

TEST DATA OF SUCS1R50515

Regulated DC Power Supply
Sep 15, 2004

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Tetsuo Sugimori Design Manager

Prepared by : Masahiro Shima
Masahiro Shima Design Engineer

COSEL CO.,LTD.

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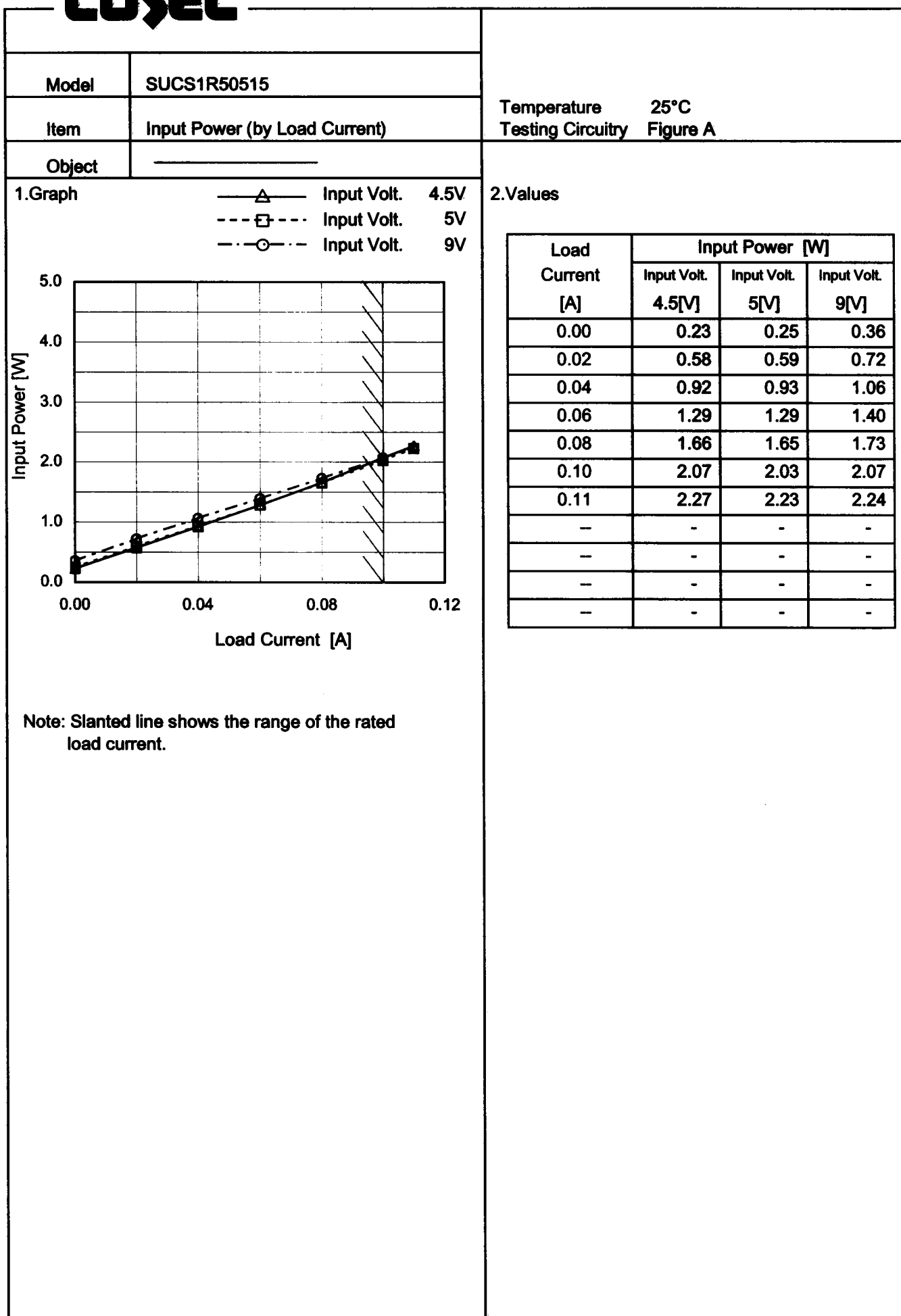
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Model		SUCS1R50515	
Item		Input Current (by Input Voltage)	
Object			
1.Graph		2.Values	
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Model		SUCS1R50515		Temperature 25°C																																																				
Item		Input Current (by Load Current)		Testing Circuitry Figure A																																																				
Object		_____																																																						
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>Input Current [A]</p> <p>Load Current [A]</p>				<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Input 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>0.00</td><td>0.052</td><td>0.050</td><td>0.040</td></tr><tr><td>0.02</td><td>0.128</td><td>0.118</td><td>0.080</td></tr><tr><td>0.04</td><td>0.206</td><td>0.189</td><td>0.117</td></tr><tr><td>0.06</td><td>0.290</td><td>0.262</td><td>0.154</td></tr><tr><td>0.08</td><td>0.372</td><td>0.332</td><td>0.192</td></tr><tr><td>0.10</td><td>0.469</td><td>0.412</td><td>0.231</td></tr><tr><td>0.11</td><td>0.506</td><td>0.444</td><td>0.249</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. 4.5[V]	Input Volt. 5[V]	Input Volt. 9[V]	0.00	0.052	0.050	0.040	0.02	0.128	0.118	0.080	0.04	0.206	0.189	0.117	0.06	0.290	0.262	0.154	0.08	0.372	0.332	0.192	0.10	0.469	0.412	0.231	0.11	0.506	0.444	0.249	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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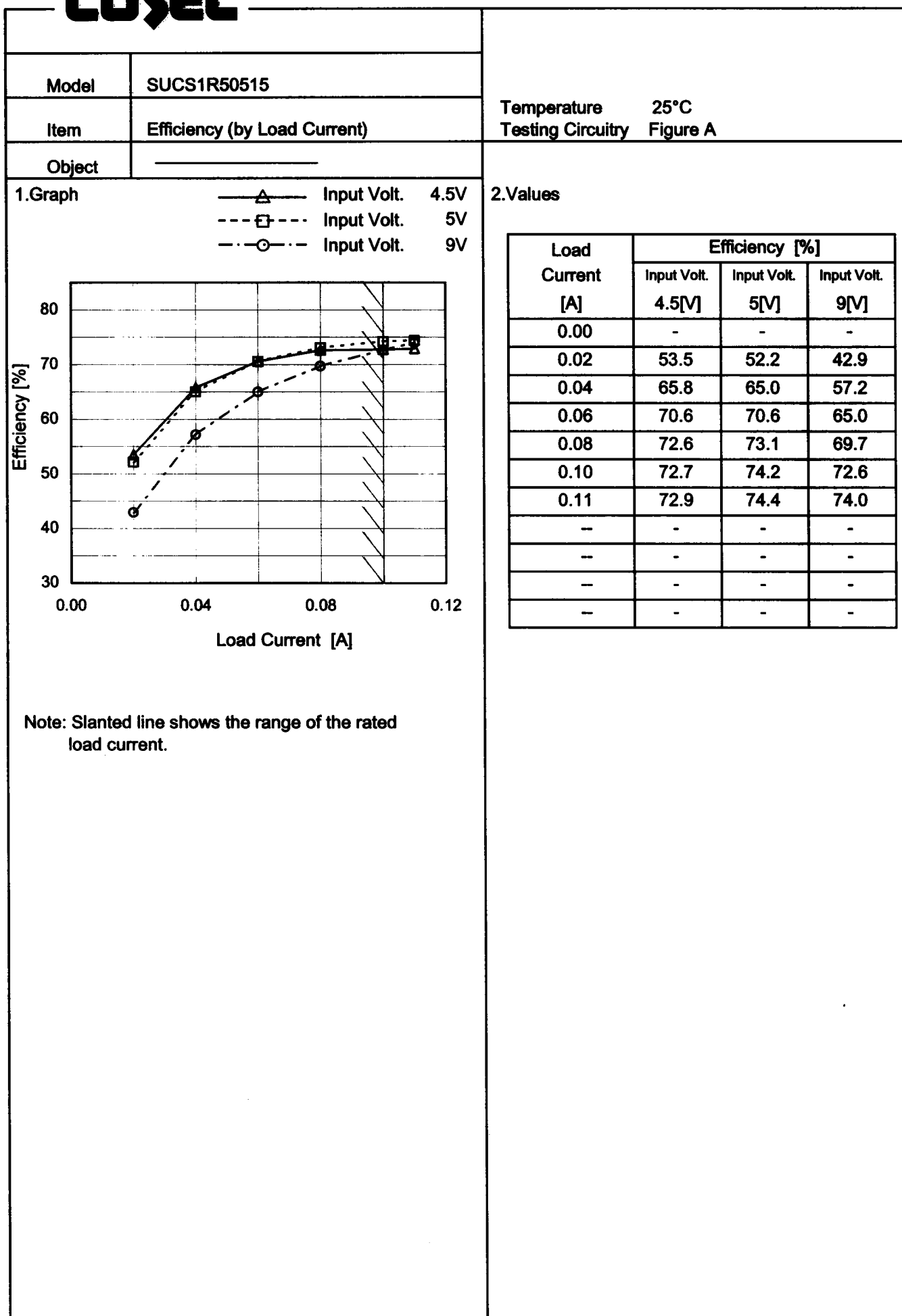
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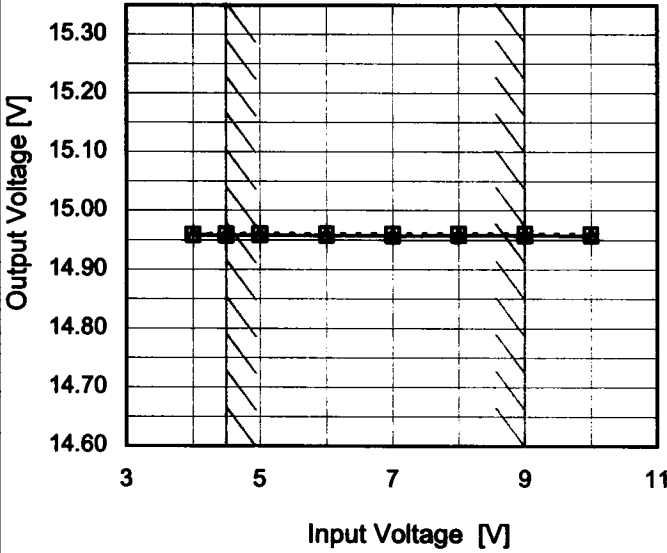
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Item		Efficiency (by Input Voltage)																																	
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Input Voltage [V]	Efficiency [%]																																		
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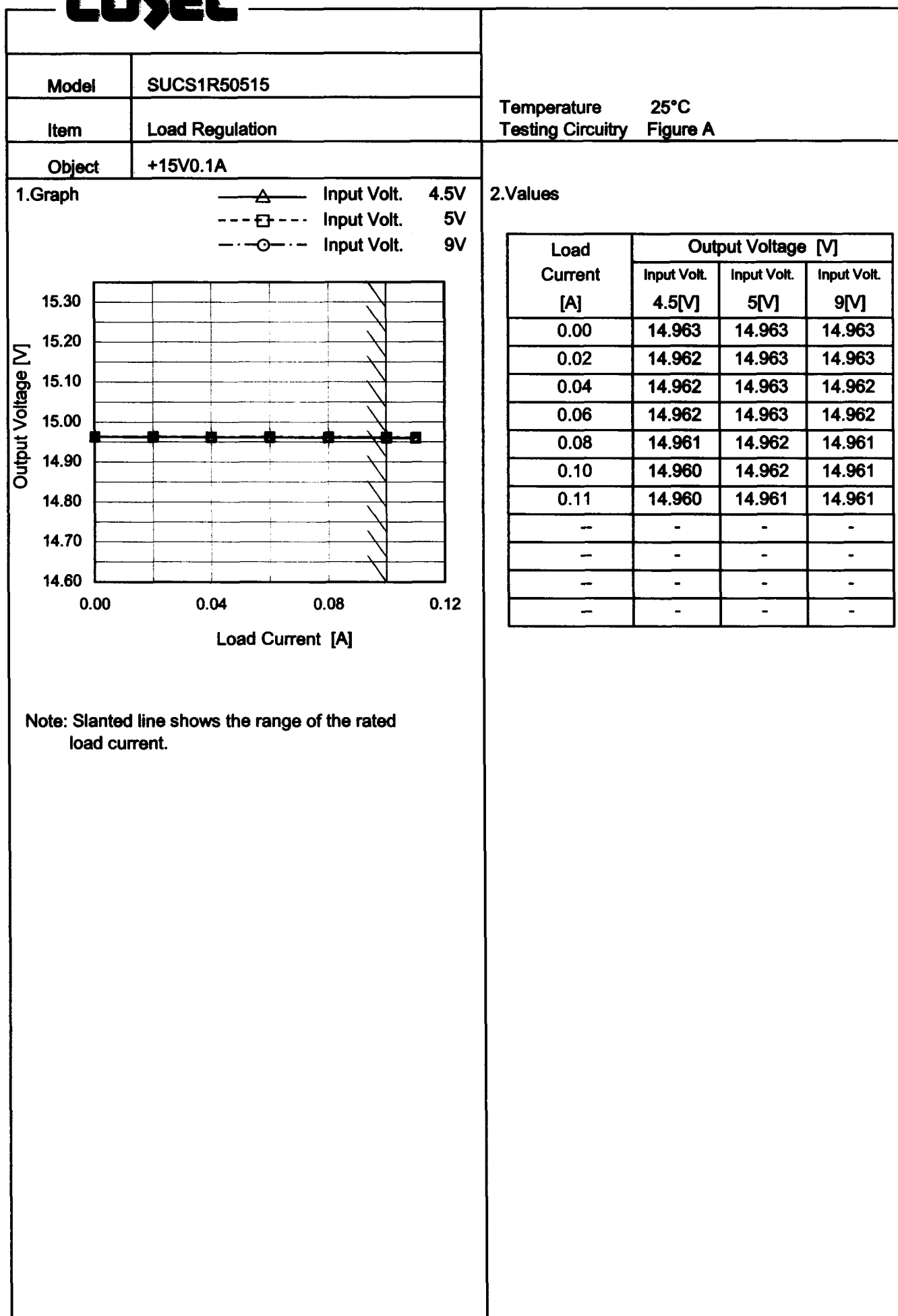
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Model		SUCS1R50515																																	
Item		Line Regulation																																	
Object		+15V0.1A																																	
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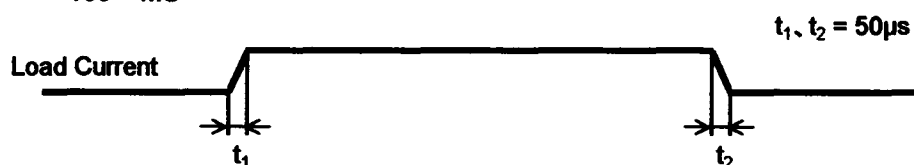
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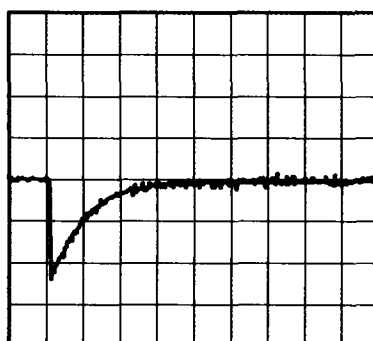
Model	SUCS1R50515	Temperature	25°C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	+15V0.1A		

Input Volt. 5 V
Cycle 100 mS

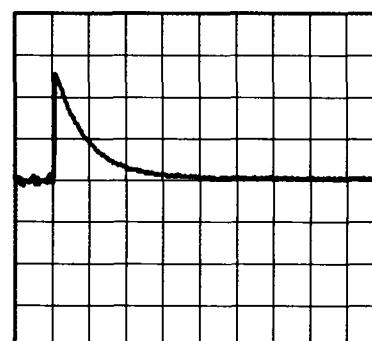


Min. Load (0A) \longleftrightarrow
Load 100% (0.1A)

100mV/div



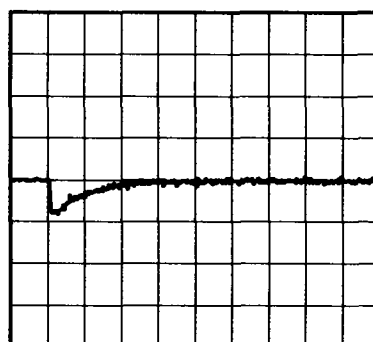
2ms/div



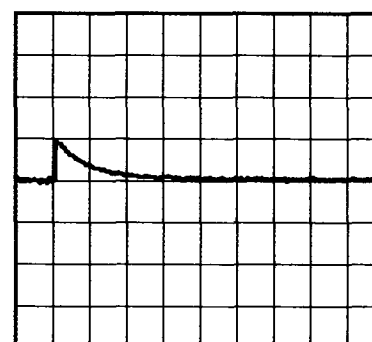
2ms/div

Min. Load (0A) \longleftrightarrow
Load 50% (0.05A)

100mV/div



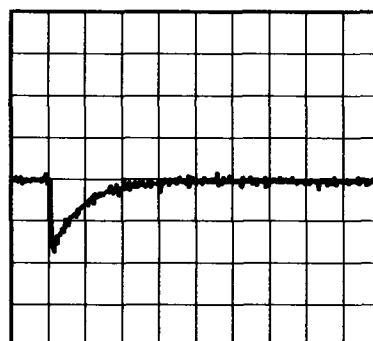
2ms/div



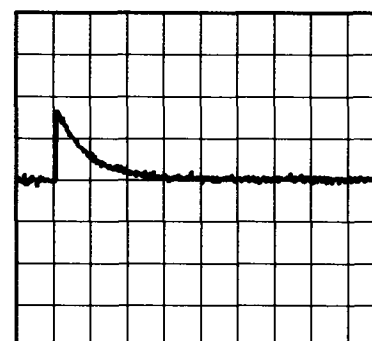
2ms/div

Load 50% (0.05A) \longleftrightarrow
Load 100% (0.1A)

100mV/div



2ms/div



2ms/div

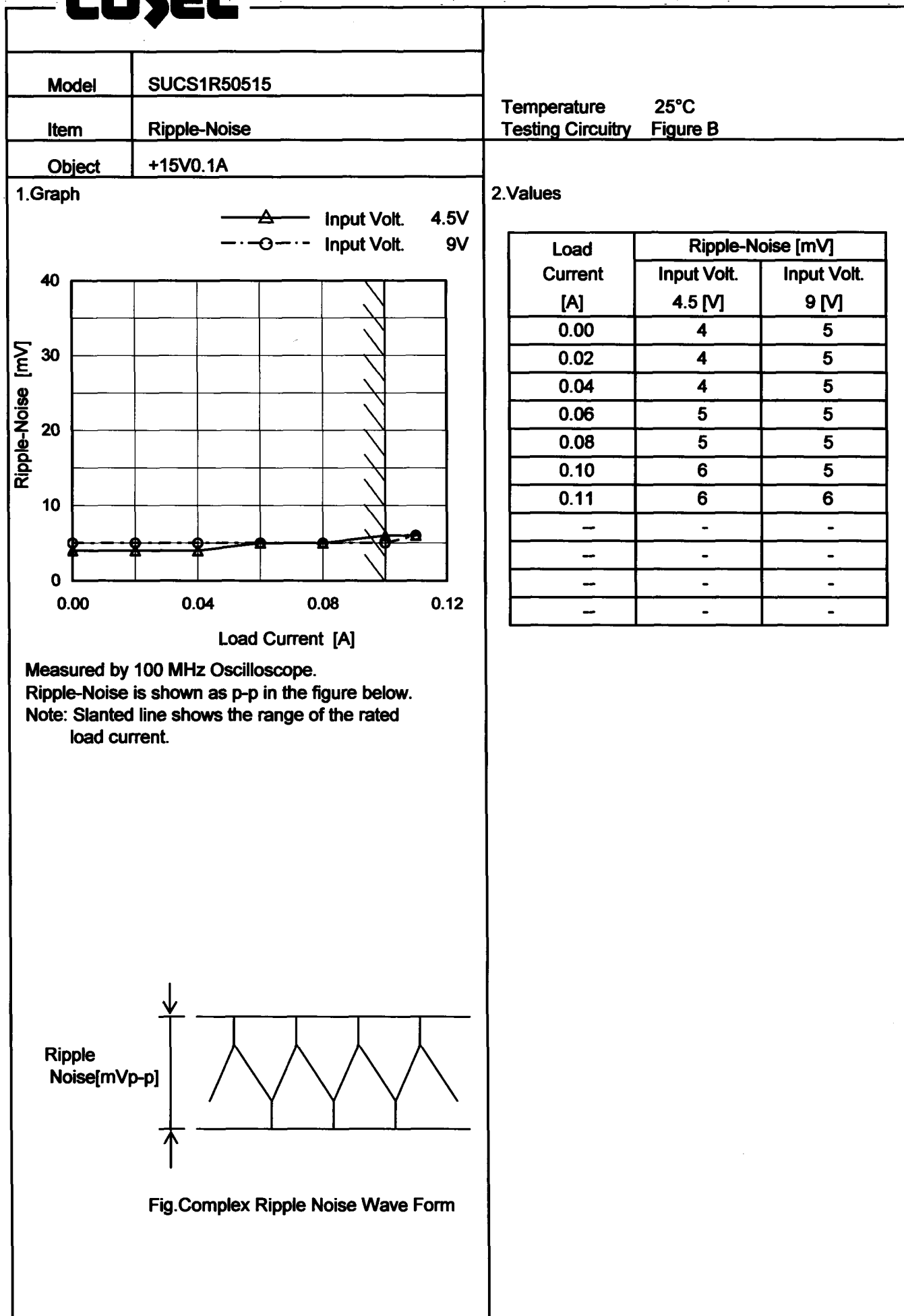
COSEL

Model	SUCS1R50515	Temperature 25°C Testing Circuitry Figure B																																							
Item	Ripple Voltage (by Load Current)																																								
Object	+15V0.1A																																								
1.Graph		2.Values																																							
<div><div><div>—△— Input Volt. 4.5V</div><div>-·-○-·- Input Volt. 9V</div></div><div>Ripple Voltage [mV]</div><div>Load Current [A]</div></div>		<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>0.00</td><td>2</td><td>2</td></tr><tr><td>0.02</td><td>2</td><td>2</td></tr><tr><td>0.04</td><td>2</td><td>2</td></tr><tr><td>0.06</td><td>2</td><td>2</td></tr><tr><td>0.08</td><td>2</td><td>2</td></tr><tr><td>0.10</td><td>2</td><td>2</td></tr><tr><td>0.11</td><td>2</td><td>2</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]	0.00	2	2	0.02	2	2	0.04	2	2	0.06	2	2	0.08	2	2	0.10	2	2	0.11	2	2	--	-	-	--	-	-	--	-	-	--	-	-
Load Current [A]	Ripple Voltage [mV]																																								
	Input Volt. 4.5 [V]	Input Volt. 9 [V]																																							
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0.08	2	2																																							
0.10	2	2																																							
0.11	2	2																																							
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--	-	-																																							
<div>Measured by 100 MHz Oscilloscope.</div> <div>Ripple Voltage is shown as p-p in the figure below.</div> <div>Note: Slanted line shows the range of the rated load current.</div>																																									
<div><div>Ripple [mVp-p]</div><div>Fig.Complex Ripple Wave Form</div></div>																																									

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COSEL



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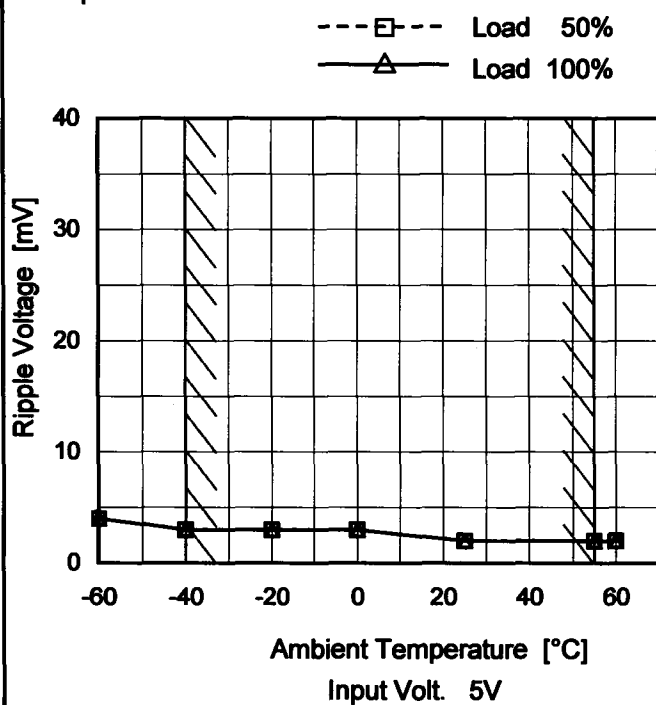
Model SUCS1R50515

Item Ripple Voltage (by Ambient Temp.)

Object +15V0.1A

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	4	4
-40	3	3
-20	3	3
0	3	3
25	2	2
55	2	2
60	2	2
—	—	—
—	—	—
—	—	—
—	—	—

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COSEL		Testing Circuitry Figure A
Model	SUCS1R50515	
Item	Output Voltage Accuracy	
Object	+15V0.1A	

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 - 0.1A

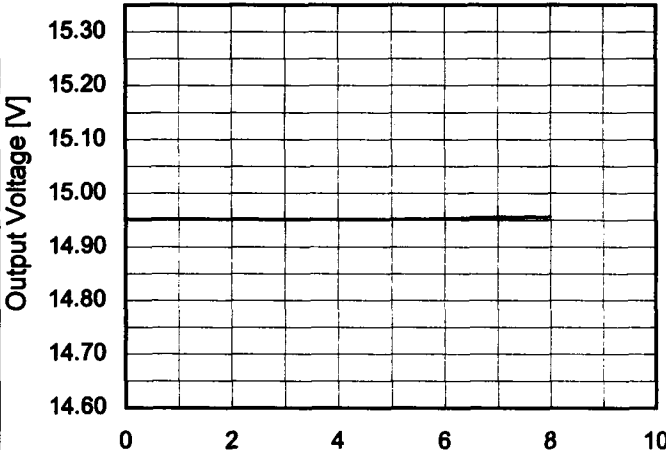
* Output Voltage Accuracy = $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

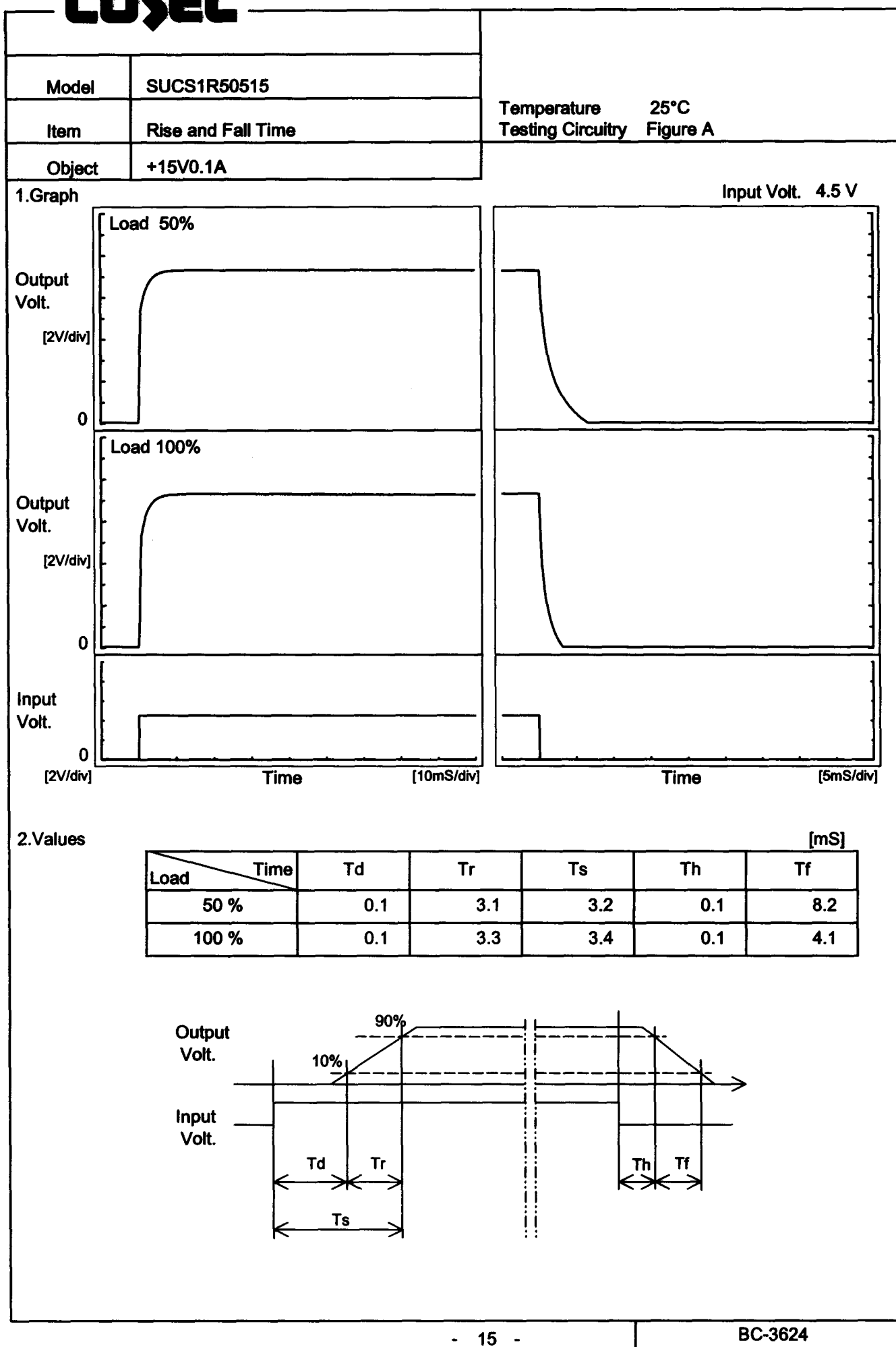
* Output Voltage Accuracy (Ratio) = $\frac{\text{Output Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$

2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ratio [%]
Maximum Voltage	-20	5	0	14.957	±15	±0.1
Minimum Voltage	55	9	0.1	14.927		

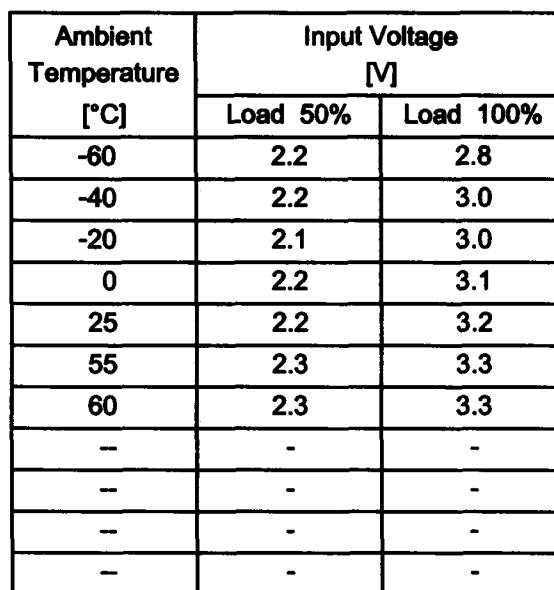
COSEL

Model	SUCS1R50515	Temperature 25°C Testing Circuitry Figure A																							
Item	Time Lapse Drift																								
Object	+15V0.1A																								
1.Graph		2.Values																							
<div><p>Output Voltage [V]</p><p>Time [H]</p><p>Input Volt. 5V Load 100%</p></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>14.958</td></tr><tr><td>0.5</td><td>14.952</td></tr><tr><td>1.0</td><td>14.952</td></tr><tr><td>2.0</td><td>14.952</td></tr><tr><td>3.0</td><td>14.952</td></tr><tr><td>4.0</td><td>14.952</td></tr><tr><td>5.0</td><td>14.952</td></tr><tr><td>6.0</td><td>14.953</td></tr><tr><td>7.0</td><td>14.956</td></tr><tr><td>8.0</td><td>14.957</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	14.958	0.5	14.952	1.0	14.952	2.0	14.952	3.0	14.952	4.0	14.952	5.0	14.952	6.0	14.953	7.0	14.956	8.0	14.957
Time since start [H]	Output Voltage [V]																								
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6.0	14.953																								
7.0	14.956																								
8.0	14.957																								

COSEL

Testing Circuitry Figure A

2.Values



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

COSEL

Model	SUCS1R50515																																																									
Item	Overcurrent Protection	Temperature	25°C																																																							
Object	+15V0.1A	Testing Circuitry	Figure A																																																							
1.Graph		2.Values																																																								
<div><div><div></div><div>Input Volt. 4.5V</div></div><div><div></div><div>Input Volt. 5V</div></div><div><div></div><div>Input Volt. 9V</div></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>15.0</td><td>0.10</td><td>0.10</td><td>0.10</td></tr><tr><td>14.3</td><td>0.16</td><td>0.17</td><td>0.17</td></tr><tr><td>13.5</td><td>0.16</td><td>0.18</td><td>0.17</td></tr><tr><td>12.0</td><td>0.17</td><td>0.19</td><td>0.18</td></tr><tr><td>10.5</td><td>0.18</td><td>0.20</td><td>0.18</td></tr><tr><td>9.0</td><td>0.20</td><td>0.21</td><td>0.19</td></tr><tr><td>7.5</td><td>0.21</td><td>0.22</td><td>0.19</td></tr><tr><td>6.0</td><td>0.23</td><td>0.24</td><td>0.19</td></tr><tr><td>4.5</td><td>0.24</td><td>0.24</td><td>0.19</td></tr><tr><td>3.0</td><td>0.24</td><td>0.24</td><td>0.18</td></tr><tr><td>1.5</td><td>0.23</td><td>0.23</td><td>0.17</td></tr><tr><td>0.0</td><td>0.27</td><td>0.30</td><td>0.27</td></tr></table>		Output Voltage [V]	Load Current [A]			Input Volt. 4.5[V]	Input Volt. 5[V]	Input Volt. 9[V]	15.0	0.10	0.10	0.10	14.3	0.16	0.17	0.17	13.5	0.16	0.18	0.17	12.0	0.17	0.19	0.18	10.5	0.18	0.20	0.18	9.0	0.20	0.21	0.19	7.5	0.21	0.22	0.19	6.0	0.23	0.24	0.19	4.5	0.24	0.24	0.19	3.0	0.24	0.24	0.18	1.5	0.23	0.23	0.17	0.0	0.27	0.30	0.27
Output Voltage [V]	Load Current [A]																																																									
	Input Volt. 4.5[V]	Input Volt. 5[V]	Input Volt. 9[V]																																																							
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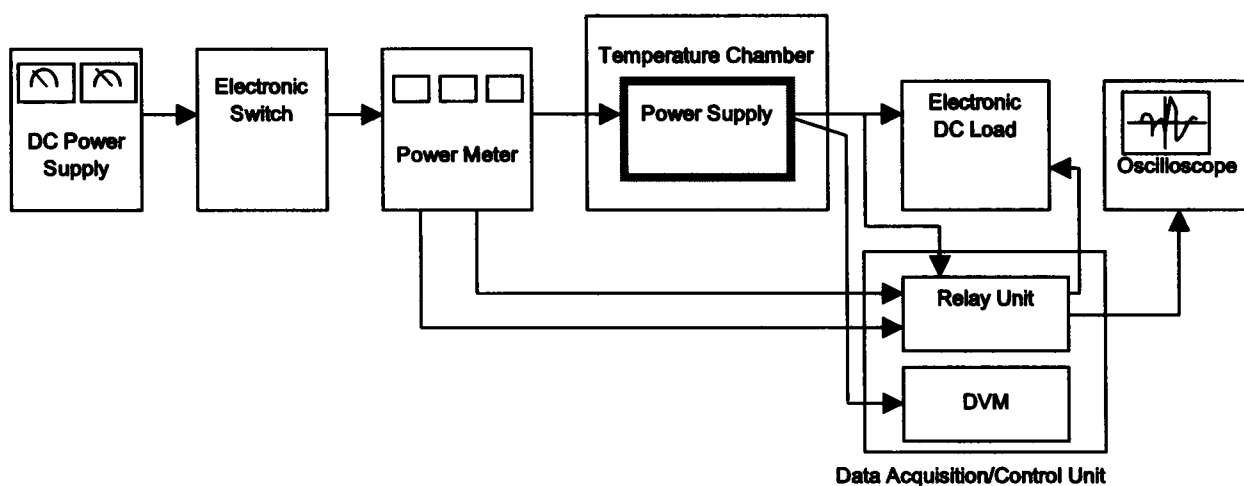


Figure A

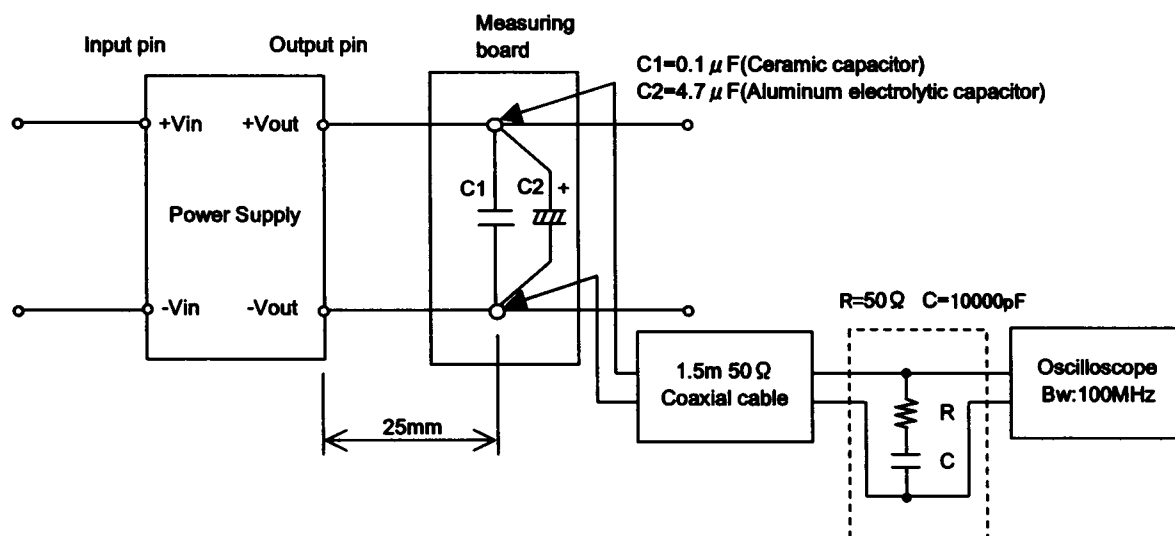


Figure B (Ripple and Ripple noise Characteristic)