

TEST DATA OF SUCS1R51205

Regulated DC Power Supply
Sep 17, 2004

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Tetsuo Sugimori Design Manager

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Masahiro Shima Design Engineer

COSEL CO.,LTD.

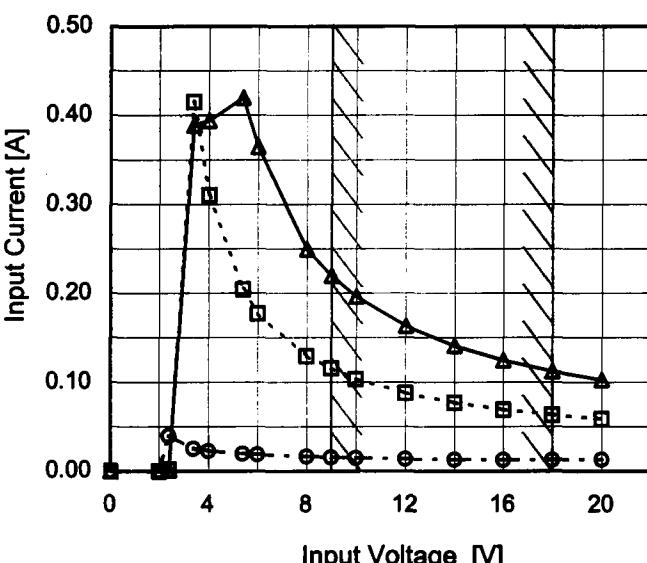


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Model	SUCS1R51205	Temperature	25°C																																																																							
Item	Input Current (by Input Voltage)	Testing Circuitry	Figure A																																																																							
Object	_____																																																																									
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Model	SUCS1R51205																																																					
Item	Input Current (by Load Current)	Temperature	25°C																																																			
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1. Graph			2. Values																																																			
<p>The graph plots Input Current [A] on the Y-axis (0.00 to 0.50) against Load Current [A] on the X-axis (0.00 to 0.30). Three data series are shown for Input Voltages of 9V, 12V, and 18V. The 9V series (solid line with open triangles) has the steepest slope. The 12V series (dashed line with open squares) is in the middle. The 18V series (dash-dot line with open circles) has the lowest slope. A solid diagonal line from (0,0) to approximately (0.3, 0.25) represents the rated load current range.</p>			<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Input Current [A]</th> </tr> <tr> <th>Input Volt. 9[V]</th> <th>Input Volt. 12[V]</th> <th>Input Volt. 18[V]</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>0.016</td><td>0.014</td><td>0.013</td></tr> <tr><td>0.06</td><td>0.055</td><td>0.044</td><td>0.034</td></tr> <tr><td>0.12</td><td>0.095</td><td>0.073</td><td>0.054</td></tr> <tr><td>0.18</td><td>0.135</td><td>0.103</td><td>0.073</td></tr> <tr><td>0.24</td><td>0.178</td><td>0.133</td><td>0.093</td></tr> <tr><td>0.30</td><td>0.221</td><td>0.164</td><td>0.113</td></tr> <tr><td>0.33</td><td>0.244</td><td>0.180</td><td>0.123</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> </tbody> </table>	Load Current [A]	Input Current [A]			Input Volt. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]	0.00	0.016	0.014	0.013	0.06	0.055	0.044	0.034	0.12	0.095	0.073	0.054	0.18	0.135	0.103	0.073	0.24	0.178	0.133	0.093	0.30	0.221	0.164	0.113	0.33	0.244	0.180	0.123	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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Model	SUCS1R51205	Temperature	25°C
Item	Input Power (by Load Current)	Testing Circuitry	Figure A
Object	—	—	—
1.Graph			
<p style="text-align: center;"> △ Input Volt. 9V □ Input Volt. 12V ○ Input Volt. 18V </p>			
<p style="text-align: center;">Input Power [W]</p> <p style="text-align: center;">Load Current [A]</p>			
<p>Note: Slanted line shows the range of the rated load current.</p>			
2.Values			
Load Current [A]	Input Power [W]		
Input Volt. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]	
0.00	0.14	0.16	0.23
0.06	0.49	0.52	0.61
0.12	0.85	0.87	0.96
0.18	1.21	1.23	1.31
0.24	1.58	1.59	1.67
0.30	1.96	1.96	2.02
0.33	2.16	2.14	2.20
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

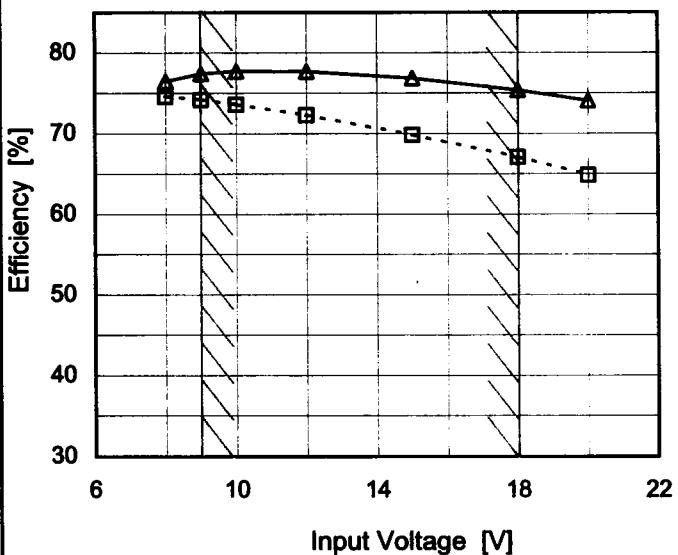
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Model	SUCS1R51205
Item	Efficiency (by Input Voltage)
Object	_____

Temperature 25°C
 Testing Circuitry Figure A

1.Graph

---□--- Load 50%
 —△— Load 100%



2.Values

Input Voltage [V]	Efficiency [%]	
	Load 50%	Load 100%
8	74.6	76.5
9	74.2	77.4
10	73.6	77.7
12	72.3	77.7
15	69.8	76.9
18	67.1	75.4
20	64.8	74.1
-	-	-
-	-	-

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

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Model	SUCS1R51205	Temperature Testing Circuitry	25°C Figure A																																																			
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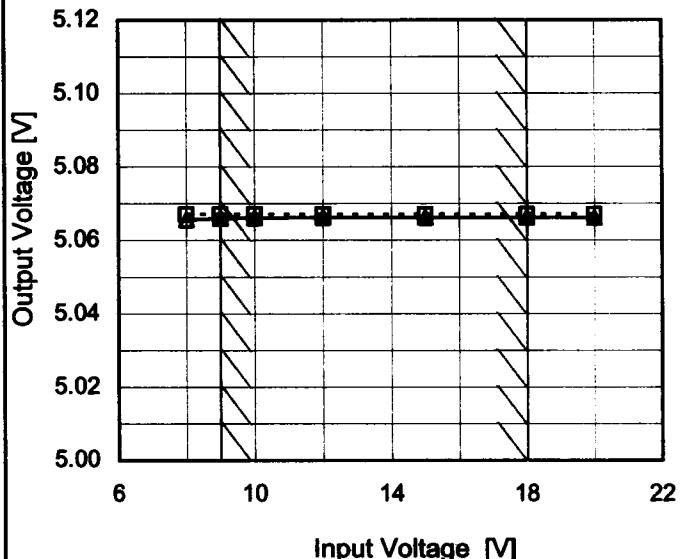
Model SUCS1R51205

Item Line Regulation

Object +5V0.3A

1. Graph

---□--- Load 50%
 —△— Load 100%



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

Temperature 25°C
 Testing Circuitry Figure A

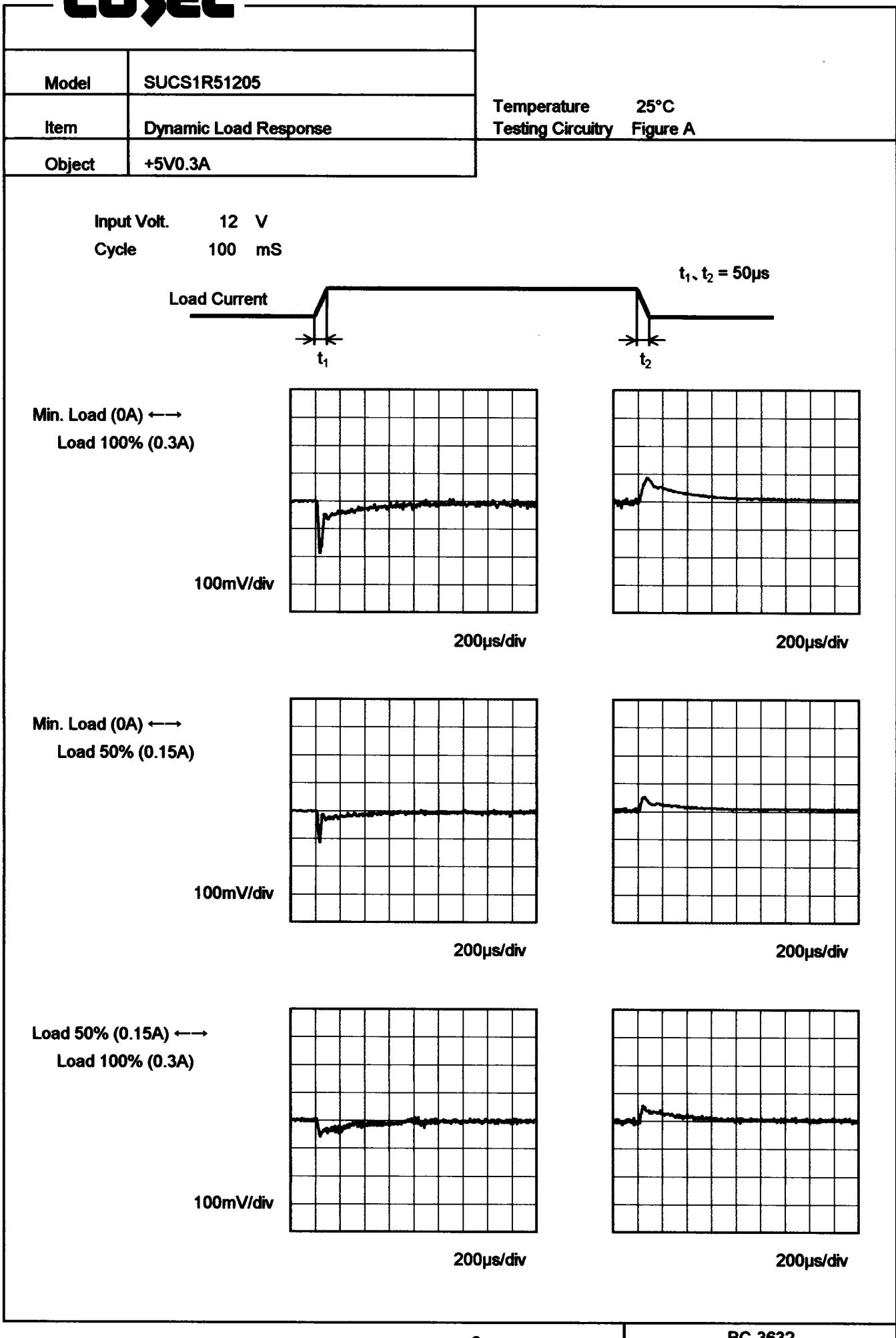
2. Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
8	5.067	5.066
9	5.067	5.066
10	5.067	5.066
12	5.067	5.066
15	5.067	5.066
18	5.067	5.066
20	5.067	5.066
-	-	-
-	-	-

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Model	SUCS1R51205	Temperature	25°C																																																			
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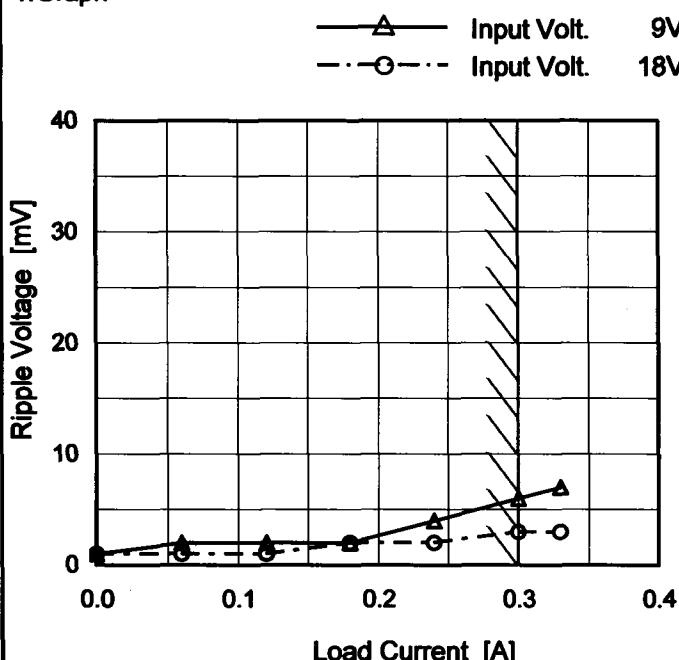
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Model	SUCS1R51205
Item	Ripple Voltage (by Load Current)
Object	+5V0.3A

1. Graph



Measured by 100 MHz Oscilloscope.

Ripple Voltage is shown as p-p in the figure below.

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

Temperature 25°C
Testing Circuitry Figure B

2. Values

Load Current [A]	Ripple Voltage [mV]	
	Input Volt. 9 [V]	Input Volt. 18 [V]
0.00	1	1
0.06	2	1
0.12	2	1
0.18	2	2
0.24	4	2
0.30	6	3
0.33	7	3
--	-	-
--	-	-
--	-	-
--	-	-

Ripple [mVp-p]

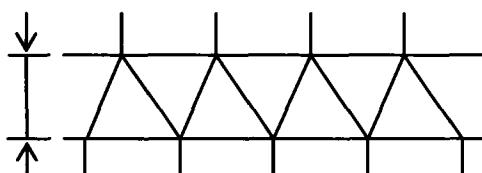
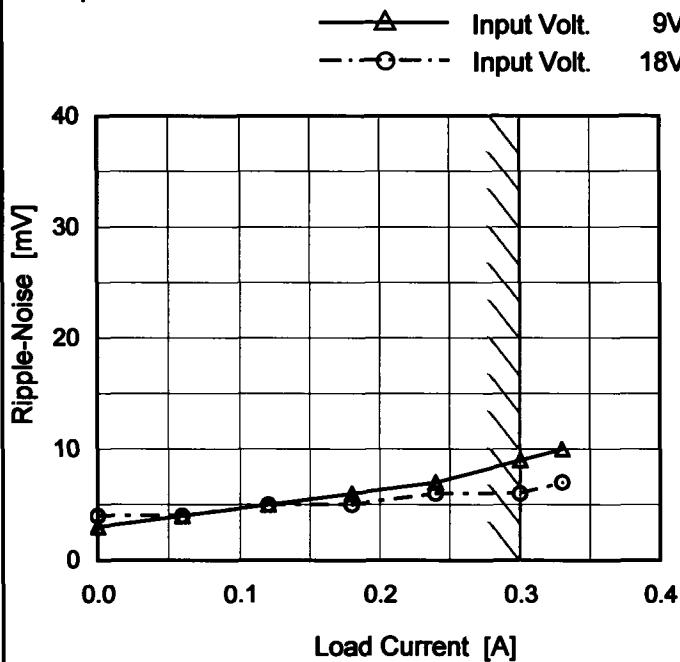


Fig.Complex Ripple Wave Form

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Model	SUCS1R51205
Item	Ripple-Noise
Object	+5V0.3A

1. Graph



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.

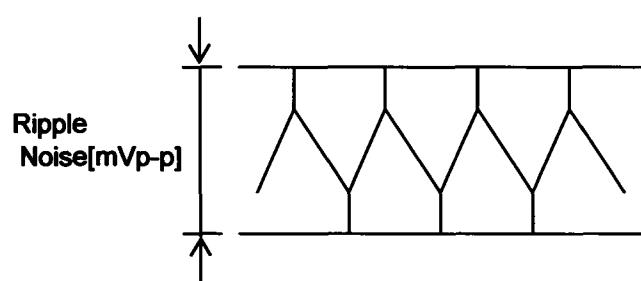


Fig.Complex Ripple Noise Wave Form

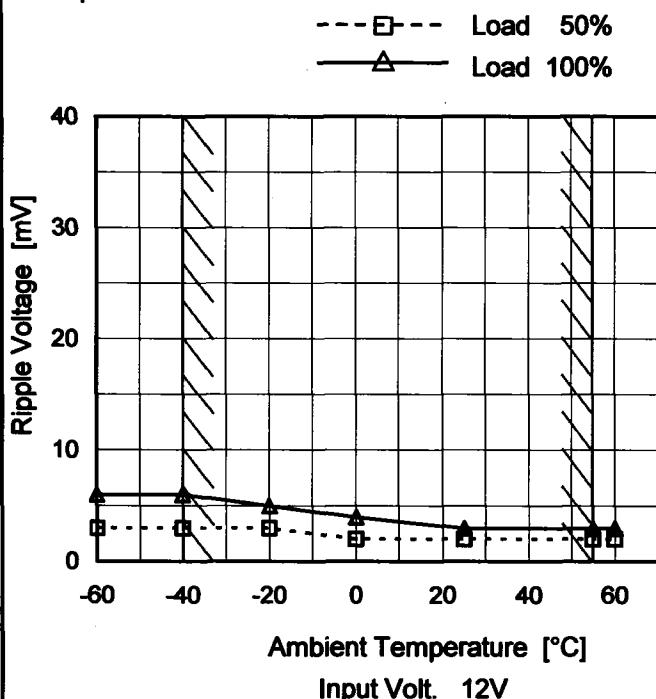
Temperature 25°C
Testing Circuitry Figure B

2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 9 [V]	Input Volt. 18 [V]
0.00	3	4
0.06	4	4
0.12	5	5
0.18	6	5
0.24	7	6
0.30	9	6
0.33	10	7
-	-	-
-	-	-
-	-	-
-	-	-

Model	SUCS1R51205
Item	Ripple Voltage (by Ambient Temp.)
Object	+5V0.3A

1. Graph



Measured by 100 MHz Oscilloscope.

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

Testing Circuitry Figure B

2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Load 50%	Load 100%
-60	3	6
-40	3	6
-20	3	5
0	2	4
25	2	3
55	2	3
60	2	3
-	-	-
-	-	-
--	-	-
--	-	-

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<p>Model SUCS1R51205</p> <p>Item Ambient Temperature Drift</p> <p>Object +5V0.3A</p>	<p>Testing Circuitry Figure A</p>																																																				
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<p>Note: Slanted line shows the range of the rated ambient temperature.</p>																																																					



Model	SUCS1R51205	Testing Circuitry Figure A
Item	Output Voltage Accuracy	
Object	+5V0.3A	

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 - 0.3A

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

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

2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	25	18	0	5.068	± 5	± 0.1
Minimum Voltage	-40	9	0.3	5.058		

COSEL

Model	SUCS1R51205	Temperature	25°C																						
Item	Time Lapse Drift	Testing Circuitry	Figure A																						
Object	+5V0.3A																								
1.Graph			2.Values																						
<p>Output Voltage [V]</p> <p>Time [H]</p> <p>Input Volt. 12V Load 100%</p>			<table border="1"> <thead> <tr> <th>Time since start [H]</th> <th>Output Voltage [V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>5.067</td></tr> <tr><td>0.5</td><td>5.066</td></tr> <tr><td>1.0</td><td>5.066</td></tr> <tr><td>2.0</td><td>5.066</td></tr> <tr><td>3.0</td><td>5.066</td></tr> <tr><td>4.0</td><td>5.066</td></tr> <tr><td>5.0</td><td>5.066</td></tr> <tr><td>6.0</td><td>5.066</td></tr> <tr><td>7.0</td><td>5.066</td></tr> <tr><td>8.0</td><td>5.066</td></tr> </tbody> </table>	Time since start [H]	Output Voltage [V]	0.0	5.067	0.5	5.066	1.0	5.066	2.0	5.066	3.0	5.066	4.0	5.066	5.0	5.066	6.0	5.066	7.0	5.066	8.0	5.066
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COSEL

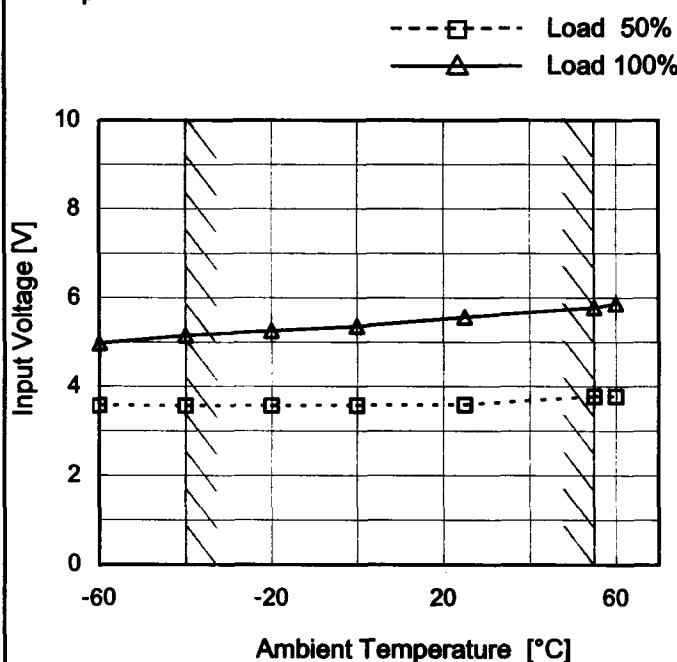
Model	SUCS1R51205	Temperature Testing Circuitry	25°C Figure A
Item	Rise and Fall Time		
Object	+5V0.3A		
1. Graph			
			Input Volt. 9 V
<img alt="Graph showing Output Volt. vs			

COSEL

Model	SUCS1R51205
Item	Minimum Input Voltage for Regulated Output Voltage
Object	+5V0.3A

Testing Circuitry Figure A

1.Graph



2.Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-60	3.6	5.0
-40	3.6	5.2
-20	3.6	5.3
0	3.6	5.4
25	3.6	5.6
55	3.8	5.8
60	3.8	5.9
--	-	-
--	-	-
--	-	-
--	-	-

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

COSEL

Model	SUCS1R51205
Item	Overcurrent Protection
Object	+5V0.3A

1. Graph

Output Voltage [V]

Load Current [A]

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

Legend:

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

Temperature 25°C
Testing Circuitry Figure A

2. Values

Output Voltage [V]	Load Current [A]		
	Input Volt. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]
5.00	0.30	0.30	0.30
4.75	0.46	0.47	0.44
4.50	0.48	0.47	0.44
4.00	0.50	0.49	0.45
3.50	0.52	0.51	0.47
3.00	0.54	0.53	0.48
2.50	0.57	0.54	0.49
2.00	0.59	0.55	0.49
1.50	0.60	0.55	0.48
1.00	0.60	0.53	0.47
0.50	0.57	0.50	0.45
0.00	0.61	0.51	0.46

COSEL

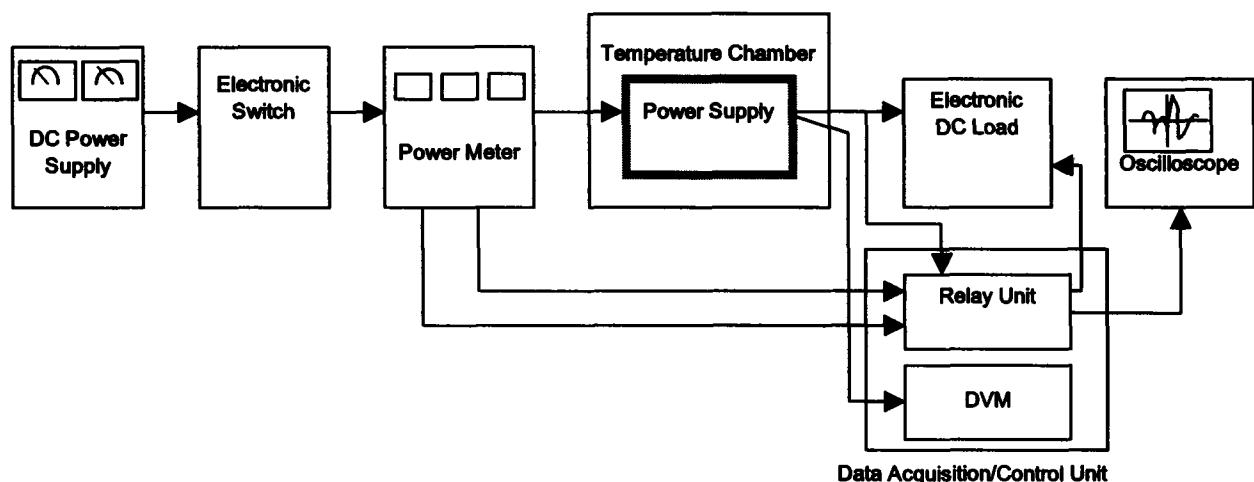


Figure A

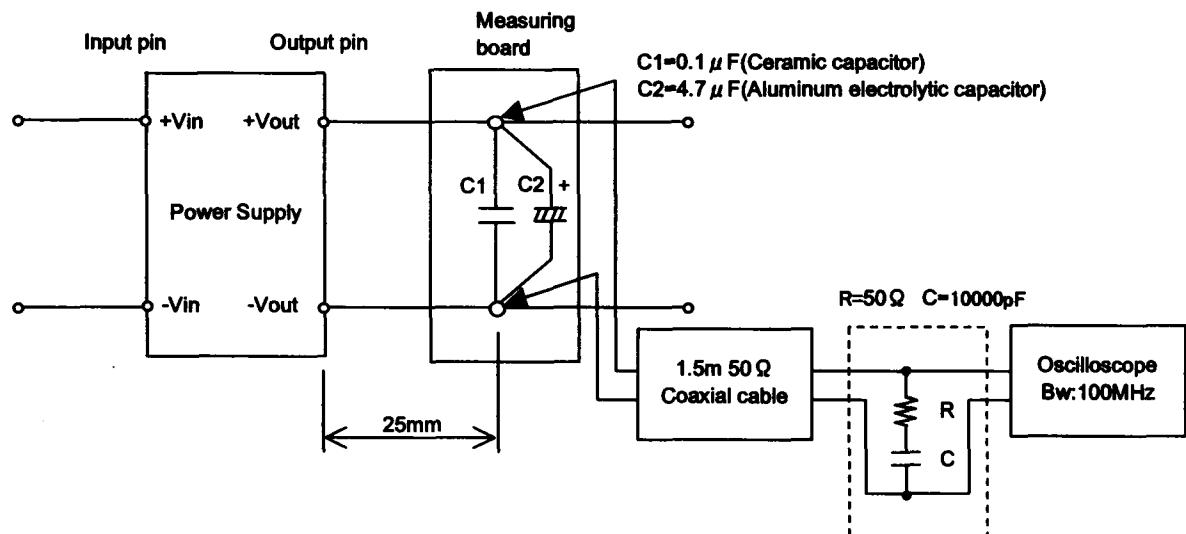


Figure B (Ripple and Ripple noise Characteristic)