

# TEST DATA OF SUW1R50515

Regulated DC Power Supply  
Sep 14, 2004

Approved by : Tetsuo Sugimori  
Tetsuo Sugimori Design Manager

Prepared by : Masahiro Shima  
Masahiro Shima Design Engineer

**COSEL CO.,LTD.**

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Model	SUW1R50515																																																																									
Item	Input Current (by Input Voltage)	Temperature	25°C																																																																							
Object		Testing Circuitry	Figure A																																																																							
1.Graph		2.Values																																																																								
<div><div><div>—△—</div><div>Load 100%</div></div><div><div>---□---</div><div>Load 50%</div></div><div><div>---○---</div><div>Load 0%</div></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="3">Input Current [A]</th></tr><tr><th>Load 0%</th><th>Load 50%</th><th>Load 100%</th></tr><tr><td>0</td><td>0.000</td><td>0.000</td><td>0.000</td></tr><tr><td>1.7</td><td>0.000</td><td>0.000</td><td>0.000</td></tr><tr><td>2.0</td><td>0.000</td><td>0.000</td><td>0.000</td></tr><tr><td>2.3</td><td>0.098</td><td>0.779</td><td>0.751</td></tr><tr><td>3.0</td><td>0.085</td><td>0.419</td><td>0.772</td></tr><tr><td>3.2</td><td>0.081</td><td>0.379</td><td>0.769</td></tr><tr><td>4.0</td><td>0.070</td><td>0.287</td><td>0.562</td></tr><tr><td>4.5</td><td>0.066</td><td>0.254</td><td>0.481</td></tr><tr><td>5.0</td><td>0.062</td><td>0.230</td><td>0.422</td></tr><tr><td>6.0</td><td>0.056</td><td>0.193</td><td>0.343</td></tr><tr><td>7.0</td><td>0.051</td><td>0.166</td><td>0.294</td></tr><tr><td>8.0</td><td>0.047</td><td>0.148</td><td>0.258</td></tr><tr><td>9.0</td><td>0.044</td><td>0.136</td><td>0.230</td></tr><tr><td>10.0</td><td>0.043</td><td>0.126</td><td>0.209</td></tr><tr><td>—</td><td>-</td><td>-</td><td>-</td></tr><tr><td>—</td><td>-</td><td>-</td><td>-</td></tr></table>		Input Voltage [V]	Input Current [A]			Load 0%	Load 50%	Load 100%	0	0.000	0.000	0.000	1.7	0.000	0.000	0.000	2.0	0.000	0.000	0.000	2.3	0.098	0.779	0.751	3.0	0.085	0.419	0.772	3.2	0.081	0.379	0.769	4.0	0.070	0.287	0.562	4.5	0.066	0.254	0.481	5.0	0.062	0.230	0.422	6.0	0.056	0.193	0.343	7.0	0.051	0.166	0.294	8.0	0.047	0.148	0.258	9.0	0.044	0.136	0.230	10.0	0.043	0.126	0.209	—	-	-	-	—	-	-	-
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**BC-3627**

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Model		SUW1R50515		Temperature 25°C																																	
Item		Efficiency (by Input Voltage)		Testing Circuitry Figure A																																	
Object																																					
1.Graph				2.Values																																	
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Input Voltage [V]	Efficiency [%]																																				
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<div><div><div><div><div></div><div></div></div><div>Input Volt.</div><div>4.5V</div></div><div><div><div></div><div></div></div><div>Input Volt.</div><div>5V</div></div><div><div><div></div><div></div></div><div>Input Volt.</div><div>9V</div></div></div><div><table><thead><tr><th>Load Ration [%]</th><th>Input Volt. 4.5[V]</th><th>Input Volt. 5[V]</th><th>Input Volt. 9[V]</th></tr></thead><tbody><tr><td>0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>20</td><td>49.9</td><td>48.8</td><td>42.2</td></tr><tr><td>40</td><td>62.9</td><td>62.5</td><td>57.0</td></tr><tr><td>60</td><td>68.7</td><td>68.8</td><td>64.8</td></tr><tr><td>80</td><td>71.4</td><td>71.8</td><td>69.7</td></tr><tr><td>100</td><td>72.2</td><td>73.4</td><td>72.7</td></tr><tr><td>110</td><td>72.4</td><td>73.8</td><td>74.0</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></div></div>		Load Ration [%]	Input Volt. 4.5[V]	Input Volt. 5[V]	Input Volt. 9[V]	0	-	-	-	20	49.9	48.8	42.2	40	62.9	62.5	57.0	60	68.7	68.8	64.8	80	71.4	71.8	69.7	100	72.2	73.4	72.7	110	72.4	73.8	74.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
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Input Volt.

4.5V

Input Volt.

5V

Input Volt.

9V

Load Ration [%]	Input Volt. 4.5[V]	Input Volt. 5[V]	Input Volt. 9[V]
0	-	-	-
20	49.9	48.8	42.2
40	62.9	62.5	57.0
60	68.7	68.8	64.8
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100	72.2	73.4	72.7
110	72.4	73.8	74.0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Input Volt.

4.5V

Input Volt.

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Input Volt.

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-	-	-	-
-	-	-	-
-	-	-	-
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-	-	-	-

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-	-	-	-
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4.5V

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Input Volt.

4.5V

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5V

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9V

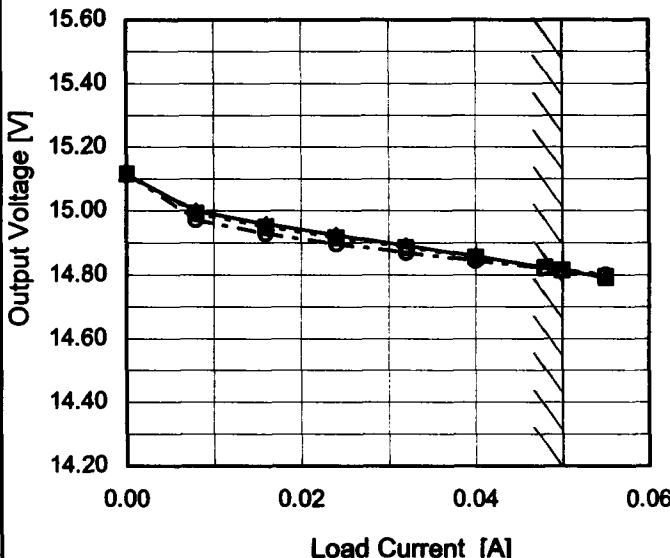
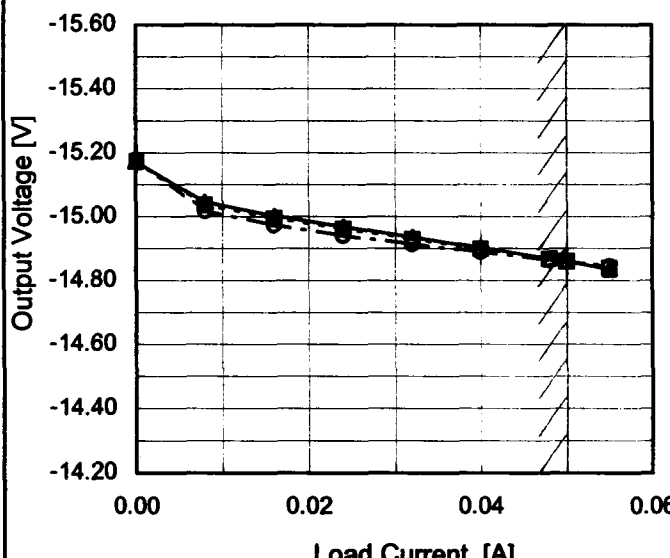
Load Ration [%]	Input Volt. 4.5[V]	Input Volt. 5[V
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# COSEL

Model		SUW1R50515																																																				
Item		Load Regulation																																																				
Object		+15V0.05A																																																				
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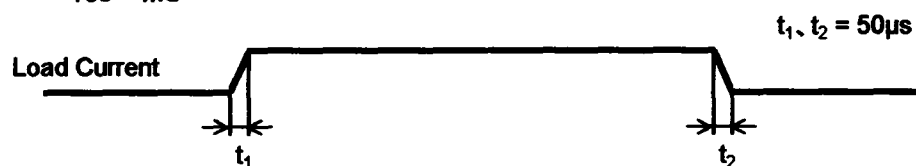
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BC-3627

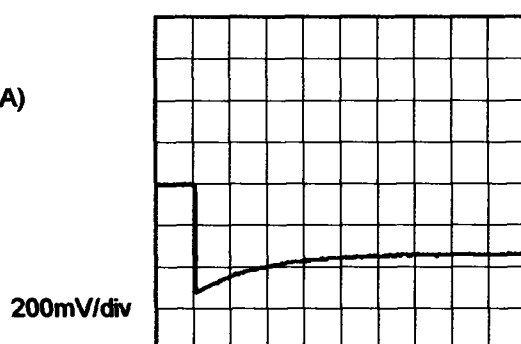
# COSEL

Model	SUW1R50515	Temperature	25°C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	+15V0.05A		

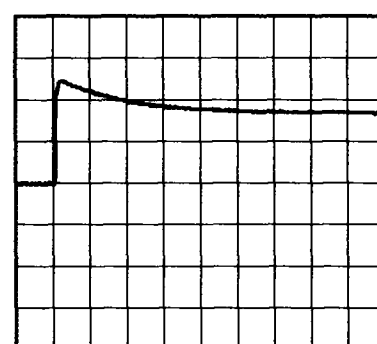
Input Volt. 5 V  
Cycle 100 mS



Min. Load (0A)  $\longleftrightarrow$   
Load 100% (0.05A)

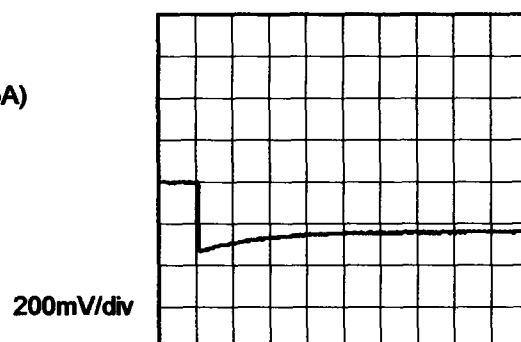


2ms/div

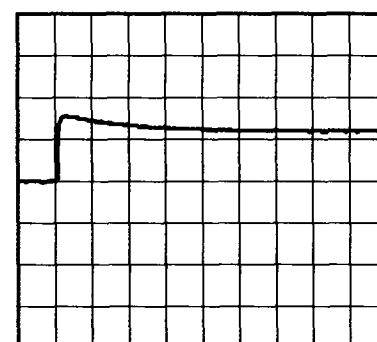


2ms/div

Min. Load (0A)  $\longleftrightarrow$   
Load 50% (0.025A)

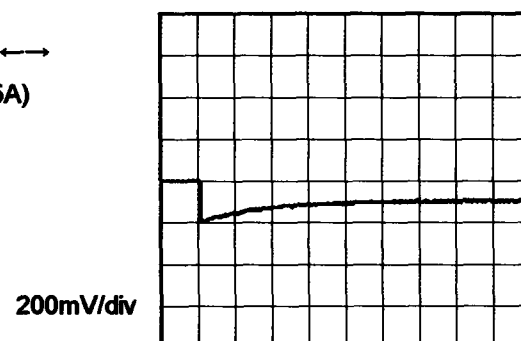


2ms/div

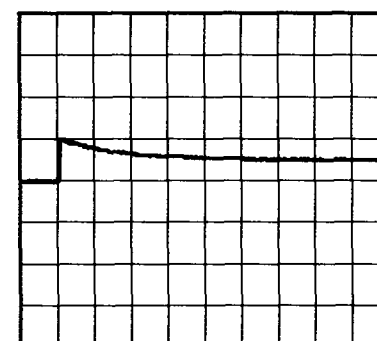


2ms/div

Load 50% (0.025A)  $\longleftrightarrow$   
Load 100% (0.05A)



2ms/div

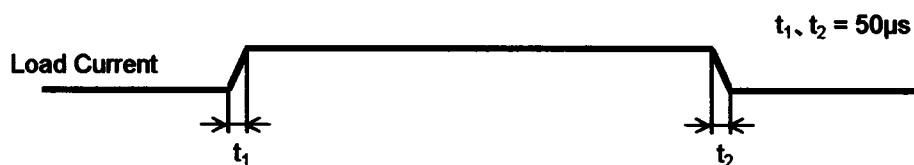


2ms/div

# COSEL

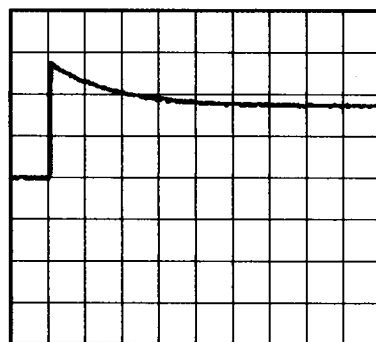
Model	SUW1R50515	Temperature	25°C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	-15V0.05A		

Input Volt. 5 V  
Cycle 100 mS

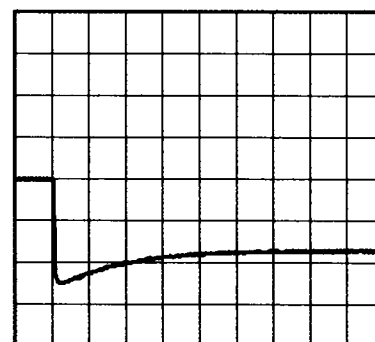


Min. Load (0A)  $\longleftrightarrow$   
Load 100% (0.05A)

200mV/div



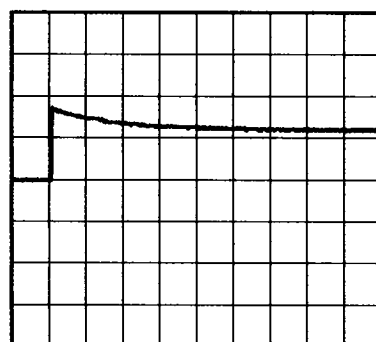
2ms/div



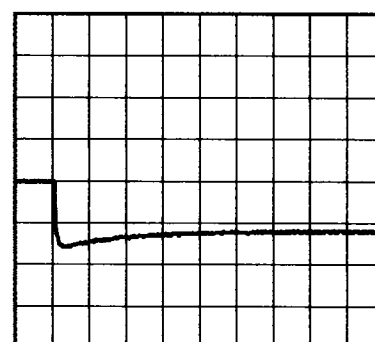
2ms/div

Min. Load (0A)  $\longleftrightarrow$   
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200mV/div



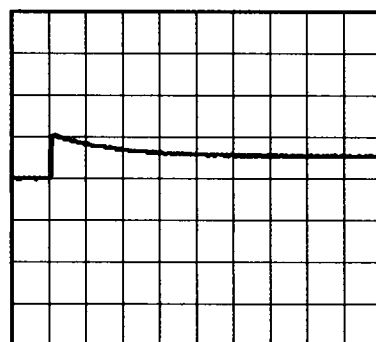
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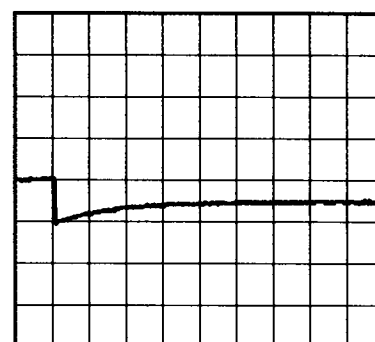
2ms/div

Load 50% (0.025A)  $\longleftrightarrow$   
Load 100% (0.05A)

200mV/div



2ms/div



2ms/div

# COSEL

Model		SUW1R50515	
Item		Ripple Voltage (by Load Current)	
Object		+15V0.05A	
1.Graph		2.Values	

<

# COSEL

Model

SUW1R50515

Item

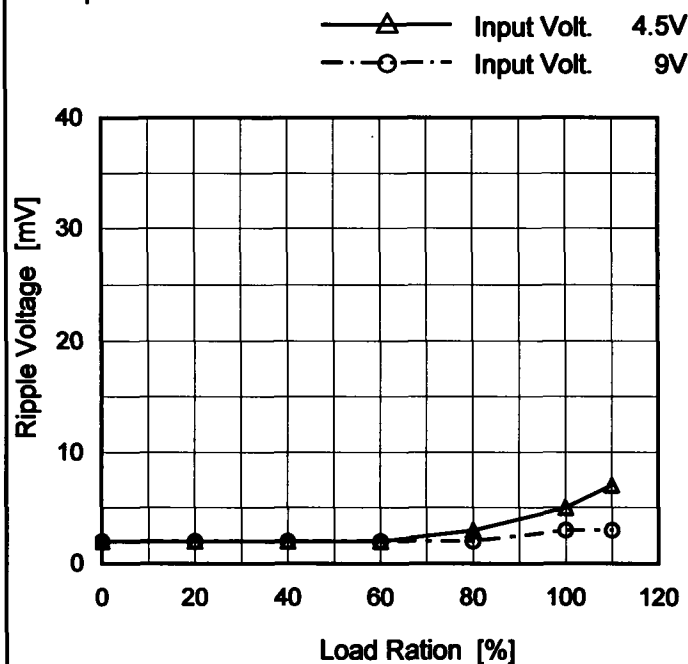
Ripple Voltage (by Load Current)

Object

-15V0.05A

Temperature  
Testing Circuitry25°C  
Figure B

## 1. Graph



Measured by 100 MHz Oscilloscope.  
Ripple Voltage is shown as p-p in the figure below.

Ripple [mVp-p]

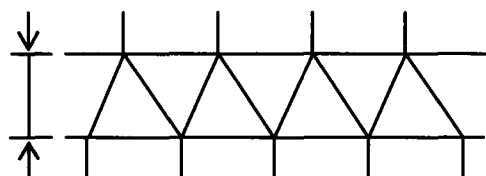
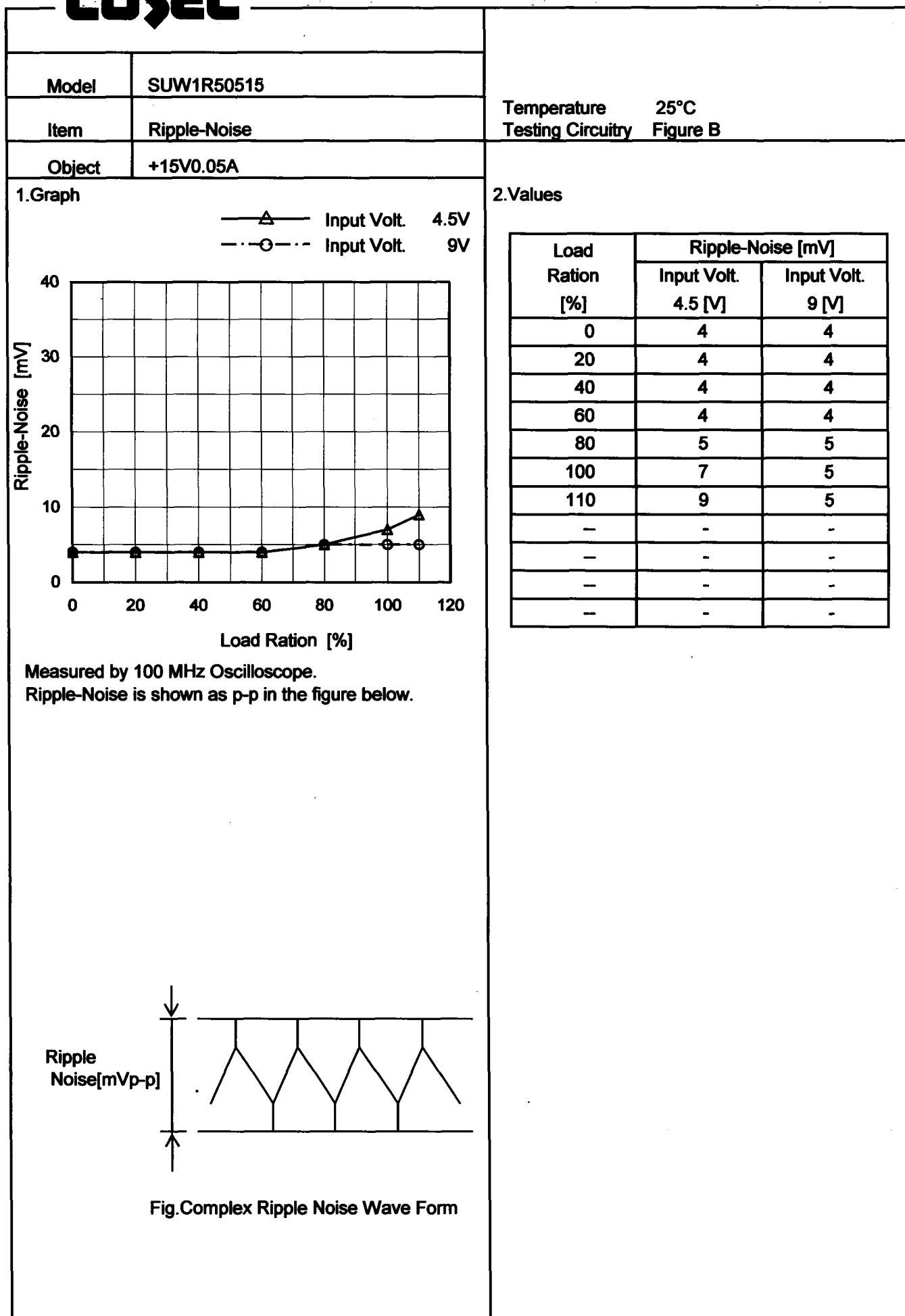
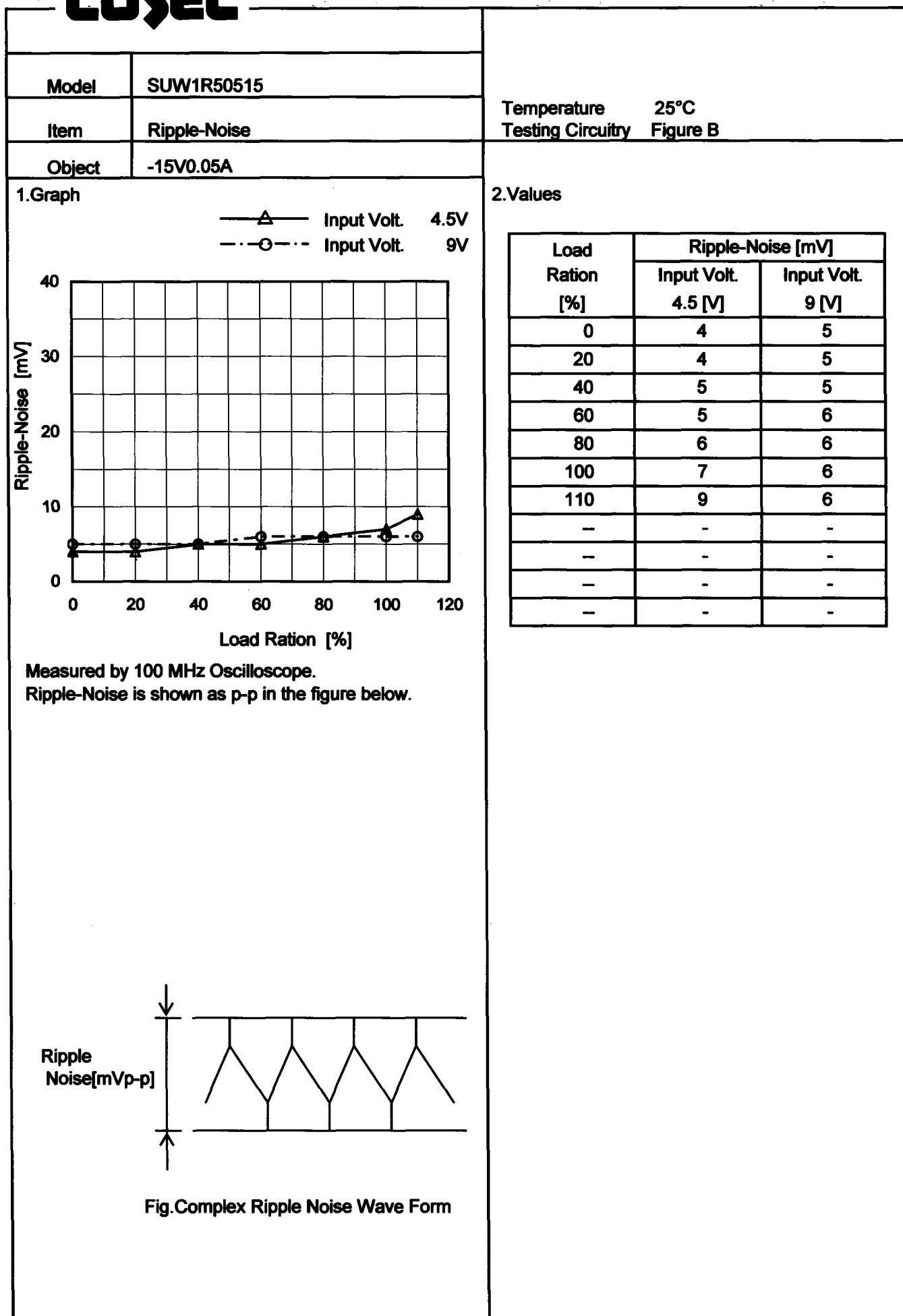


Fig. Complex Ripple Wave Form

## 2. Values

Load Ration [%]	Ripple Voltage [mV]	
	Input Volt. 4.5 [V]	Input Volt. 9 [V]
0	2	2
20	2	2
40	2	2
60	2	2
80	3	2
100	5	3
110	7	3
-	-	-
-	-	-
-	-	-
-	-	-

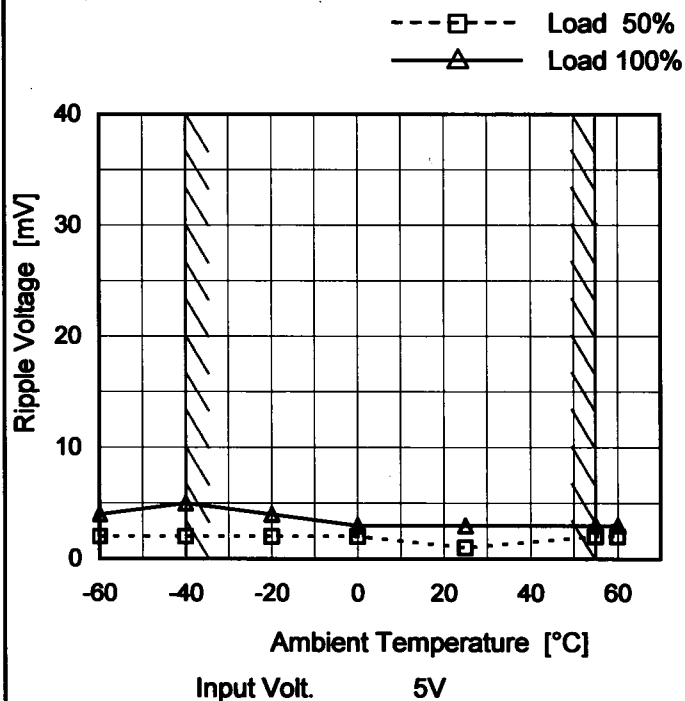
**COSEL**

**COSEL**

# COSEL

Model	SUW1R50515
Item	Ripple Voltage (by Ambient Temp.)
Object	+15V0.05A

## 1. Graph



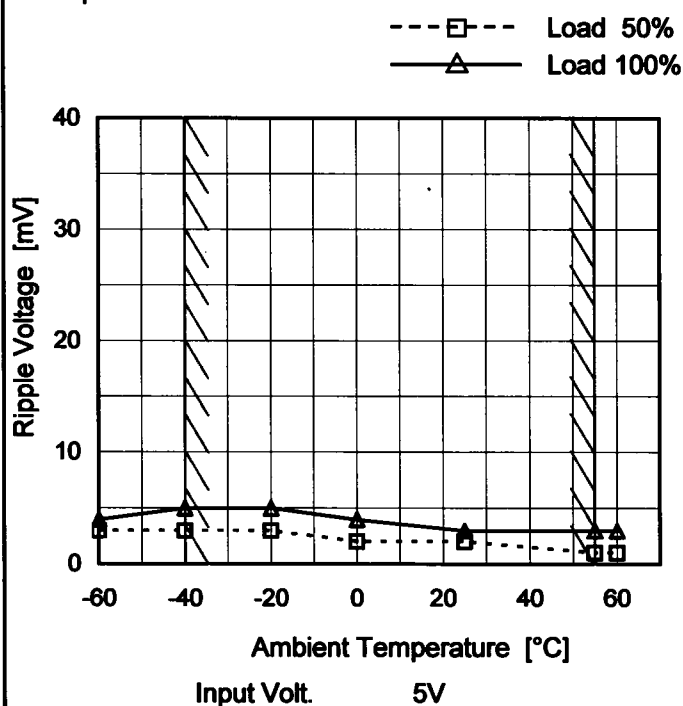
## Testing Circuitry Figure B

## 2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Load 50%	Load 100%
-60	2	4
-40	2	5
-20	2	4
0	2	3
25	1	3
55	2	3
60	2	3
—	—	—
—	—	—
—	—	—
—	—	—

Object	-15V0.05A
--------	-----------

## 1. Graph



## 2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Load 50%	Load 100%
-60	3	4
-40	3	5
-20	3	5
0	2	4
25	2	3
55	1	3
60	1	3
—	—	—
—	—	—
—	—	—
—	—	—

Measured by 100 MHz Oscilloscope.

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



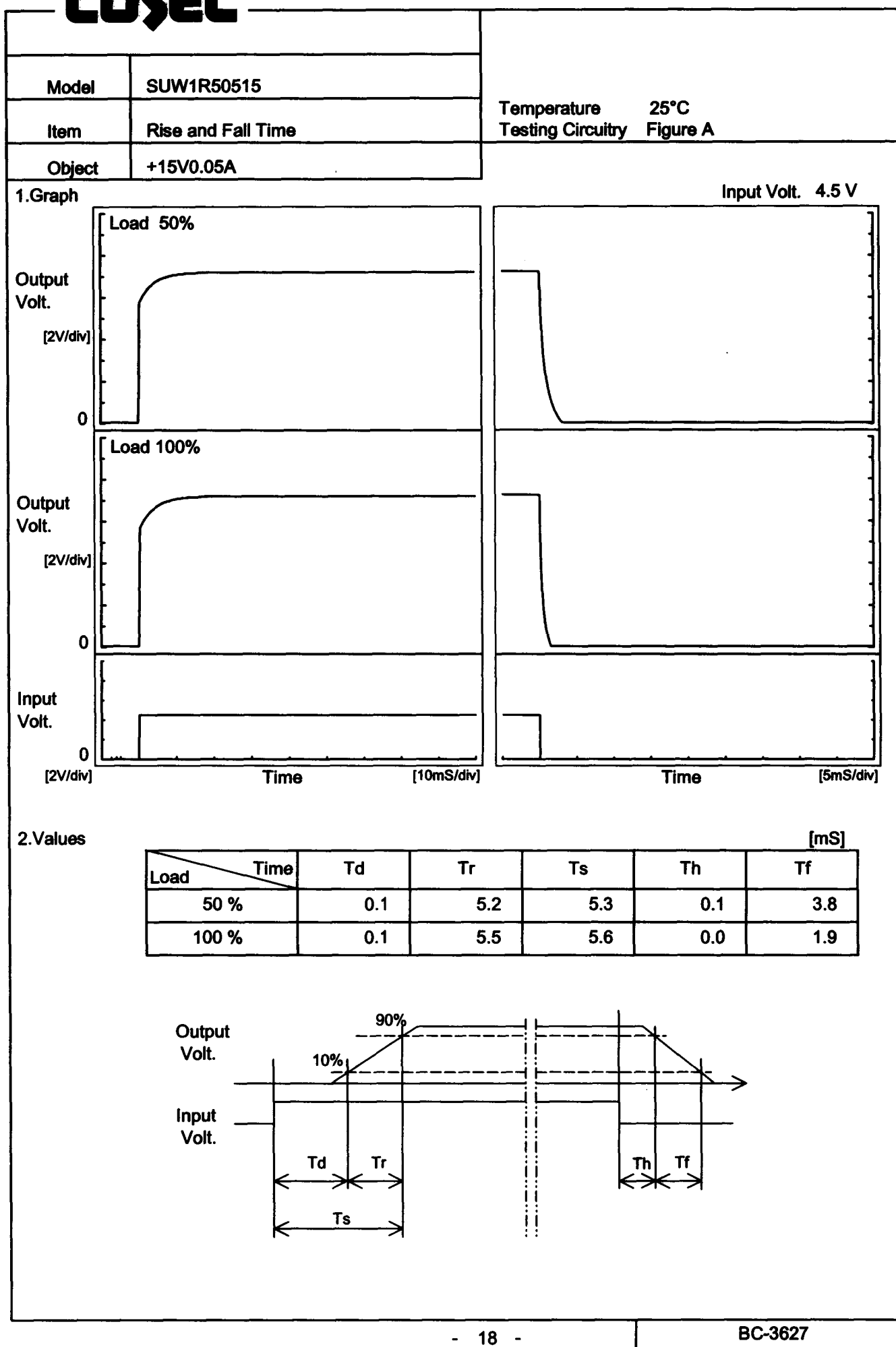
# COSEL

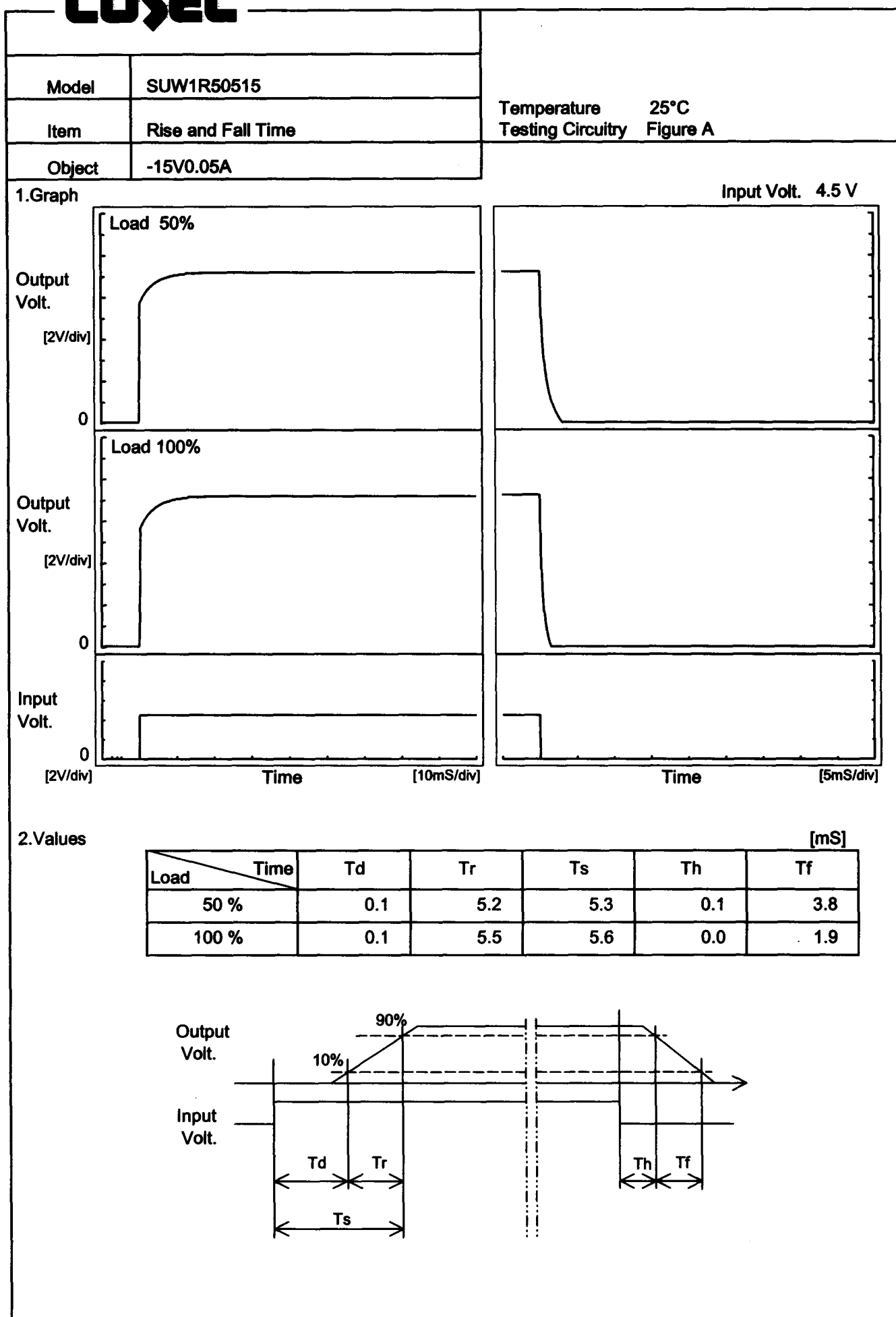
Model	SUW1R50515																																																					
Item	Ambient Temperature Drift	Testing Circuitry Figure A																																																				
Object	+15V0.05A																																																					
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# COSEL

Model	SUW1R50515		
Item	Time Lapse Drift	Temperature	25°C
Object	+15V0.05A	Testing Circuitry	Figure A
1.Graph		2.Values	
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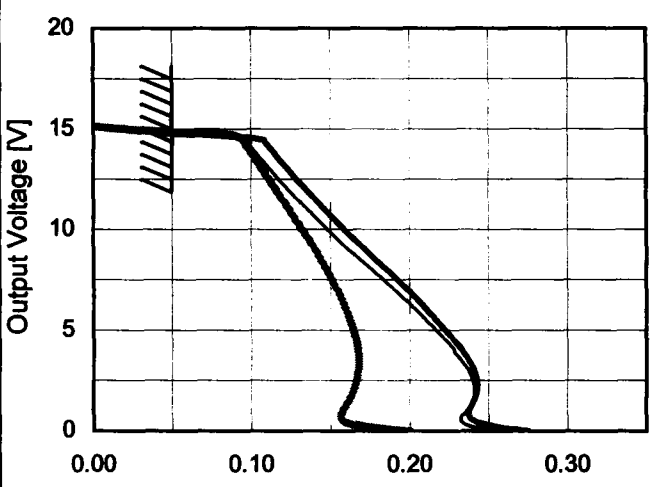
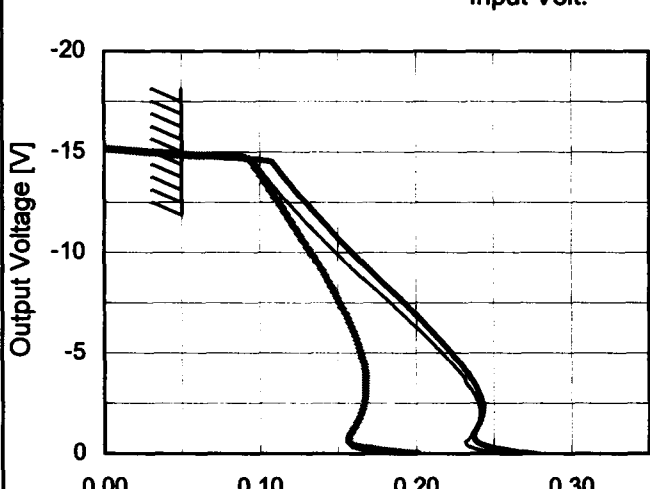
**COSEL**

**COSEL**

# COSEL

Model		SUW1R50515	
Item		Minimum Input Voltage for Regulated Output Voltage	
Object		+15V0.05A	
1.Graph			
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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> 		<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>0.05</td><td>0.05</td><td>0.05</td></tr><tr><td>14.3</td><td>0.10</td><td>0.11</td><td>0.10</td></tr><tr><td>13.5</td><td>0.11</td><td>0.12</td><td>0.10</td></tr><tr><td>12.0</td><td>0.12</td><td>0.13</td><td>0.12</td></tr><tr><td>10.5</td><td>0.14</td><td>0.15</td><td>0.13</td></tr><tr><td>9.0</td><td>0.16</td><td>0.17</td><td>0.14</td></tr><tr><td>7.5</td><td>0.18</td><td>0.19</td><td>0.15</td></tr><tr><td>6.0</td><td>0.20</td><td>0.21</td><td>0.16</td></tr><tr><td>4.5</td><td>0.22</td><td>0.23</td><td>0.17</td></tr><tr><td>3.0</td><td>0.24</td><td>0.24</td><td>0.17</td></tr><tr><td>1.5</td><td>0.24</td><td>0.24</td><td>0.16</td></tr><tr><td>0.0</td><td>0.25</td><td>0.28</td><td>0.20</td></tr></table>		Output Voltage [V]	Load Current [A]			Input Volt. 4.5[V]	Input Volt. 5[V]	Input Volt. 9[V]	15.0	0.05	0.05	0.05	14.3	0.10	0.11	0.10	13.5	0.11	0.12	0.10	12.0	0.12	0.13	0.12	10.5	0.14	0.15	0.13	9.0	0.16	0.17	0.14	7.5	0.18	0.19	0.15	6.0	0.20	0.21	0.16	4.5	0.22	0.23	0.17	3.0	0.24	0.24	0.17	1.5	0.24	0.24	0.16	0.0	0.25	0.28	0.20
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Note: Slanted line shows the range of the rated load current.																																																										

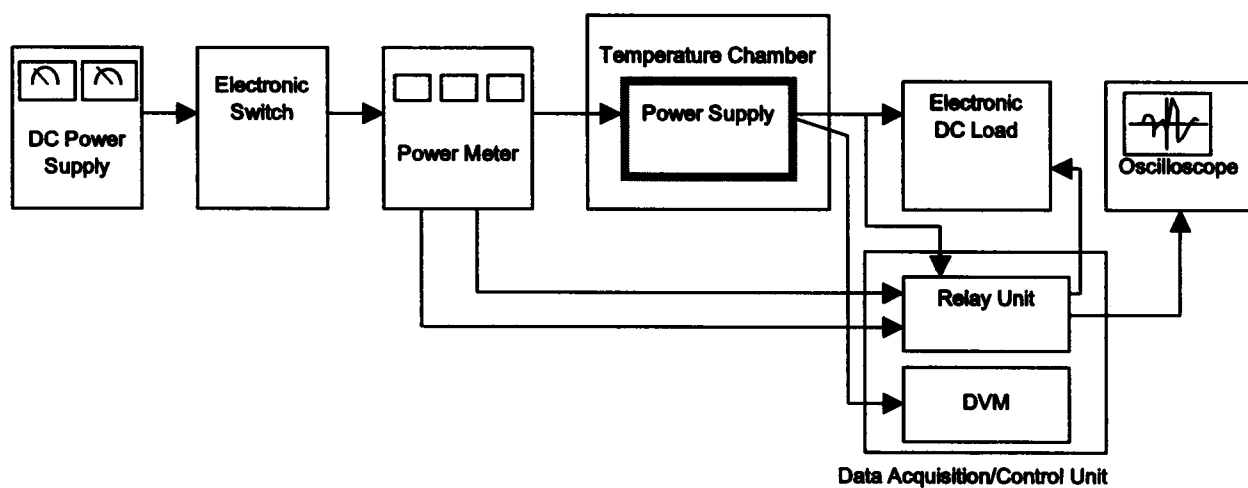


Figure A

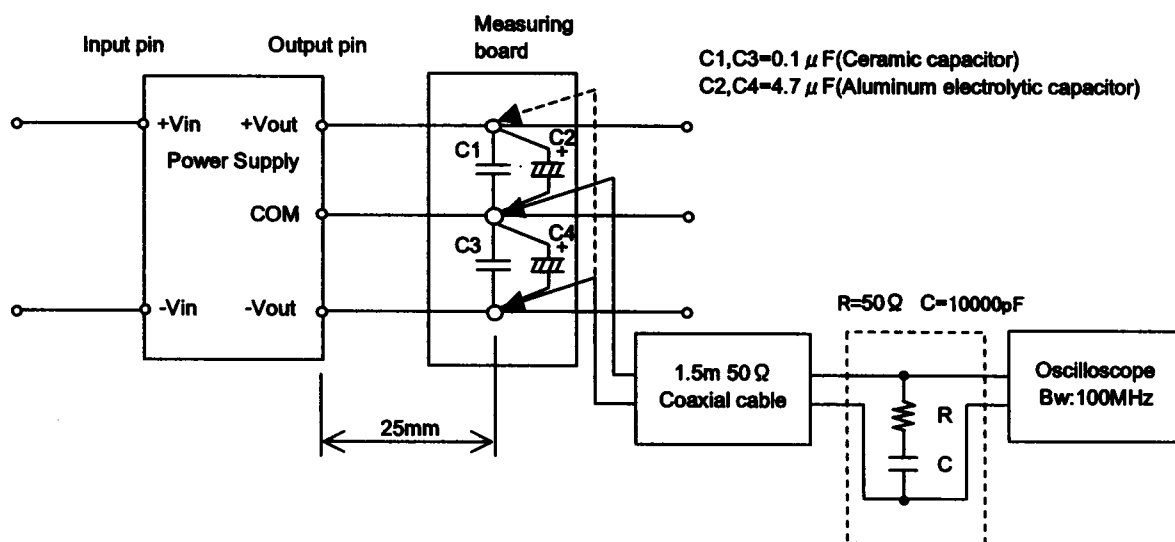


Figure B (Ripple and Ripple noise Characteristic)