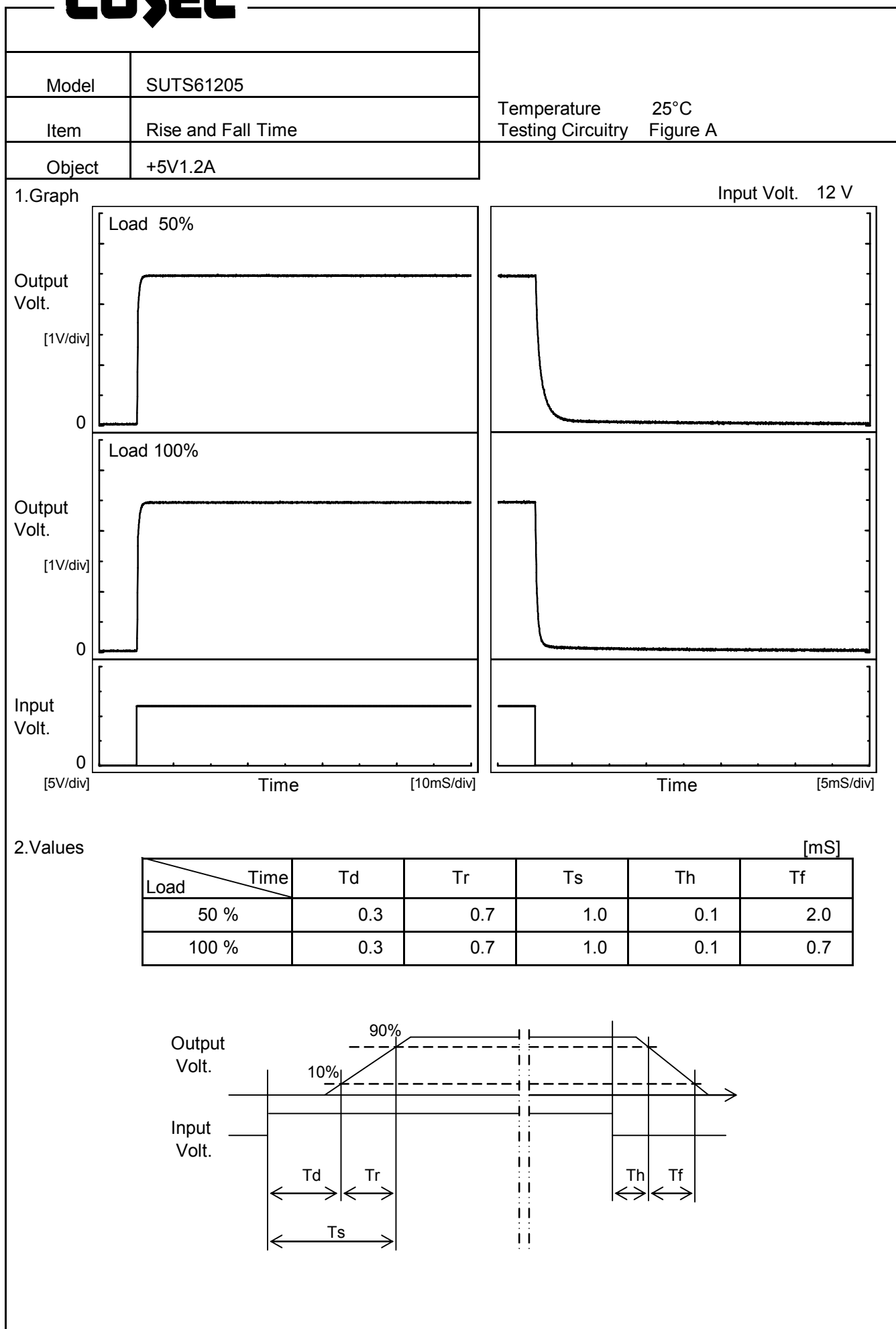
* Output Voltage Accuracy (Ratio) = $\frac{\text{Output Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$

2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ratio [%]
Maximum Voltage	55	18	0	5.088	±23	±0.5
Minimum Voltage	-40	9	1.2	5.043		



Model	SUTS61205																								
Item	Time Lapse Drift	Temperature	25°C																						
		Testing Circuitry	Figure A																						
Object	+5V1.2A																								
1.Graph		2.Values																							
<div><div><div>5.14</div><div>5.12</div><div>5.10</div><div>5.08</div><div>5.06</div><div>5.04</div><div>5.02</div><div>5.00</div></div><div><div>0</div><div>2</div><div>4</div><div>6</div><div>8</div><div>10</div></div><div><div>Output Voltage [V]</div><div>Time [H]</div></div><div><div>Input Volt.</div><div>12V</div></div><div><div>Load</div><div>100%</div></div></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>5.069</td></tr><tr><td>0.5</td><td>5.074</td></tr><tr><td>1.0</td><td>5.074</td></tr><tr><td>2.0</td><td>5.074</td></tr><tr><td>3.0</td><td>5.074</td></tr><tr><td>4.0</td><td>5.074</td></tr><tr><td>5.0</td><td>5.074</td></tr><tr><td>6.0</td><td>5.074</td></tr><tr><td>7.0</td><td>5.074</td></tr><tr><td>8.0</td><td>5.074</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	5.069	0.5	5.074	1.0	5.074	2.0	5.074	3.0	5.074	4.0	5.074	5.0	5.074	6.0	5.074	7.0	5.074	8.0	5.074
Time since start [H]	Output Voltage [V]																								
0.0	5.069																								
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8.0	5.074																								



Model	SUTS61205																																								
Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A																																							
Object	+5V1.2A																																								
1.Graph		2.Values																																							
<div><div>---□--- Load 50%</div><div>—△— Load 100%</div></div> <p>Input Voltage [V]</p> <p>Ambient Temperature [°C]</p> <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>8.0</td><td>8.1</td></tr><tr><td>-40</td><td>8.1</td><td>8.1</td></tr><tr><td>-20</td><td>7.9</td><td>7.9</td></tr><tr><td>0</td><td>7.7</td><td>7.7</td></tr><tr><td>25</td><td>7.5</td><td>7.6</td></tr><tr><td>55</td><td>7.4</td><td>7.4</td></tr><tr><td>60</td><td>7.4</td><td>7.3</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	8.0	8.1	-40	8.1	8.1	-20	7.9	7.9	0	7.7	7.7	25	7.5	7.6	55	7.4	7.4	60	7.4	7.3	--	-	-	--	-	-	--	-	-	--	-	-
Ambient Temperature [°C]	Input Voltage [V]																																								
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Model	SUTS61205																																																									
Item	Overcurrent Protection	Temperature	25°C																																																							
Object	+5V1.2A	Testing Circuitry	Figure A																																																							
1.Graph		2.Values																																																								
<div><div><div></div><div></div><div></div></div><div><div>Input Volt. 9V</div><div>Input Volt. 12V</div><div>Input Volt. 18V</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. 9[V]</th><th>Input Volt. 12[V]</th><th>Input Volt. 18[V]</th></tr><tr><td>5.00</td><td>1.20</td><td>1.20</td><td>1.20</td></tr><tr><td>4.75</td><td>1.63</td><td>1.72</td><td>1.69</td></tr><tr><td>4.50</td><td>1.66</td><td>1.74</td><td>1.70</td></tr><tr><td>4.00</td><td>1.72</td><td>1.79</td><td>1.73</td></tr><tr><td>3.50</td><td>1.78</td><td>1.82</td><td>1.75</td></tr><tr><td>3.00</td><td>1.90</td><td>1.97</td><td>1.90</td></tr><tr><td>2.50</td><td>2.01</td><td>2.05</td><td>1.96</td></tr><tr><td>2.00</td><td>2.07</td><td>2.08</td><td>1.98</td></tr><tr><td>1.50</td><td>2.09</td><td>2.07</td><td>1.97</td></tr><tr><td>1.00</td><td>2.05</td><td>2.00</td><td>1.90</td></tr><tr><td>0.50</td><td>1.92</td><td>1.86</td><td>1.78</td></tr><tr><td>0.00</td><td>1.61</td><td>1.54</td><td>1.51</td></tr></table>		Output Voltage [V]	Load Current [A]			Input Volt. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]	5.00	1.20	1.20	1.20	4.75	1.63	1.72	1.69	4.50	1.66	1.74	1.70	4.00	1.72	1.79	1.73	3.50	1.78	1.82	1.75	3.00	1.90	1.97	1.90	2.50	2.01	2.05	1.96	2.00	2.07	2.08	1.98	1.50	2.09	2.07	1.97	1.00	2.05	2.00	1.90	0.50	1.92	1.86	1.78	0.00	1.61	1.54	1.51
Output Voltage [V]	Load Current [A]																																																									
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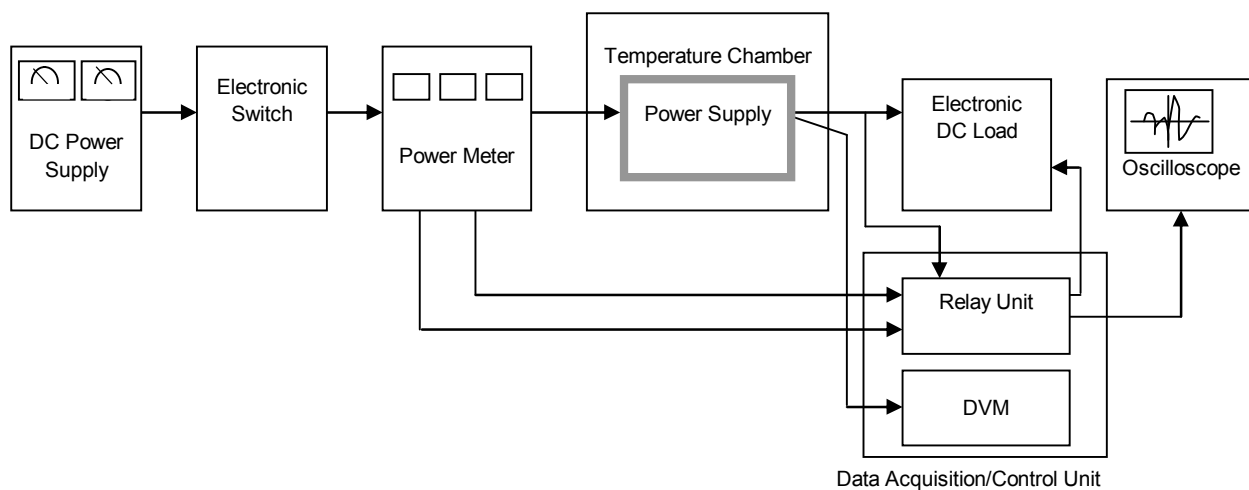


Figure A

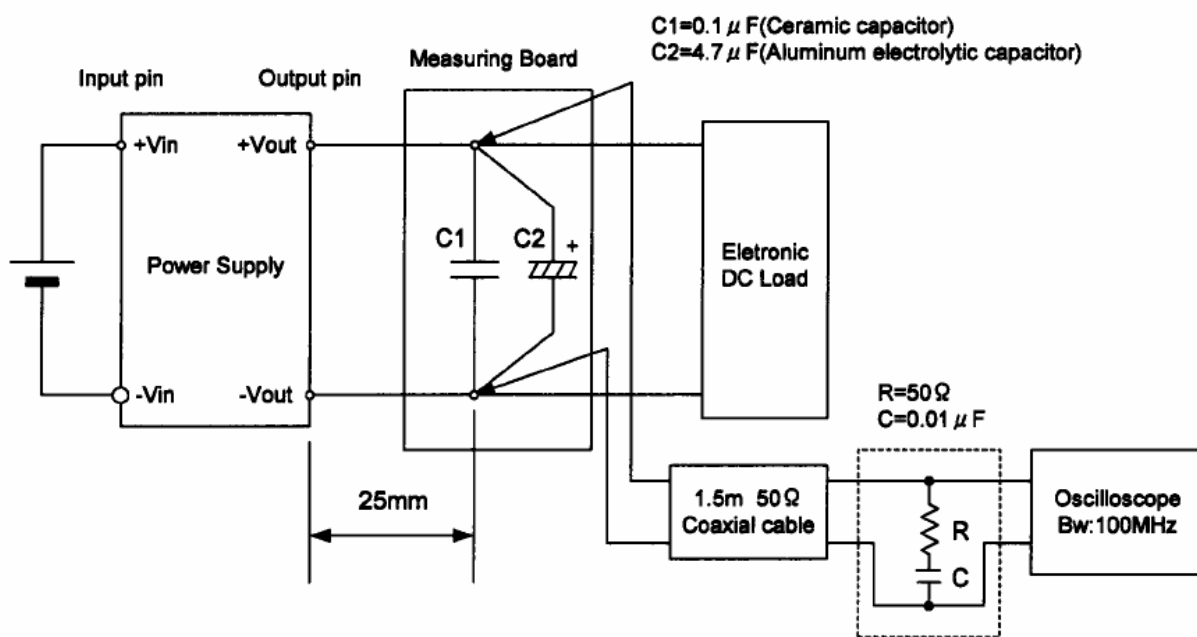


Figure B (Ripple and Ripple noise Characteristic)