



TEST DATA OF SUS1R52415

Regulated DC Power Supply
Sep 17, 2004

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Tetsuo Sugimori Design Manager

Prepared by : Masahiro Shima
Masahiro Shima Design Engineer

COSEL CO.,LTD.



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Model	SUS1R52415
Item	Input Current (by Input Voltage)
Object	<p>1.Graph</p> <p>Note: Slanted line shows the range of the rated input voltage.</p>

Temperature 25°C
Testing Circuitry Figure A

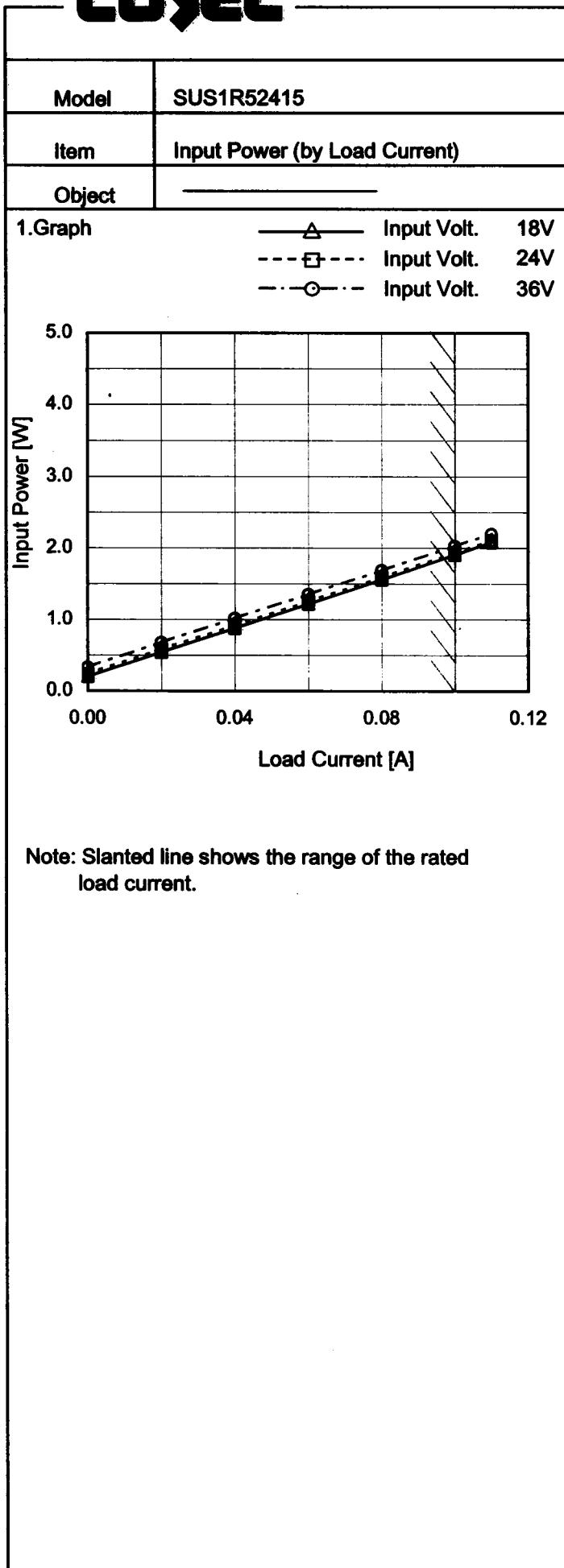
2.Values

Input Voltage [V]	Input Current [A]		
	Load 0%	Load 50%	Load 100%
0	0.000	0.000	0.000
4.0	0.000	0.000	0.000
8.0	0.019	0.199	0.174
8.4	0.018	0.160	0.201
12.0	0.013	0.084	0.158
16.0	0.012	0.064	0.117
18.0	0.011	0.058	0.104
20.0	0.011	0.052	0.094
24.0	0.010	0.045	0.080
28.0	0.009	0.039	0.069
32.0	0.009	0.035	0.061
36.0	0.009	0.032	0.056
40.0	0.010	0.030	0.051
-	-	-	-
-	-	-	-
-	-	-	-

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Model	SUS1R52415	Temperature Testing Circuitry	25°C Figure A																																																			
Item	Input Current (by Load Current)																																																					
Object	_____																																																					
1.Graph	<p style="text-align: center;"> —△— Input Volt. 18V ---□--- Input Volt. 24V ---○--- Input Volt. 36V </p>	2.Values																																																				
			<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Input Current [A]</th> </tr> <tr> <th>18[V]</th> <th>24[V]</th> <th>36[V]</th> </tr> </thead> <tbody> <tr><td>0.00</td><td>0.011</td><td>0.010</td><td>0.009</td></tr> <tr><td>0.02</td><td>0.030</td><td>0.024</td><td>0.019</td></tr> <tr><td>0.04</td><td>0.049</td><td>0.038</td><td>0.028</td></tr> <tr><td>0.06</td><td>0.068</td><td>0.052</td><td>0.038</td></tr> <tr><td>0.08</td><td>0.087</td><td>0.067</td><td>0.047</td></tr> <tr><td>0.10</td><td>0.106</td><td>0.081</td><td>0.056</td></tr> <tr><td>0.11</td><td>0.115</td><td>0.088</td><td>0.061</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]			18[V]	24[V]	36[V]	0.00	0.011	0.010	0.009	0.02	0.030	0.024	0.019	0.04	0.049	0.038	0.028	0.06	0.068	0.052	0.038	0.08	0.087	0.067	0.047	0.10	0.106	0.081	0.056	0.11	0.115	0.088	0.061	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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Note: Slanted line shows the range of the rated load current.

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Temperature 25°C
Testing Circuitry Figure A

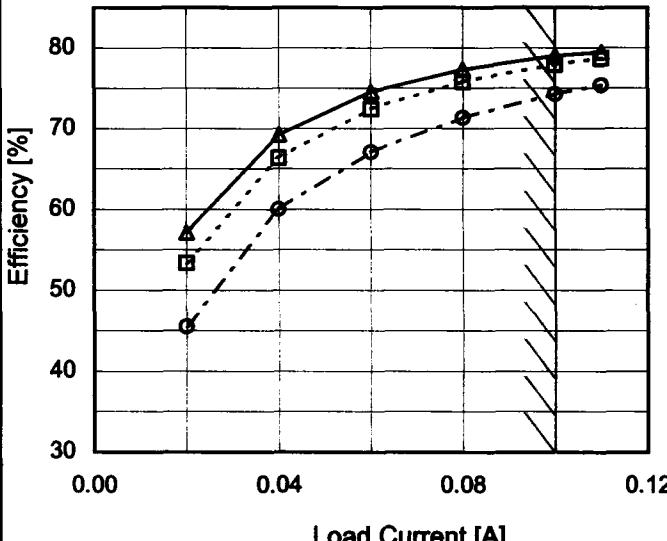
2. Values

Load Current [A]	Input Power [W]		
	18[V]	24[V]	36[V]
0.00	0.20	0.24	0.33
0.02	0.54	0.58	0.68
0.04	0.88	0.92	1.02
0.06	1.22	1.25	1.35
0.08	1.56	1.59	1.69
0.10	1.91	1.94	2.03
0.11	2.09	2.11	2.20
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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Model	SUS1R52415																																	
Item	Efficiency (by Input Voltage)	Temperature 25°C Testing Circuitry Figure A																																
Object	—	—																																
1.Graph																																		
<p>Efficiency [%]</p> <p>Input Voltage [V]</p> <p>Legend: Load 50% (dashed line with squares), Load 100% (solid line with triangles)</p>																																		
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COSEL

Model	SUS1R52415					
Item	Efficiency (by Load Current)					
Object	_____					
1.Graph	—▲— Input Volt. 18V - - □- - Input Volt. 24V - - ○- - Input Volt. 36V					
						
Note: Slanted line shows the range of the rated load current.						
Temperature	25°C					
Testing Circuitry	Figure A					
2.Values						
Load Current [A]	Efficiency [%]					
	Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]			
0.00	-	-	-			
0.02	57.1	53.4	45.5			
0.04	69.2	66.4	60.0			
0.06	74.6	72.4	67.1			
0.08	77.3	75.8	71.3			
0.10	79.0	77.9	74.3			
0.11	79.5	78.7	75.4			
-	-	-	-			
-	-	-	-			
-	-	-	-			
-	-	-	-			

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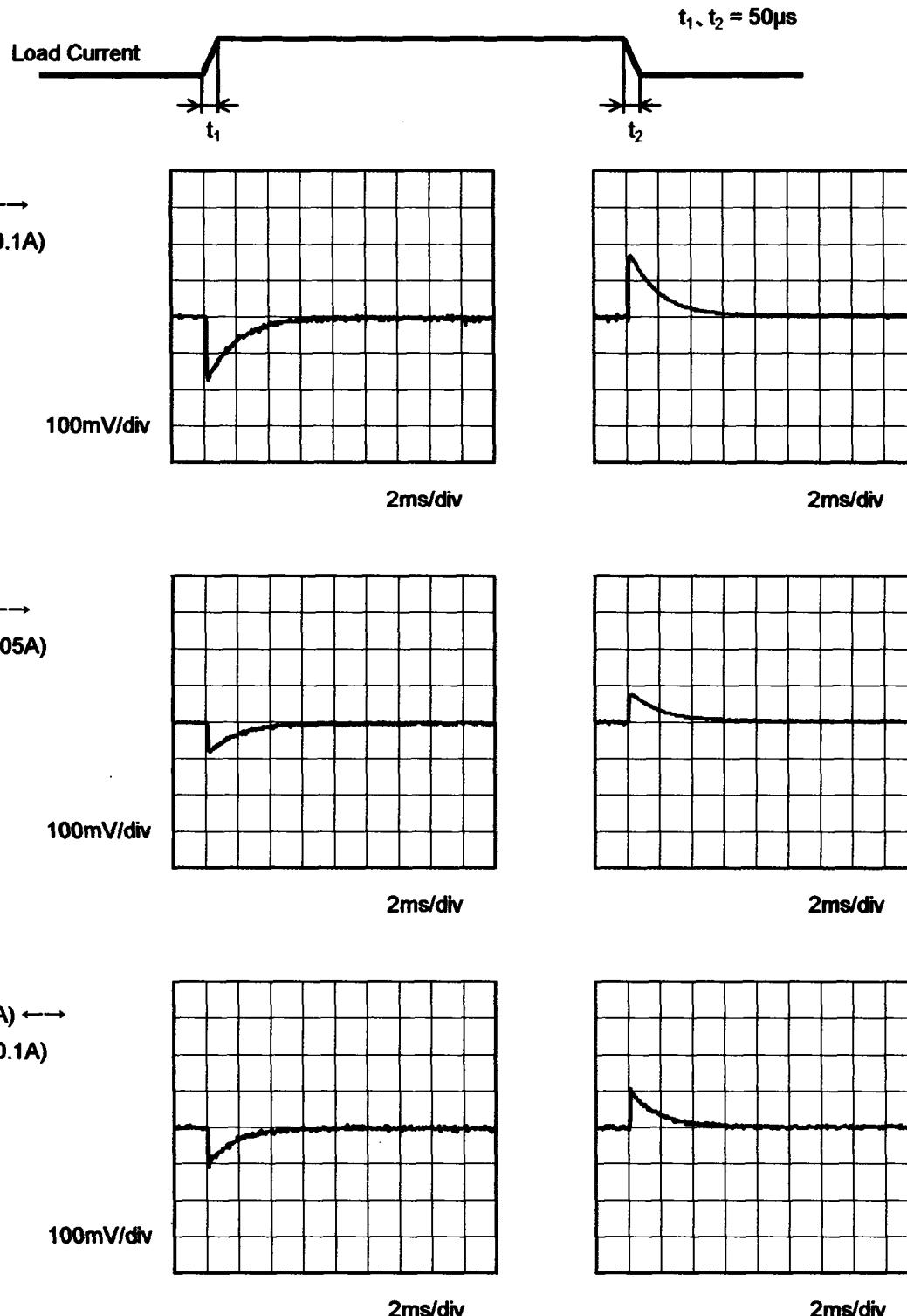
Model	SUS1R52415																																	
Item	Line Regulation	Temperature 25°C Testing Circuitry Figure A																																
Object	+15V0.1A																																	
1.Graph																																		
<p>Output Voltage [V]</p> <p>Input Voltage [V]</p> <p>Legend:</p> <ul style="list-style-type: none"> Load 50% (Squares) Load 100% (Triangles) 																																		
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COSEL

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

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Model	SUS1R52415
Item	Dynamic Load Response
Object	+15V0.1A

Temperature 25°C
Testing Circuitry Figure AInput Volt. 24 V
Cycle 100 mS

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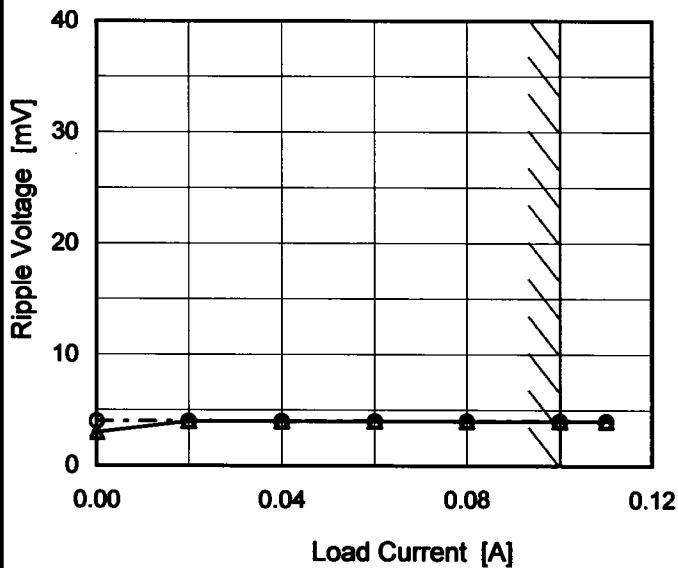
Model SUS1R52415

Item Ripple Voltage (by Load Current)

Object +15V0.1A

1. Graph

—△— Input Volt. 18V
 -○--- Input Volt. 36V



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.

Ripple [mVp-p]

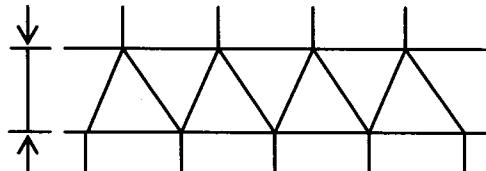


Fig.Complex Ripple Wave Form

Temperature 25°C
 Testing Circuitry Figure B

2. Values

Load Current [A]	Ripple Voltage [mV]	
	Input Volt. 18 [V]	Input Volt. 36 [V]
0.00	3	4
0.02	4	4
0.04	4	4
0.06	4	4
0.08	4	4
0.10	4	4
0.11	4	4
-	-	-
-	-	-
-	-	-
-	-	-

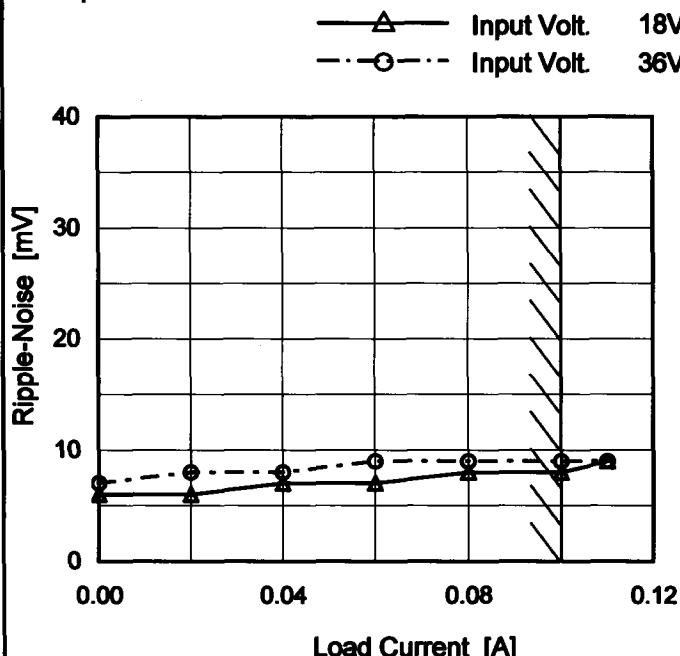
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Model SUS1R52415

Item Ripple-Noise

Object +15V0.1A

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.

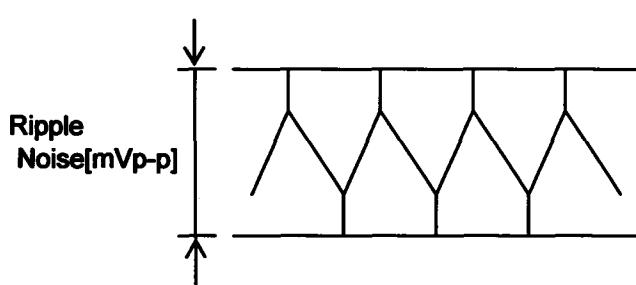


Fig.Complex Ripple Noise Wave Form

Temperature 25°C
Testing Circuitry Figure B

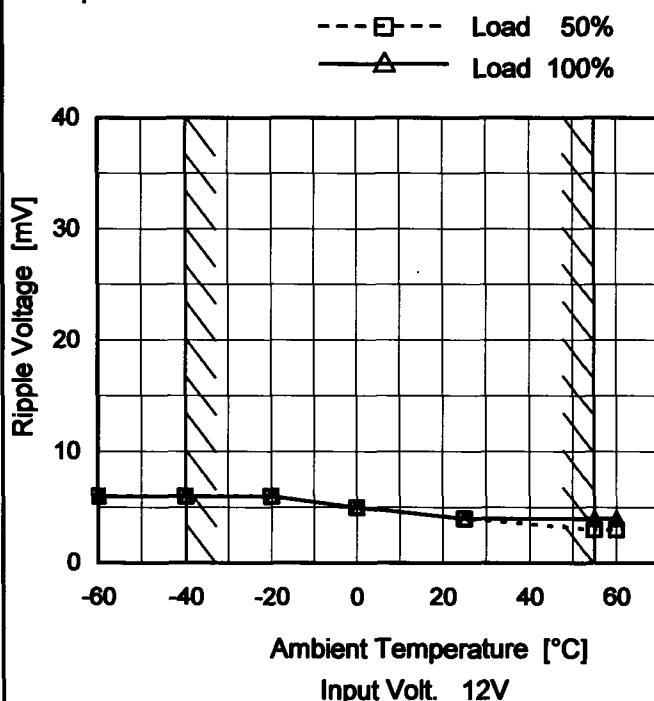
2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 18 [V]	Input Volt. 36 [V]
0.00	6	7
0.02	6	8
0.04	7	8
0.06	7	9
0.08	8	9
0.10	8	9
0.11	9	9
-	-	-
-	-	-
-	-	-
-	-	-

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Model	SUS1R52415
Item	Ripple Voltage (by Ambient Temp.)
Object	+15V0.1A

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	6	6
-40	6	6
-20	6	6
0	5	5
25	4	4
55	3	4
60	3	4
-	-	-
-	-	-
-	-	-
--	-	-



<p>Model</p> <p>Item</p> <p>Object</p>	SUS1R52415																																																					
	Ambient Temperature Drift																																																					
	+15V0.1A																																																					
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Ambient Temperature [°C]	Output Voltage [V]																																																					
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Note: Slanted line shows the range of the rated ambient temperature.																																																						



Model	SUS1R52415	Testing Circuitry Figure A
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 : 18 - 36V

Load Current : 0 - 0.1A

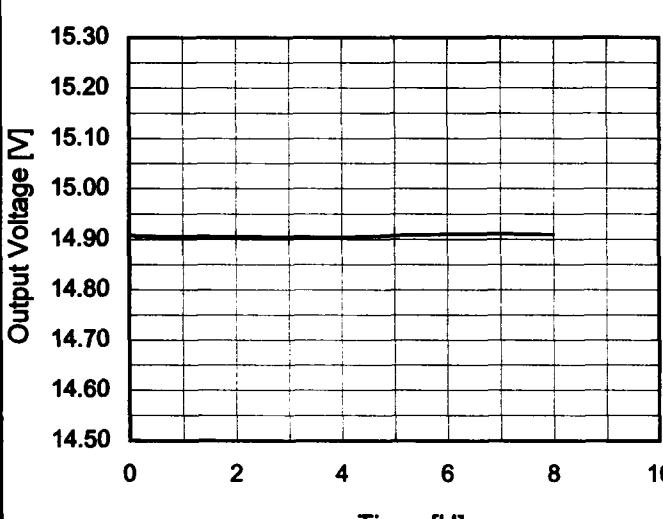
* Output Voltage Accuracy = $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

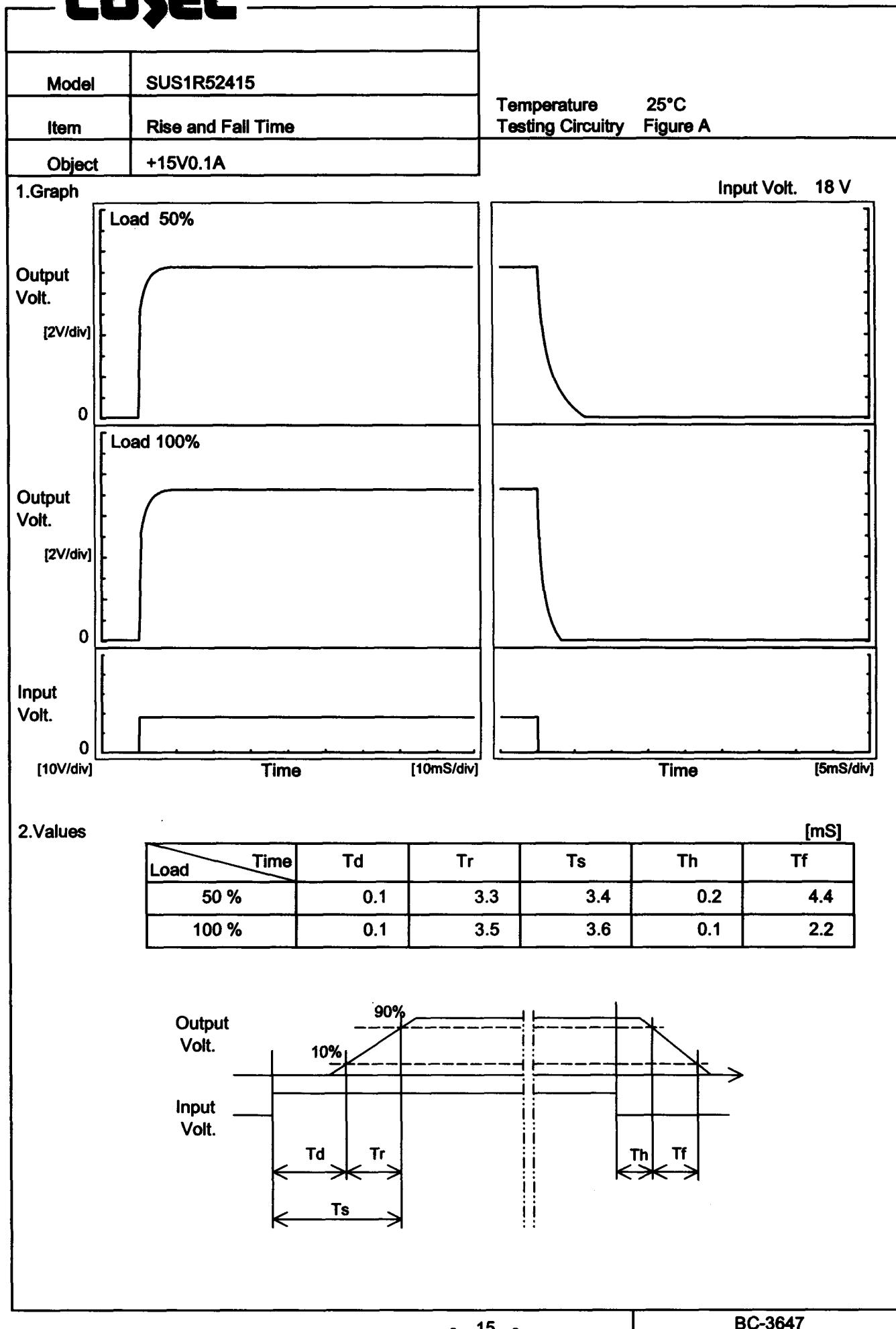
$$\text{* Output Voltage Accuracy (Ration)} = \frac{\text{Output Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$$

2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	-40	36	0	14.901	± 29	± 0.2
Minimum Voltage	55	36	0.1	14.844		

COSEL

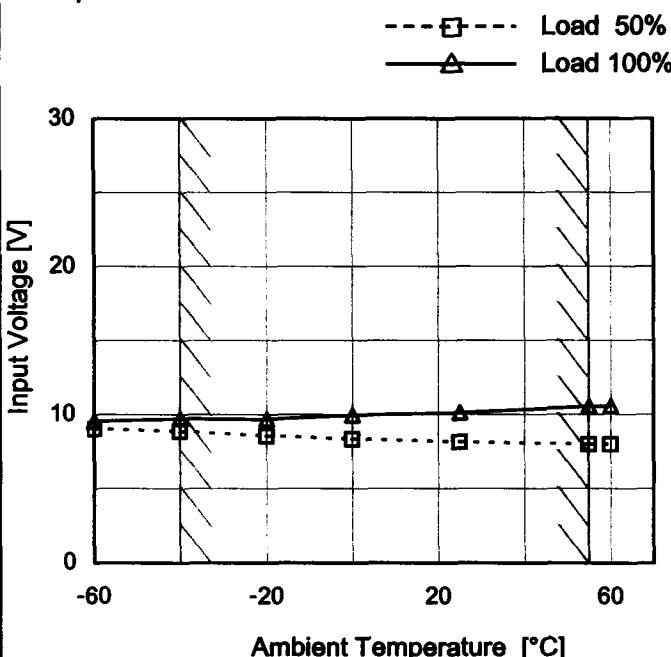
Model	SUS1R52415	Temperature	25°C																						
Item	Time Lapse Drift	Testing Circuitry	Figure A																						
Object	+15V0.1A																								
1.Graph			2.Values																						
 <p>Output Voltage [V]</p> <p>Time [H]</p> <p>Input Volt. 24V Load 100%</p>			<table border="1"> <thead> <tr> <th>Time since start [H]</th> <th>Output Voltage [V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>14.915</td></tr> <tr><td>0.5</td><td>14.907</td></tr> <tr><td>1.0</td><td>14.906</td></tr> <tr><td>2.0</td><td>14.906</td></tr> <tr><td>3.0</td><td>14.905</td></tr> <tr><td>4.0</td><td>14.905</td></tr> <tr><td>5.0</td><td>14.908</td></tr> <tr><td>6.0</td><td>14.911</td></tr> <tr><td>7.0</td><td>14.911</td></tr> <tr><td>8.0</td><td>14.910</td></tr> </tbody> </table>	Time since start [H]	Output Voltage [V]	0.0	14.915	0.5	14.907	1.0	14.906	2.0	14.906	3.0	14.905	4.0	14.905	5.0	14.908	6.0	14.911	7.0	14.911	8.0	14.910
Time since start [H]	Output Voltage [V]																								
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6.0	14.911																								
7.0	14.911																								
8.0	14.910																								

COSEL

COSEL

Model	SUS1R52415
Item	Minimum Input Voltage for Regulated Output Voltage
Object	+15V0.1A

1. Graph



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

Testing Circuitry Figure A

2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-60	9.1	9.6
-40	8.9	9.8
-20	8.6	9.7
0	8.4	10.0
25	8.2	10.2
55	8.0	10.6
60	8.0	10.6
-	-	-
-	-	-
-	-	-
-	-	-

COSEL

Model	SUS1R52415	Temperature	25°C																																																						
Item	Overcurrent Protection	Testing Circuitry	Figure A																																																						
Object	+15V0.1A																																																								
1.Graph	<p>Input Volt. 18V Input Volt. 24V Input Volt. 36V</p> <p>The graph plots Output Voltage [V] on the Y-axis (0 to 20) against Load Current [A] on the X-axis (0.0 to 0.4). Three curves are shown for different input voltages: 18V (top), 24V (middle), and 36V (bottom). All curves show a sharp drop in output voltage as load current increases beyond a certain point. A hatched rectangular area highlights the region where the output voltage is between approximately 12V and 15V, and the load current is between 0.1A and 0.2A.</p>	2.Values																																																							
<table border="1"> <thead> <tr> <th rowspan="2">Output Voltage [V]</th> <th colspan="3">Load Current [A]</th> </tr> <tr> <th>Input Volt. 18[V]</th> <th>Input Volt. 24[V]</th> <th>Input Volt. 36[V]</th> </tr> </thead> <tbody> <tr><td>15.0</td><td>0.10</td><td>0.10</td><td>0.10</td></tr> <tr><td>14.3</td><td>0.18</td><td>0.17</td><td>0.16</td></tr> <tr><td>13.5</td><td>0.18</td><td>0.18</td><td>0.16</td></tr> <tr><td>12.0</td><td>0.19</td><td>0.19</td><td>0.17</td></tr> <tr><td>10.5</td><td>0.21</td><td>0.20</td><td>0.18</td></tr> <tr><td>9.0</td><td>0.22</td><td>0.21</td><td>0.19</td></tr> <tr><td>7.5</td><td>0.24</td><td>0.22</td><td>0.20</td></tr> <tr><td>6.0</td><td>0.25</td><td>0.23</td><td>0.21</td></tr> <tr><td>4.5</td><td>0.26</td><td>0.24</td><td>0.22</td></tr> <tr><td>3.0</td><td>0.27</td><td>0.24</td><td>0.23</td></tr> <tr><td>1.5</td><td>0.26</td><td>0.24</td><td>0.23</td></tr> <tr><td>0.0</td><td>0.42</td><td>0.35</td><td>0.35</td></tr> </tbody> </table>			Output Voltage [V]	Load Current [A]			Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]	15.0	0.10	0.10	0.10	14.3	0.18	0.17	0.16	13.5	0.18	0.18	0.16	12.0	0.19	0.19	0.17	10.5	0.21	0.20	0.18	9.0	0.22	0.21	0.19	7.5	0.24	0.22	0.20	6.0	0.25	0.23	0.21	4.5	0.26	0.24	0.22	3.0	0.27	0.24	0.23	1.5	0.26	0.24	0.23	0.0	0.42	0.35	0.35
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Note: Slanted line shows the range of the rated load current.

COSEL

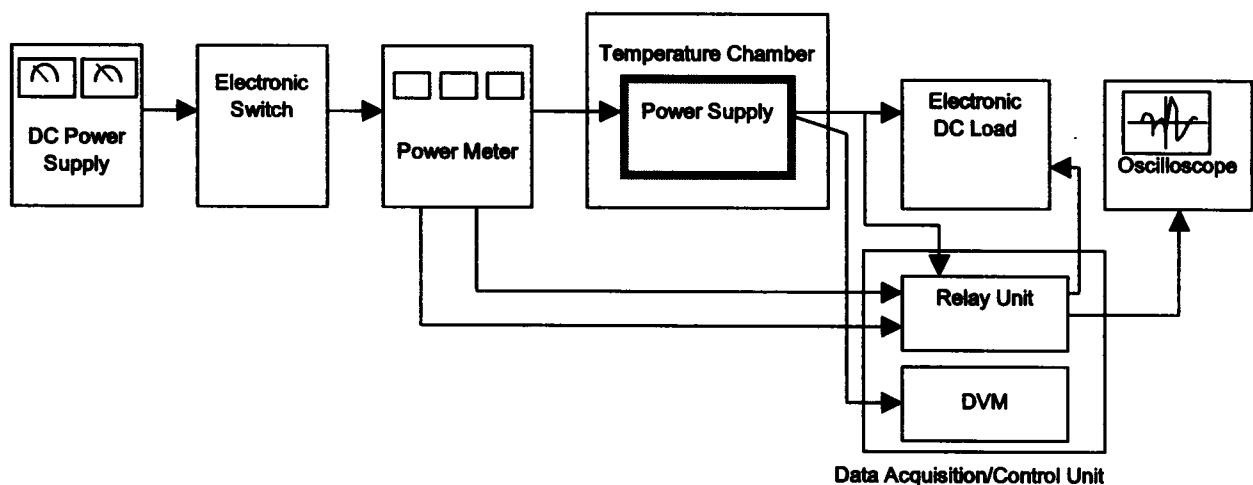


Figure A

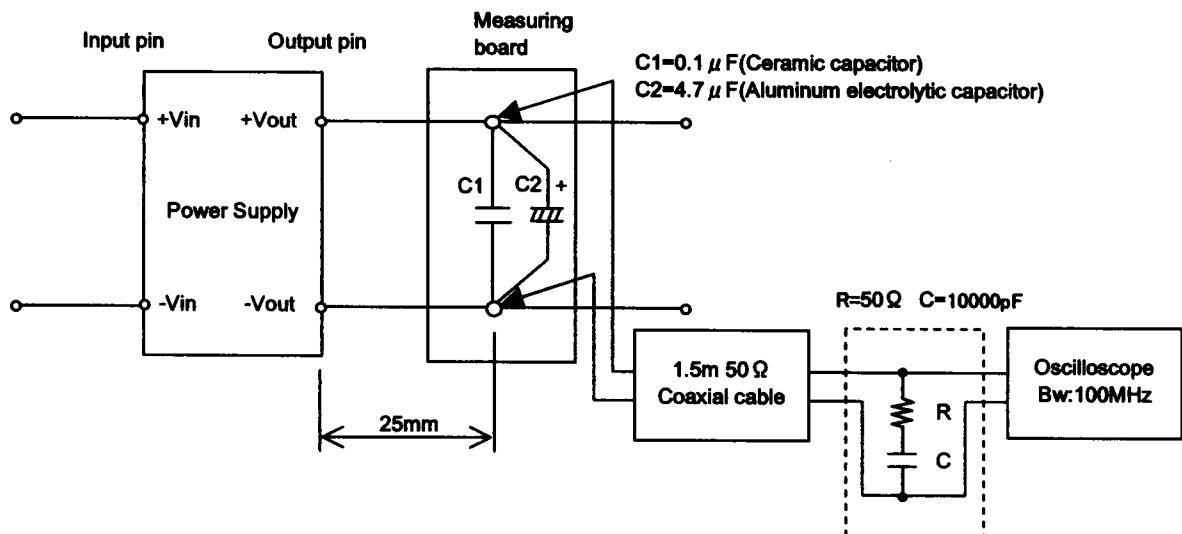


Figure B (Ripple and Ripple noise Characteristic)