



TEST DATA OF SUCS31205

Regulated DC Power Supply
Mar 10, 2005

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COSEL CO.,LTD.

CONTENTS

1.Input Current (by Input Voltage)	1
2.Input Current (by Load Current)	2
3.Input Power (by Load Current)	3
4.Efficiency (by Input Voltage)	4
5.Efficiency (by Load Current)	5
6.Line Regulation	6
7.Load Regulation	7
8.Dynamic Load Response	8
9.Ripple Voltage (by Load Current)	9
10.Ripple-Noise	10
11.Ripple Voltage (by Ambient Temperature)	11
12.Ambient Temperature Drift	12
13.Output Voltage Accuracy	13
14.Time Lapse Drift	14
15.Rise and Fall Time	15
16.Minimum Input Voltage for Regulated Output Voltage	16
17.Overcurrent Protection	17
18.Figure of Testing Circuitry	18

(Final Page 18)

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Model

SUCS31205

Item

Input Current (by Input Voltage)

Object

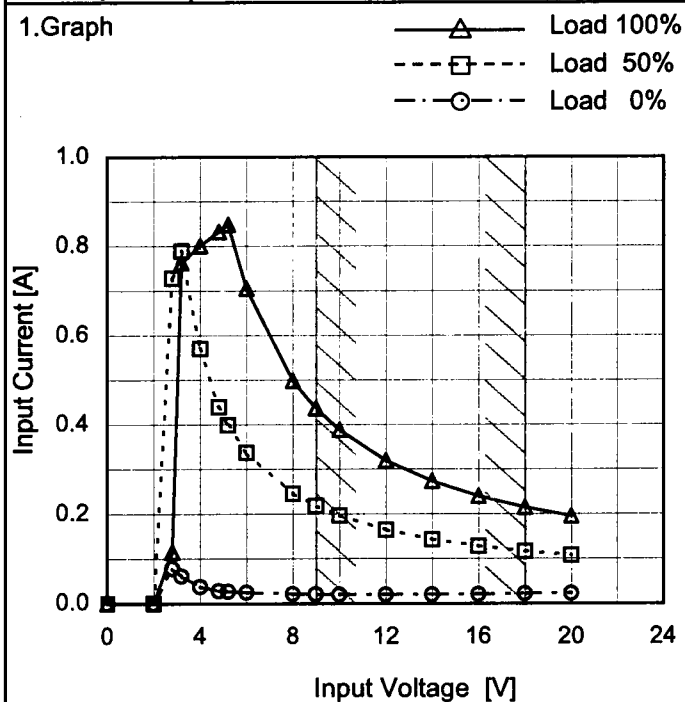
Temperature

25°C

Testing Circuitry

Figure A

1.Graph



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

2.Values

Input Voltage [V]	Input Current [A]		
	Load 0%	Load 50%	Load 100%
0.0	0.000	0.000	0.000
2.0	0.000	0.000	0.000
2.8	0.078	0.729	0.115
3.2	0.061	0.790	0.763
4.0	0.037	0.571	0.801
4.8	0.028	0.441	0.833
5.2	0.027	0.399	0.848
6.0	0.024	0.337	0.705
8.0	0.021	0.246	0.499
9.0	0.020	0.219	0.437
10.0	0.020	0.197	0.389
12.0	0.019	0.165	0.320
14.0	0.020	0.143	0.274
16.0	0.020	0.128	0.240
18.0	0.021	0.116	0.215
20.0	0.022	0.108	0.195
--	-	-	-
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Model

SUCS31205

Item

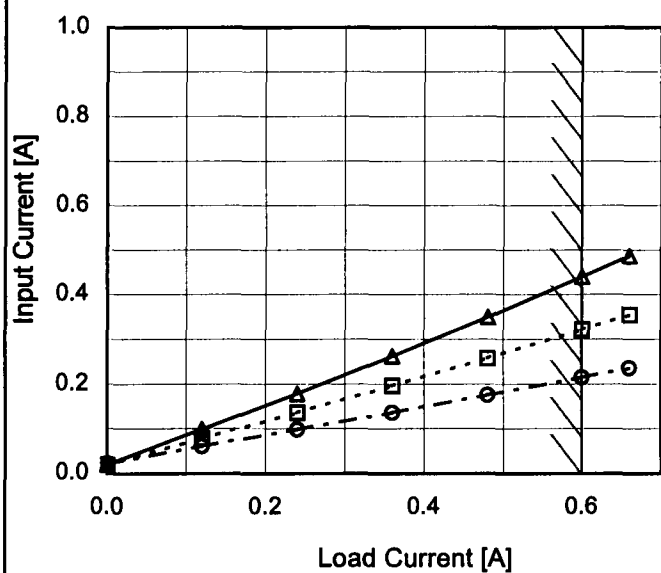
Input Current (by Load Current)

Object

 Temperature 25°C
 Testing Circuitry Figure A

1. Graph

—△— Input Volt. 9V
 ---□--- Input Volt. 12V
 -·-○-·- Input Volt. 18V



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

2. Values

Load Current [A]	Input Current [A]		
	Input Volt. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]
0.00	0.020	0.019	0.021
0.12	0.098	0.077	0.060
0.24	0.179	0.136	0.097
0.36	0.262	0.196	0.136
0.48	0.350	0.258	0.175
0.60	0.440	0.322	0.215
0.66	0.487	0.355	0.236
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--	-	-	-
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Model

SUCS31205

Item

Input Power (by Load Current)

Object

Temperature

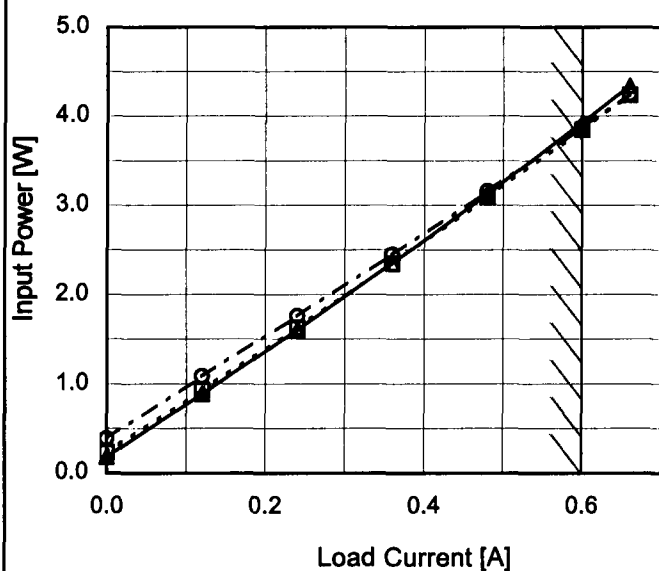
25°C

Testing Circuitry

Figure A

1. Graph

—△— Input Volt. 9V
 ---□--- Input Volt. 12V
 -·-○-·- Input Volt. 18V



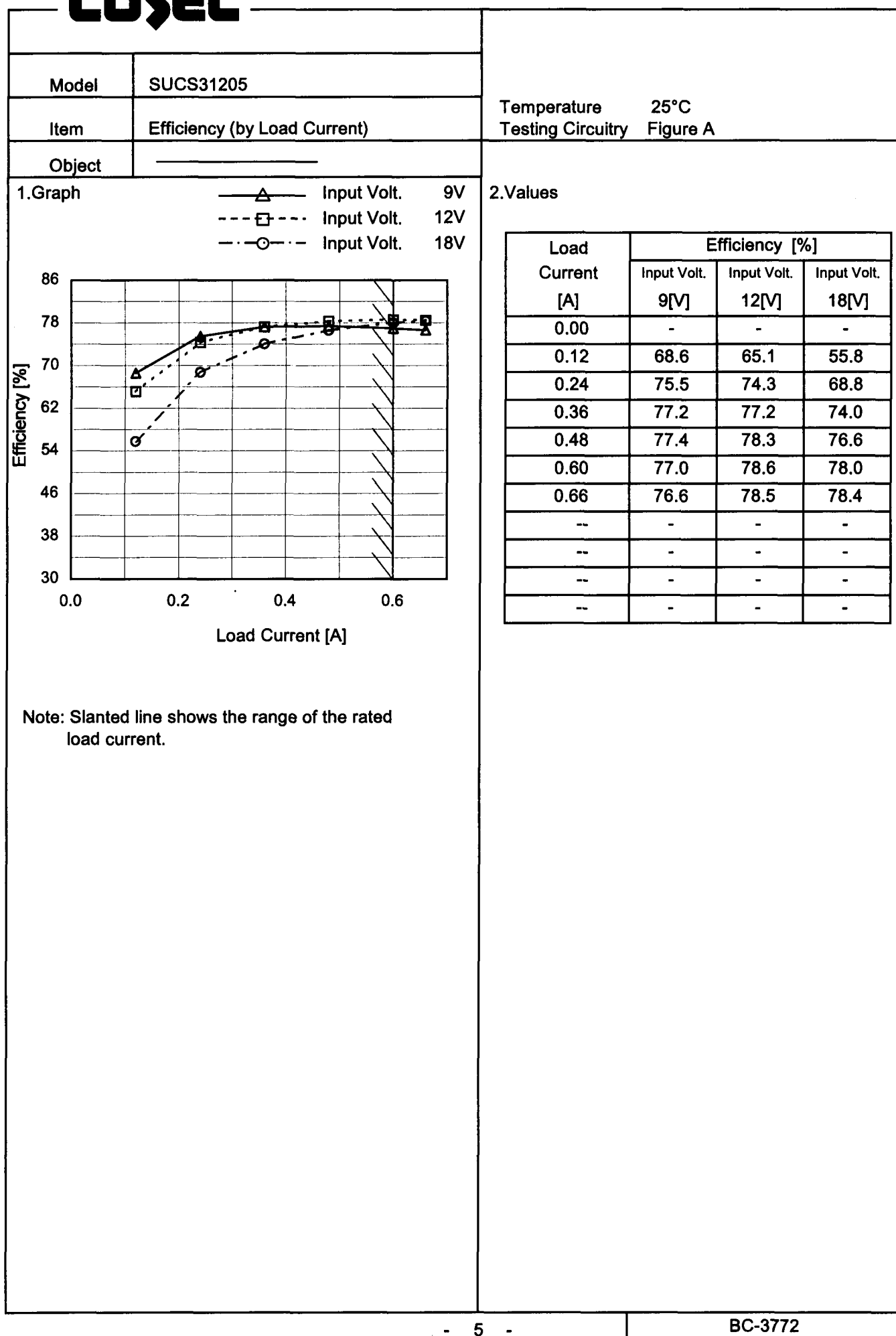
2. Values

Load Current [A]	Input Power [W]		
	Input Volt. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]
0.00	0.18	0.23	0.38
0.12	0.88	0.93	1.08
0.24	1.60	1.63	1.76
0.36	2.35	2.35	2.45
0.48	3.13	3.09	3.16
0.60	3.93	3.85	3.88
0.66	4.34	4.24	4.25
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--	-	-	-
--	-	-	-
--	-	-	-

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Model	SUCS31205																																
Item	Efficiency (by Input Voltage)	Temperature	25°C																														
Object		Testing Circuitry	Figure A																														
1.Graph		2.Values																															
<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> <table><thead><tr><th>Input Voltage [V]</th><th>Load 50% Efficiency [%]</th><th>Load 100% Efficiency [%]</th></tr></thead><tbody><tr><td>8</td><td>76.8</td><td>76.0</td></tr><tr><td>9</td><td>76.9</td><td>77.0</td></tr><tr><td>10</td><td>76.8</td><td>77.8</td></tr><tr><td>12</td><td>76.2</td><td>78.6</td></tr><tr><td>15</td><td>74.4</td><td>78.8</td></tr><tr><td>18</td><td>71.9</td><td>78.0</td></tr><tr><td>20</td><td>69.9</td><td>77.3</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table>		Input Voltage [V]	Load 50% Efficiency [%]	Load 100% Efficiency [%]	8	76.8	76.0	9	76.9	77.0	10	76.8	77.8	12	76.2	78.6	15	74.4	78.8	18	71.9	78.0	20	69.9	77.3	--	-	-	--	-	-		
Input Voltage [V]	Load 50% Efficiency [%]	Load 100% Efficiency [%]																															
8	76.8	76.0																															
9	76.9	77.0																															
10	76.8	77.8																															
12	76.2	78.6																															
15	74.4	78.8																															
18	71.9	78.0																															
20	69.9	77.3																															
--	-	-																															
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Note: Slanted line shows the range of the rated input voltage.																																	

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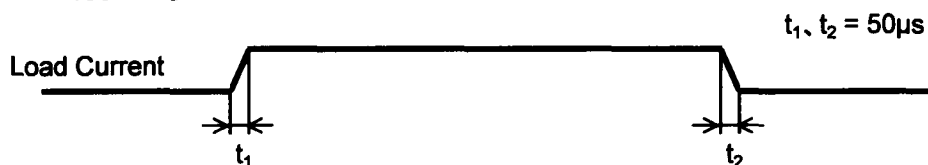
Model	SUCS31205																																
Item	Line Regulation	Temperature	25°C																														
Object	+5V0.6A	Testing Circuitry	Figure A																														
1.Graph		2.Values																															
<div><div><div>---□---</div><div>Load 50%</div></div><div><div>—△—</div><div>Load 100%</div></div></div> <table><thead><tr><th>Input Voltage [V]</th><th>Output Voltage [V] Load 50%</th><th>Output Voltage [V] Load 100%</th></tr></thead><tbody><tr><td>8</td><td>5.037</td><td>5.036</td></tr><tr><td>9</td><td>5.037</td><td>5.036</td></tr><tr><td>10</td><td>5.037</td><td>5.036</td></tr><tr><td>12</td><td>5.037</td><td>5.036</td></tr><tr><td>15</td><td>5.037</td><td>5.036</td></tr><tr><td>18</td><td>5.037</td><td>5.036</td></tr><tr><td>20</td><td>5.037</td><td>5.036</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table> <p>Note: Slanted line shows the range of the rated input voltage.</p>		Input Voltage [V]	Output Voltage [V] Load 50%	Output Voltage [V] Load 100%	8	5.037	5.036	9	5.037	5.036	10	5.037	5.036	12	5.037	5.036	15	5.037	5.036	18	5.037	5.036	20	5.037	5.036	--	-	-	--	-	-		
Input Voltage [V]	Output Voltage [V] Load 50%	Output Voltage [V] Load 100%																															
8	5.037	5.036																															
9	5.037	5.036																															
10	5.037	5.036																															
12	5.037	5.036																															
15	5.037	5.036																															
18	5.037	5.036																															
20	5.037	5.036																															
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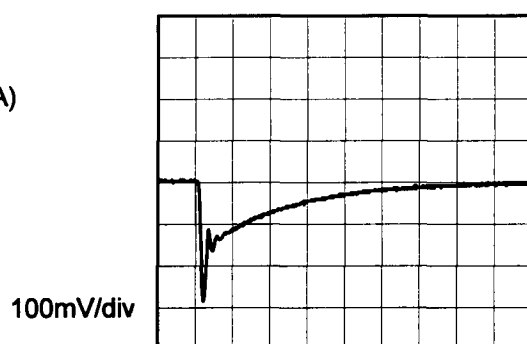
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Model	SUCS31205	Temperature	25°C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	+5V0.6A		

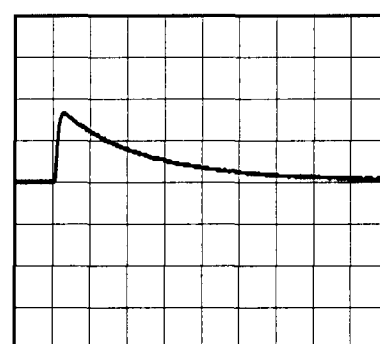
Input Volt. 12 V
Cycle 100 mS



Min. Load (0A) \longleftrightarrow
Load 100% (0.6A)

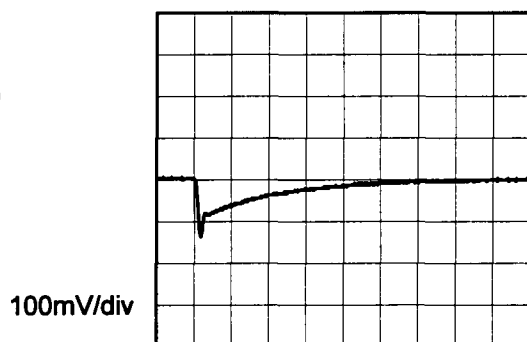


200µs/div



200µs/div

Min. Load (0A) \longleftrightarrow
Load 50% (0.3A)

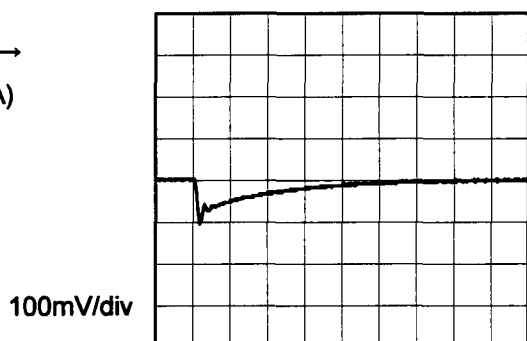


200µs/div

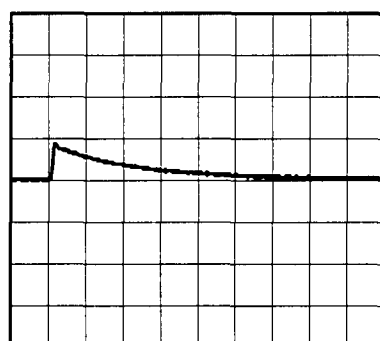


200µs/div

Load 50% (0.3A) \longleftrightarrow
Load 100% (0.6A)



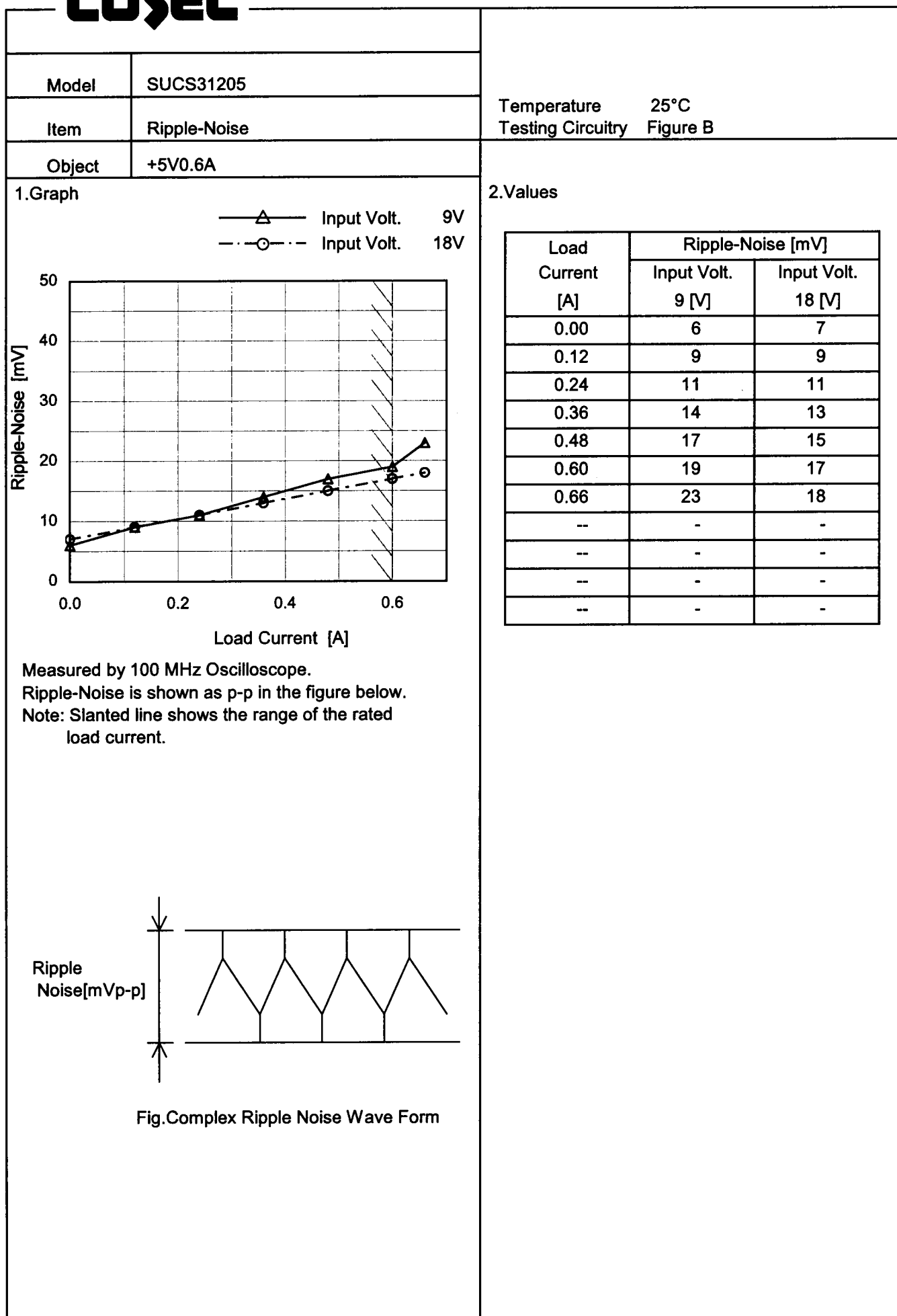
200µs/div



200µs/div

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Model		SUCS31205		Temperature Testing Circuitry	25°C Figure B
Item		Ripple Voltage (by Load Current)			
Object		+5V0.6A			
1.Graph				2.Values	
<div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div></div><div></div></div><div><div></div><div></div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> 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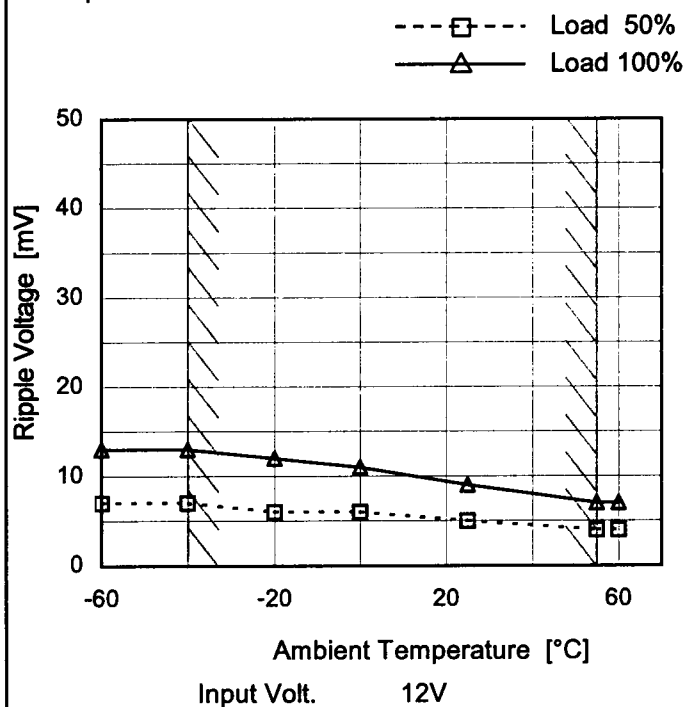
Model SUCS31205

Item Ripple Voltage (by Ambient Temp.)

Object +5V0.6A

Testing Circuitry Figure B

1.Graph






Measured by 100 MHz Oscilloscope.

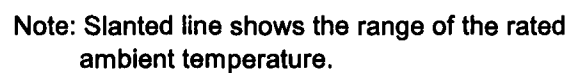
Note: Slanted line shows the range of the rated ambient temperature.

2.Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Load 50%	Load 100%
-60	7	13
-40	7	13
-20	6	12
0	6	11
25	5	9
55	4	7
60	4	7
--	-	-
--	-	-
--	-	-
--	-	-

Testing Circuitry Figure A

	Input Volt.	9V
	Input Volt.	12V
	Input Volt.	18V



Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]
-60	5.013	5.014	5.015
-40	5.023	5.024	5.024
-20	5.030	5.030	5.031
0	5.034	5.034	5.035
25	5.036	5.036	5.036
55	5.034	5.034	5.033
60	5.033	5.033	5.033
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-



Model		SUCS31205	Testing Circuitry Figure A
Item		Output Voltage Accuracy	
Object		+5V0.6A	

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 : 9 - 18V

Load Current : 0 - 0.6A

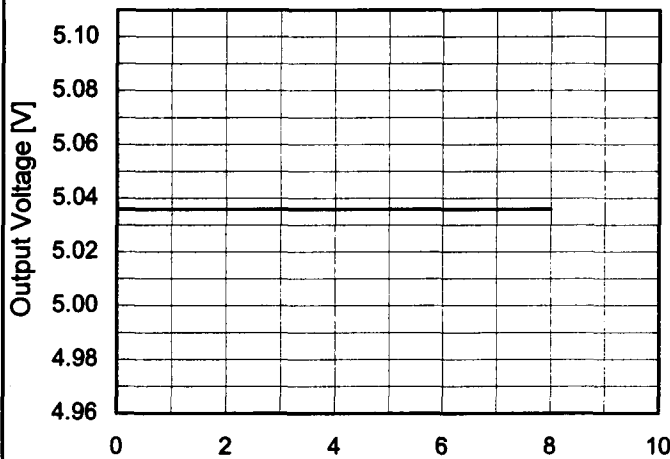
* Output Voltage Accuracy = $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

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

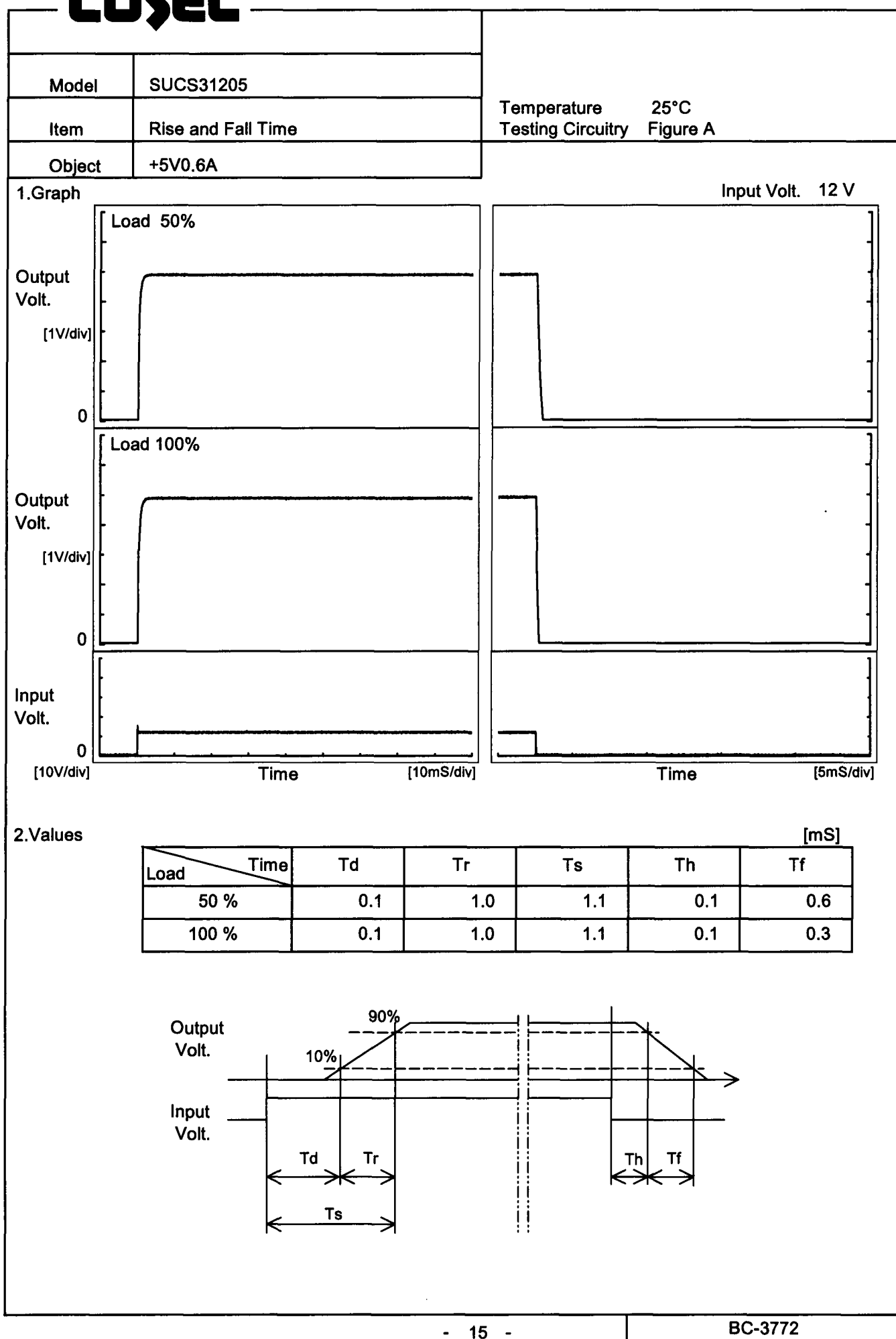
2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	25	18	0	5.039	±8	±0.2
Minimum Voltage	-40	9	0.6	5.023		

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Model	SUCS31205	Temperature 25°C Testing Circuitry Figure A																							
Item	Time Lapse Drift																								
Object	+5V0.6A																								
1.Graph		2.Values																							
<div><p>Output Voltage [V]</p><p>Time [H]</p><p>Input Volt. 12V Load 100%</p></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>5.037</td></tr><tr><td>0.5</td><td>5.036</td></tr><tr><td>1.0</td><td>5.036</td></tr><tr><td>2.0</td><td>5.036</td></tr><tr><td>3.0</td><td>5.036</td></tr><tr><td>4.0</td><td>5.036</td></tr><tr><td>5.0</td><td>5.036</td></tr><tr><td>6.0</td><td>5.036</td></tr><tr><td>7.0</td><td>5.036</td></tr><tr><td>8.0</td><td>5.036</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	5.037	0.5	5.036	1.0	5.036	2.0	5.036	3.0	5.036	4.0	5.036	5.0	5.036	6.0	5.036	7.0	5.036	8.0	5.036
Time since start [H]	Output Voltage [V]																								
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Model

SUCS31205

Item

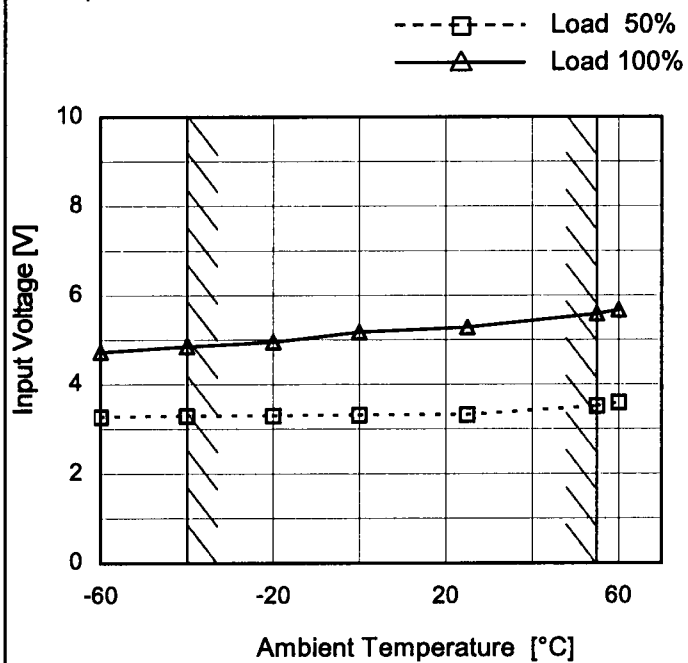
Minimum Input Voltage
for Regulated Output Voltage

Object

+5V0.6A

Testing Circuitry Figure A

1. Graph



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

2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-60	3.3	4.8
-40	3.3	4.9
-20	3.3	5.0
0	3.4	5.2
25	3.4	5.3
55	3.6	5.6
60	3.6	5.7
--	-	-
--	-	-
--	-	-
--	-	-

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Model	SUCS31205																																																									
Item	Overcurrent Protection	Temperature	25°C																																																							
Object	+5V0.6A	Testing Circuitry	Figure A																																																							
1.Graph		2.Values																																																								
<div><div><div></div>Input Volt. 9V</div><div><div></div>Input Volt. 12V</div><div><div></div>Input Volt. 18V</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. 9[V]</th><th>Input Volt. 12[V]</th><th>Input Volt. 18[V]</th></tr><tr><td>5.00</td><td>0.60</td><td>0.60</td><td>0.60</td></tr><tr><td>4.75</td><td>1.02</td><td>1.09</td><td>1.08</td></tr><tr><td>4.50</td><td>1.04</td><td>1.10</td><td>1.09</td></tr><tr><td>4.00</td><td>1.08</td><td>1.13</td><td>1.11</td></tr><tr><td>3.50</td><td>1.12</td><td>1.17</td><td>1.13</td></tr><tr><td>3.00</td><td>1.16</td><td>1.19</td><td>1.15</td></tr><tr><td>2.50</td><td>1.20</td><td>1.22</td><td>1.15</td></tr><tr><td>2.00</td><td>1.24</td><td>1.23</td><td>1.15</td></tr><tr><td>1.50</td><td>1.25</td><td>1.22</td><td>1.13</td></tr><tr><td>1.00</td><td>1.22</td><td>1.16</td><td>1.07</td></tr><tr><td>0.50</td><td>1.15</td><td>1.09</td><td>0.96</td></tr><tr><td>0.00</td><td>0.96</td><td>0.90</td><td>0.86</td></tr></table>		Output Voltage [V]	Load Current [A]			Input Volt. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]	5.00	0.60	0.60	0.60	4.75	1.02	1.09	1.08	4.50	1.04	1.10	1.09	4.00	1.08	1.13	1.11	3.50	1.12	1.17	1.13	3.00	1.16	1.19	1.15	2.50	1.20	1.22	1.15	2.00	1.24	1.23	1.15	1.50	1.25	1.22	1.13	1.00	1.22	1.16	1.07	0.50	1.15	1.09	0.96	0.00	0.96	0.90	0.86
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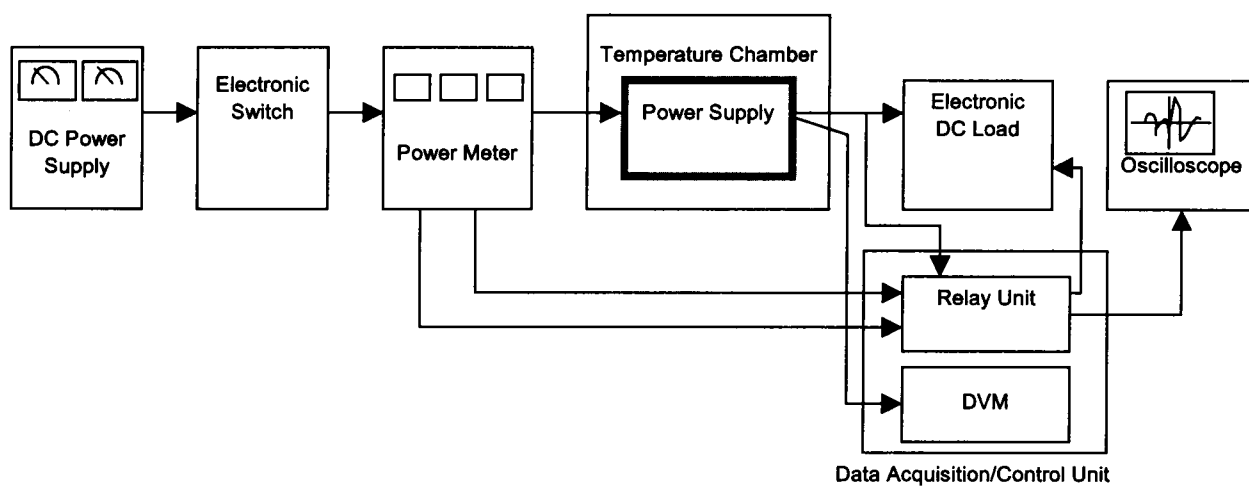


Figure A

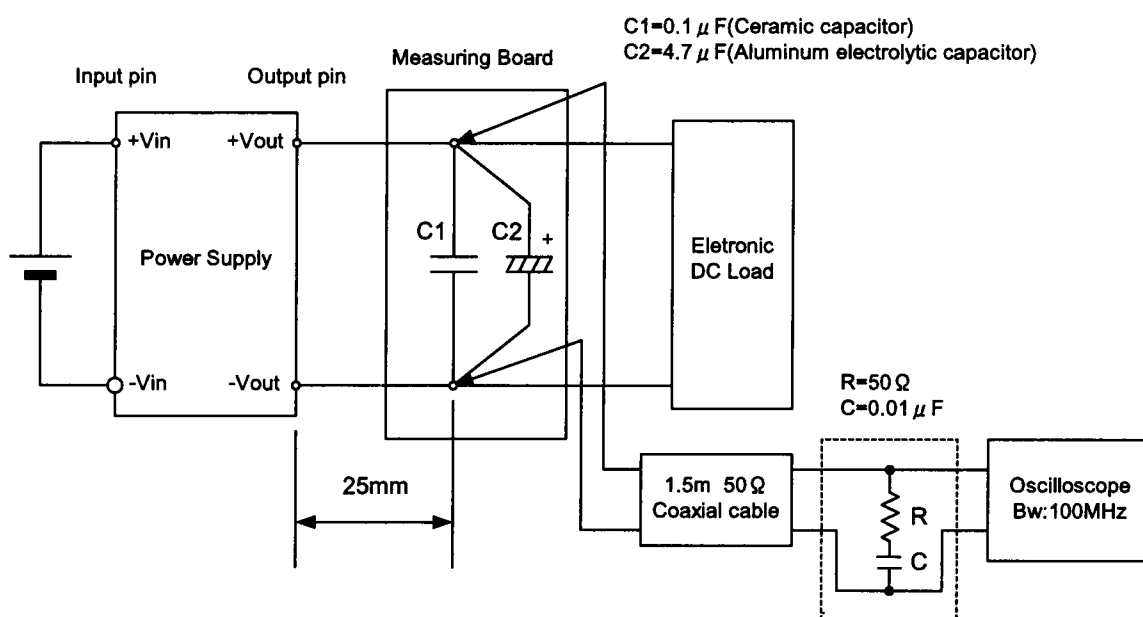


Figure B (Ripple and Ripple noise Characteristic)