

TEST DATA OF SUTS100505

Regulated DC Power Supply
January 29, 2009

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COSEL CO.,LTD.

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<div><div>—△— Input Volt. 4.5V</div><div>---□--- Input Volt. 5V</div><div>-·-○-·- Input Volt. 9V</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. 4.5[V]</th><th>Input Volt. 5[V]</th><th>Input Volt. 9[V]</th></tr><tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>0.4</td><td>76.9</td><td>75.8</td><td>70.8</td></tr><tr><td>0.8</td><td>81.5</td><td>81.2</td><td>79.3</td></tr><tr><td>1.2</td><td>83.6</td><td>83.6</td><td>81.1</td></tr><tr><td>1.6</td><td>83.8</td><td>84.2</td><td>82.5</td></tr><tr><td>2.0</td><td>82.9</td><td>83.7</td><td>83.7</td></tr><tr><td>2.2</td><td>82.3</td><td>83.3</td><td>84.1</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. 4.5[V]	Input Volt. 5[V]	Input Volt. 9[V]	0.0	-	-	-	0.4	76.9	75.8	70.8	0.8	81.5	81.2	79.3	1.2	83.6	83.6	81.1	1.6	83.8	84.2	82.5	2.0	82.9	83.7	83.7	2.2	82.3	83.3	84.1	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Efficiency [%]																																																					
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0.4	76.9	75.8	70.8																																																			
0.8	81.5	81.2	79.3																																																			
1.2	83.6	83.6	81.1																																																			
1.6	83.8	84.2	82.5																																																			
2.0	82.9	83.7	83.7																																																			
2.2	82.3	83.3	84.1																																																			
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Note: Slanted line shows the range of the rated load current.																																																						

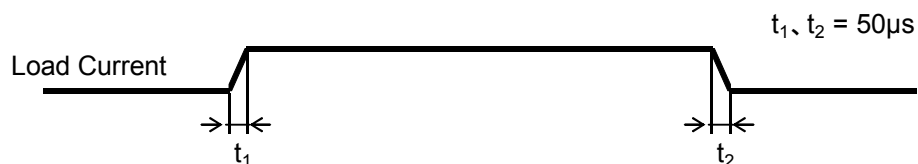
Model	SUTS100505																																		
Item	Line Regulation	Temperature	25°C																																
		Testing Circuitry	Figure A																																
Object	+5V2A																																		
1.Graph		2.Values																																	
<div><div>---□---Load 50%</div><div>—△—Load 100%</div></div> <p>Note: Slanted line shows the range of the rated input voltage.</p>		<table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Output Voltage [V]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>4.0</td><td>5.054</td><td>5.045</td></tr><tr><td>4.5</td><td>5.054</td><td>5.046</td></tr><tr><td>5.0</td><td>5.054</td><td>5.046</td></tr><tr><td>6.0</td><td>5.054</td><td>5.046</td></tr><tr><td>7.0</td><td>5.054</td><td>5.046</td></tr><tr><td>8.0</td><td>5.054</td><td>5.046</td></tr><tr><td>9.0</td><td>5.054</td><td>5.046</td></tr><tr><td>10.0</td><td>5.054</td><td>5.046</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	4.0	5.054	5.045	4.5	5.054	5.046	5.0	5.054	5.046	6.0	5.054	5.046	7.0	5.054	5.046	8.0	5.054	5.046	9.0	5.054	5.046	10.0	5.054	5.046	--	-	-
Input Voltage [V]	Output Voltage [V]																																		
	Load 50%	Load 100%																																	
4.0	5.054	5.045																																	
4.5	5.054	5.046																																	
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Model	SUTS100505																																																					
Item	Load Regulation	Temperature	25°C																																																			
Object	+5V2A	Testing Circuitry	Figure A																																																			
1.Graph		2.Values																																																				
<div><div>—△—</div>Input Volt. 4.5V</div> <div><div>---□---</div>Input Volt. 5V</div> <div><div>-·-○-·-</div>Input Volt. 9V</div> <p>Output Voltage [V]</p> <p>Load Current [A]</p>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 4.5[V]</th><th>Input Volt. 5[V]</th><th>Input Volt. 9[V]</th></tr><tr><td>0.0</td><td>5.063</td><td>5.063</td><td>5.063</td></tr><tr><td>0.4</td><td>5.059</td><td>5.059</td><td>5.059</td></tr><tr><td>0.8</td><td>5.056</td><td>5.056</td><td>5.055</td></tr><tr><td>1.2</td><td>5.052</td><td>5.052</td><td>5.052</td></tr><tr><td>1.6</td><td>5.049</td><td>5.049</td><td>5.049</td></tr><tr><td>2.0</td><td>5.046</td><td>5.046</td><td>5.046</td></tr><tr><td>2.2</td><td>5.043</td><td>5.044</td><td>5.044</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]	Output Voltage [V]			Input Volt. 4.5[V]	Input Volt. 5[V]	Input Volt. 9[V]	0.0	5.063	5.063	5.063	0.4	5.059	5.059	5.059	0.8	5.056	5.056	5.055	1.2	5.052	5.052	5.052	1.6	5.049	5.049	5.049	2.0	5.046	5.046	5.046	2.2	5.043	5.044	5.044	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Output Voltage [V]																																																					
	Input Volt. 4.5[V]	Input Volt. 5[V]	Input Volt. 9[V]																																																			
0.0	5.063	5.063	5.063																																																			
0.4	5.059	5.059	5.059																																																			
0.8	5.056	5.056	5.055																																																			
1.2	5.052	5.052	5.052																																																			
1.6	5.049	5.049	5.049																																																			
2.0	5.046	5.046	5.046																																																			
2.2	5.043	5.044	5.044																																																			
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Note: Slanted line shows the range of the rated load current.																																																						

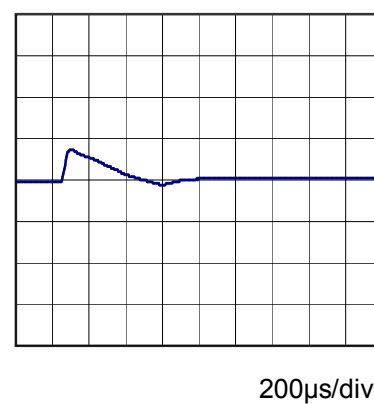
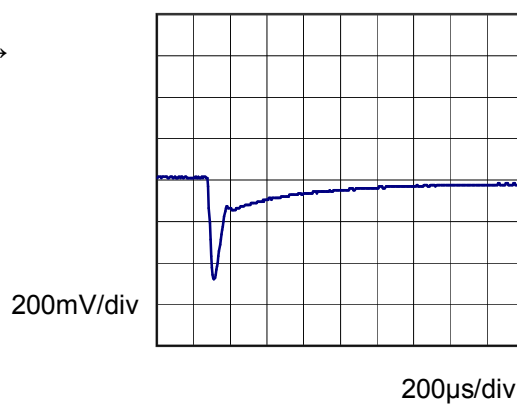


Model	SUTS100505	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Response	
Object	+5V2A	

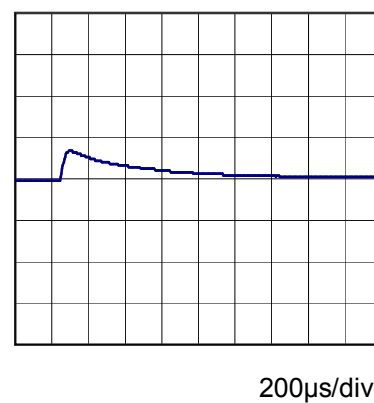
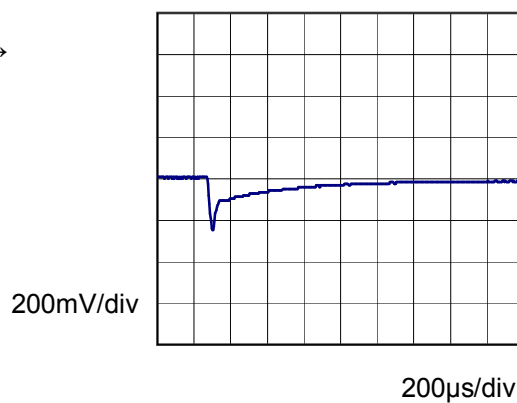
Input Volt. 5 V
Cycle 100 mS



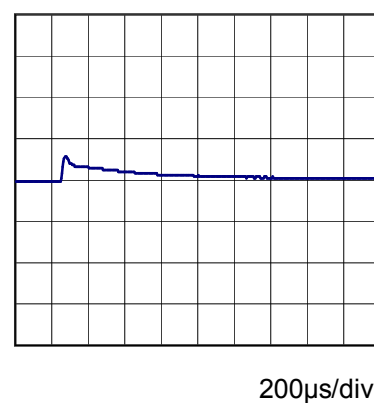
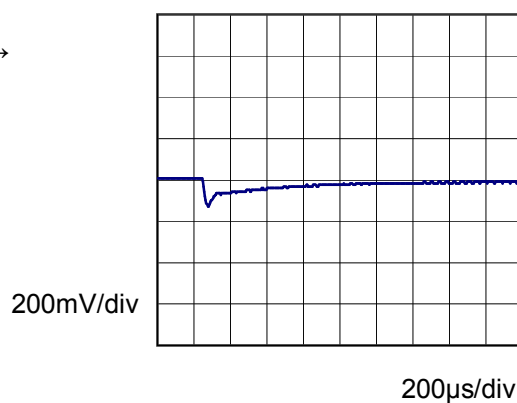
Min. Load (0A) \longleftrightarrow
Load 100% (2A)



Min. Load (0A) \longleftrightarrow
Load 50% (1A)



Load 50% (1A) \longleftrightarrow
Load 100% (2A)



Model	SUTS100505																																								
Item	Ripple Voltage (by Load Current)	Temperature	25°C																																						
		Testing Circuitry	Figure B																																						
Object	+5V2A																																								
1.Graph		2.Values																																							
<div><div><div>—△—</div><div>Input Volt.</div><div>4.5V</div></div><div><div>-·-○-·-</div><div>Input Volt.</div><div>9V</div></div></div> <p>Ripple Voltage is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current.</p>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Input Volt. 4.5 [V]</th><th>Input Volt. 9 [V]</th></tr><tr><td>0.0</td><td>2</td><td>2</td></tr><tr><td>0.4</td><td>9</td><td>8</td></tr><tr><td>0.8</td><td>14</td><td>12</td></tr><tr><td>1.2</td><td>17</td><td>15</td></tr><tr><td>1.6</td><td>23</td><td>19</td></tr><tr><td>2.0</td><td>28</td><td>23</td></tr><tr><td>2.2</td><td>32</td><td>24</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. 4.5 [V]	Input Volt. 9 [V]	0.0	2	2	0.4	9	8	0.8	14	12	1.2	17	15	1.6	23	19	2.0	28	23	2.2	32	24	--	-	-	--	-	-	--	-	-	--	-	-
Load Current [A]	Ripple Voltage [mV]																																								
	Input Volt. 4.5 [V]	Input Volt. 9 [V]																																							
0.0	2	2																																							
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1.2	17	15																																							
1.6	23	19																																							
2.0	28	23																																							
2.2	32	24																																							
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--	-	-																																							
<p>Ripple [mVp-p]</p> <p>Fig.Complex Ripple Wave Form</p>																																									

Model	SUTS100505																																								
Item	Ripple-Noise	Temperature	25°C																																						
Object	+5V2A	Testing Circuitry	Figure B																																						
1.Graph		2.Values																																							
<div><div><div>—△— Input Volt. 4.5V</div><div>-·-○-·- Input Volt. 9V</div></div><p>Measured by 100 MHz Oscilloscope. Ripple-Noise is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current.</p></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple-Noise [mV]</th></tr><tr><th>Input Volt. 4.5 [V]</th><th>Input Volt. 9 [V]</th></tr><tr><td>0.0</td><td>3</td><td>9</td></tr><tr><td>0.4</td><td>11</td><td>11</td></tr><tr><td>0.8</td><td>18</td><td>17</td></tr><tr><td>1.2</td><td>25</td><td>21</td></tr><tr><td>1.6</td><td>33</td><td>24</td></tr><tr><td>2.0</td><td>39</td><td>27</td></tr><tr><td>2.2</td><td>44</td><td>30</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-Noise [mV]		Input Volt. 4.5 [V]	Input Volt. 9 [V]	0.0	3	9	0.4	11	11	0.8	18	17	1.2	25	21	1.6	33	24	2.0	39	27	2.2	44	30	--	-	-	--	-	-	--	-	-	--	-	-
Load Current [A]	Ripple-Noise [mV]																																								
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<div><div><div><div></div><div></div></div><div>Ripple Noise[mVp-p]</div></div><p>Fig.Complex Ripple Noise Wave Form</p></div>																																									

Model	SUTS100505																																								
Item	Ripple Voltage (by Ambient Temp.)	Testing Circuitry Figure B																																							
Object	+5V2A																																								
1.Graph		2.Values																																							
<div><div>---□--- Load 50%</div><div>—△— Load 100%</div></div> <p>Ripple Voltage [mV]</p> <p>Ambient Temperature [°C]</p> <p>Input Volt. 5V</p>		<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>-60</td><td>22</td><td>37</td></tr><tr><td>-40</td><td>22</td><td>37</td></tr><tr><td>-20</td><td>22</td><td>37</td></tr><tr><td>0</td><td>20</td><td>35</td></tr><tr><td>25</td><td>17</td><td>32</td></tr><tr><td>55</td><td>17</td><td>31</td></tr><tr><td>60</td><td>17</td><td>31</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]	Ripple Voltage [mV]		Load 50%	Load 100%	-60	22	37	-40	22	37	-20	22	37	0	20	35	25	17	32	55	17	31	60	17	31	--	-	-	--	-	-	--	-	-	--	-	-
Ambient Temperature [°C]	Ripple Voltage [mV]																																								
	Load 50%	Load 100%																																							
-60	22	37																																							
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25	17	32																																							
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Measured by 100 MHz Oscilloscope. Note: Slanted line shows the range of the rated ambient temperature.																																									

Model	SUTS100505																																																					
Item	Ambient Temperature Drift	Testing Circuitry Figure A																																																				
Object	+5V2A																																																					
1.Graph		2.Values																																																				
<div><div><div>—△—</div><div>Input Volt.</div><div>4.5V</div></div><div><div>---□---</div><div>Input Volt.</div><div>5V</div></div><div><div>-·-○-·-</div><div>Input Volt.</div><div>9V</div></div></div> <p>Output Voltage [V]</p> <p>Ambient Temperature [°C]</p> <p>Load 100%</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="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 4.5[V]</th><th>Input Volt. 5[V]</th><th>Input Volt. 9[V]</th></tr><tr><td>-60</td><td>5.017</td><td>5.019</td><td>5.018</td></tr><tr><td>-40</td><td>5.027</td><td>5.028</td><td>5.028</td></tr><tr><td>-20</td><td>5.035</td><td>5.036</td><td>5.036</td></tr><tr><td>0</td><td>5.041</td><td>5.041</td><td>5.041</td></tr><tr><td>25</td><td>5.045</td><td>5.045</td><td>5.045</td></tr><tr><td>55</td><td>5.046</td><td>5.046</td><td>5.046</td></tr><tr><td>60</td><td>5.046</td><td>5.046</td><td>5.046</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>		Ambient Temperature [°C]	Output Voltage [V]			Input Volt. 4.5[V]	Input Volt. 5[V]	Input Volt. 9[V]	-60	5.017	5.019	5.018	-40	5.027	5.028	5.028	-20	5.035	5.036	5.036	0	5.041	5.041	5.041	25	5.045	5.045	5.045	55	5.046	5.046	5.046	60	5.046	5.046	5.046	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
Ambient Temperature [°C]	Output Voltage [V]																																																					
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Model		SUTS100505	Testing Circuitry Figure A
Item		Output Voltage Accuracy	
Object		+5V2A	

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 : 4.5 - 9V

Load Current : 0 - 2A

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

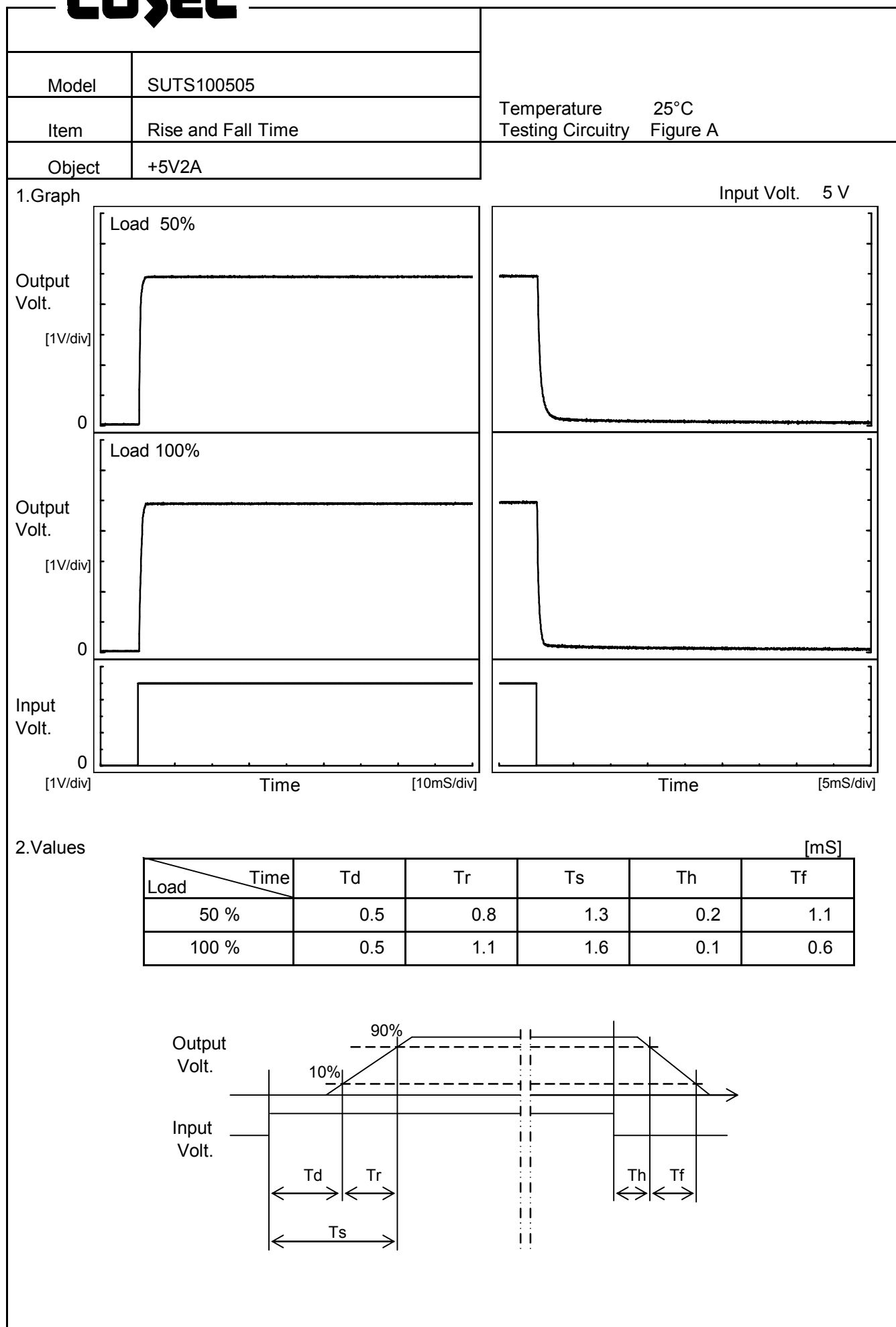
* Output Voltage Accuracy (Ration) = $\frac{\text{Output Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$

2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	55	9	0	5.064	±19	±0.4
Minimum Voltage	-40	4.5	2	5.027		



Model	SUTS100505																								
Item	Time Lapse Drift	Temperature	25°C																						
		Testing Circuitry	Figure A																						
Object	+5V2A																								
1.Graph		2.Values																							
<div><p>Output Voltage [V]</p><p>Time [H]</p><p>Input Volt. 5V</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>5.042</td></tr><tr><td>0.5</td><td>5.046</td></tr><tr><td>1.0</td><td>5.046</td></tr><tr><td>2.0</td><td>5.046</td></tr><tr><td>3.0</td><td>5.046</td></tr><tr><td>4.0</td><td>5.046</td></tr><tr><td>5.0</td><td>5.046</td></tr><tr><td>6.0</td><td>5.046</td></tr><tr><td>7.0</td><td>5.046</td></tr><tr><td>8.0</td><td>5.046</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	5.042	0.5	5.046	1.0	5.046	2.0	5.046	3.0	5.046	4.0	5.046	5.0	5.046	6.0	5.046	7.0	5.046	8.0	5.046
Time since start [H]	Output Voltage [V]																								
0.0	5.042																								
0.5	5.046																								
1.0	5.046																								
2.0	5.046																								
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7.0	5.046																								
8.0	5.046																								



		Testing Circuitry Figure A																																				
Model	SUTS100505																																					
Item	Minimum Input Voltage for Regulated Output Voltage																																					
Object	+5V2A																																					
1.Graph		2.Values																																				
<div><div><div>---□---</div><div>Load 50%</div></div><div><div>—△—</div><div>Load 100%</div></div></div> <table><thead><tr><th>Ambient Temperature [°C]</th><th>Load 50% [V]</th><th>Load 100% [V]</th></tr></thead><tbody><tr><td>-60</td><td>2.4</td><td>2.9</td></tr><tr><td>-40</td><td>2.3</td><td>3.0</td></tr><tr><td>-20</td><td>2.4</td><td>3.1</td></tr><tr><td>0</td><td>2.5</td><td>3.2</td></tr><tr><td>25</td><td>2.7</td><td>3.3</td></tr><tr><td>55</td><td>2.8</td><td>3.5</td></tr><tr><td>60</td><td>2.8</td><td>3.5</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% [V]	Load 100% [V]	-60	2.4	2.9	-40	2.3	3.0	-20	2.4	3.1	0	2.5	3.2	25	2.7	3.3	55	2.8	3.5	60	2.8	3.5	--	-	-	--	-	-	--	-	-	--	-	-	
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Model	SUTS100505																																																									
Item	Overcurrent Protection	Temperature	25°C																																																							
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<div><div><div></div>Input Volt. 4.5V</div><div><div></div>Input Volt. 5V</div><div><div></div>Input Volt. 9V</div></div> <p>Note: Slanted line shows the range of the rated load current.</p>		<table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="3">Load Current [A]</th></tr><tr><th>Input Volt. 4.5[V]</th><th>Input Volt. 5[V]</th><th>Input Volt. 9[V]</th></tr><tr><td>5.00</td><td>2.01</td><td>2.01</td><td>2.01</td></tr><tr><td>4.75</td><td>2.62</td><td>2.66</td><td>2.78</td></tr><tr><td>4.50</td><td>2.65</td><td>2.69</td><td>2.79</td></tr><tr><td>4.00</td><td>2.64</td><td>2.68</td><td>2.73</td></tr><tr><td>3.50</td><td>2.65</td><td>2.68</td><td>2.67</td></tr><tr><td>3.00</td><td>2.66</td><td>2.69</td><td>2.62</td></tr><tr><td>2.50</td><td>2.69</td><td>2.72</td><td>2.58</td></tr><tr><td>2.00</td><td>2.72</td><td>2.76</td><td>2.56</td></tr><tr><td>1.50</td><td>2.78</td><td>2.82</td><td>2.57</td></tr><tr><td>1.00</td><td>2.92</td><td>2.95</td><td>2.57</td></tr><tr><td>0.50</td><td>3.04</td><td>3.14</td><td>2.60</td></tr><tr><td>0.00</td><td>3.54</td><td>3.71</td><td>3.63</td></tr></table>		Output Voltage [V]	Load Current [A]			Input Volt. 4.5[V]	Input Volt. 5[V]	Input Volt. 9[V]	5.00	2.01	2.01	2.01	4.75	2.62	2.66	2.78	4.50	2.65	2.69	2.79	4.00	2.64	2.68	2.73	3.50	2.65	2.68	2.67	3.00	2.66	2.69	2.62	2.50	2.69	2.72	2.58	2.00	2.72	2.76	2.56	1.50	2.78	2.82	2.57	1.00	2.92	2.95	2.57	0.50	3.04	3.14	2.60	0.00	3.54	3.71	3.63
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Figure A

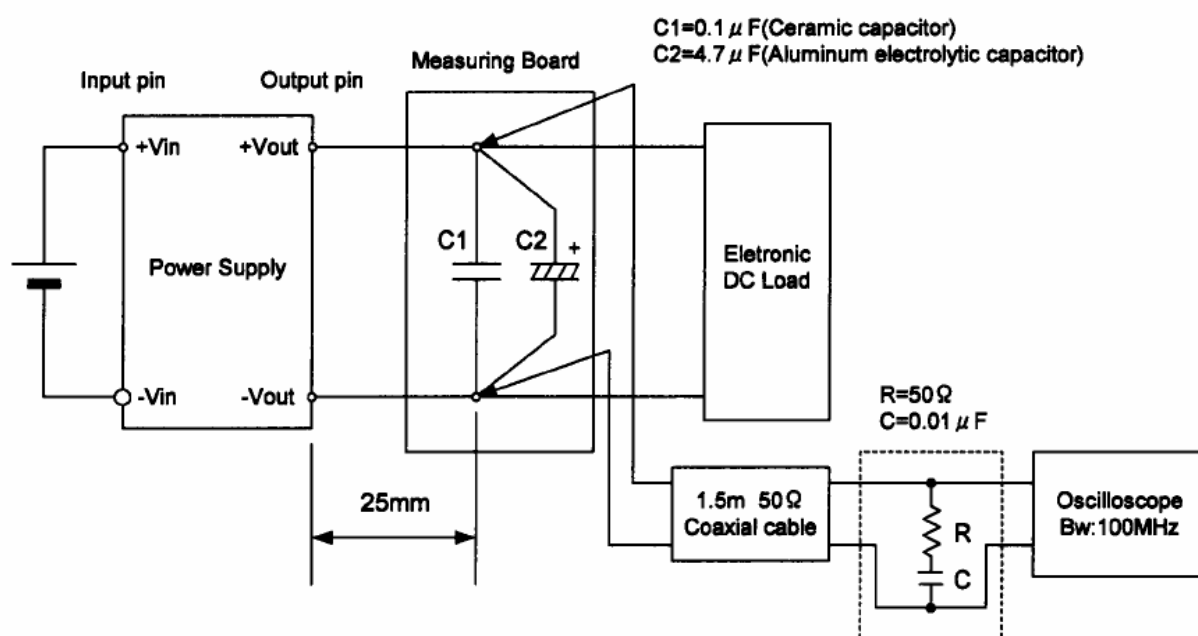


Figure B (Ripple and Ripple noise Characteristic)