

TEST DATA OF SUCS1R5483R3

Regulated DC Power Supply
Sep 28, 2004

Approved by : Tetsuo Sugimori
Tetsuo Sugimori Design Manager

Prepared by : Masahiro Shima
Masahiro Shima Design Engineer

COSEL CO.,LTD.

CONTENTS

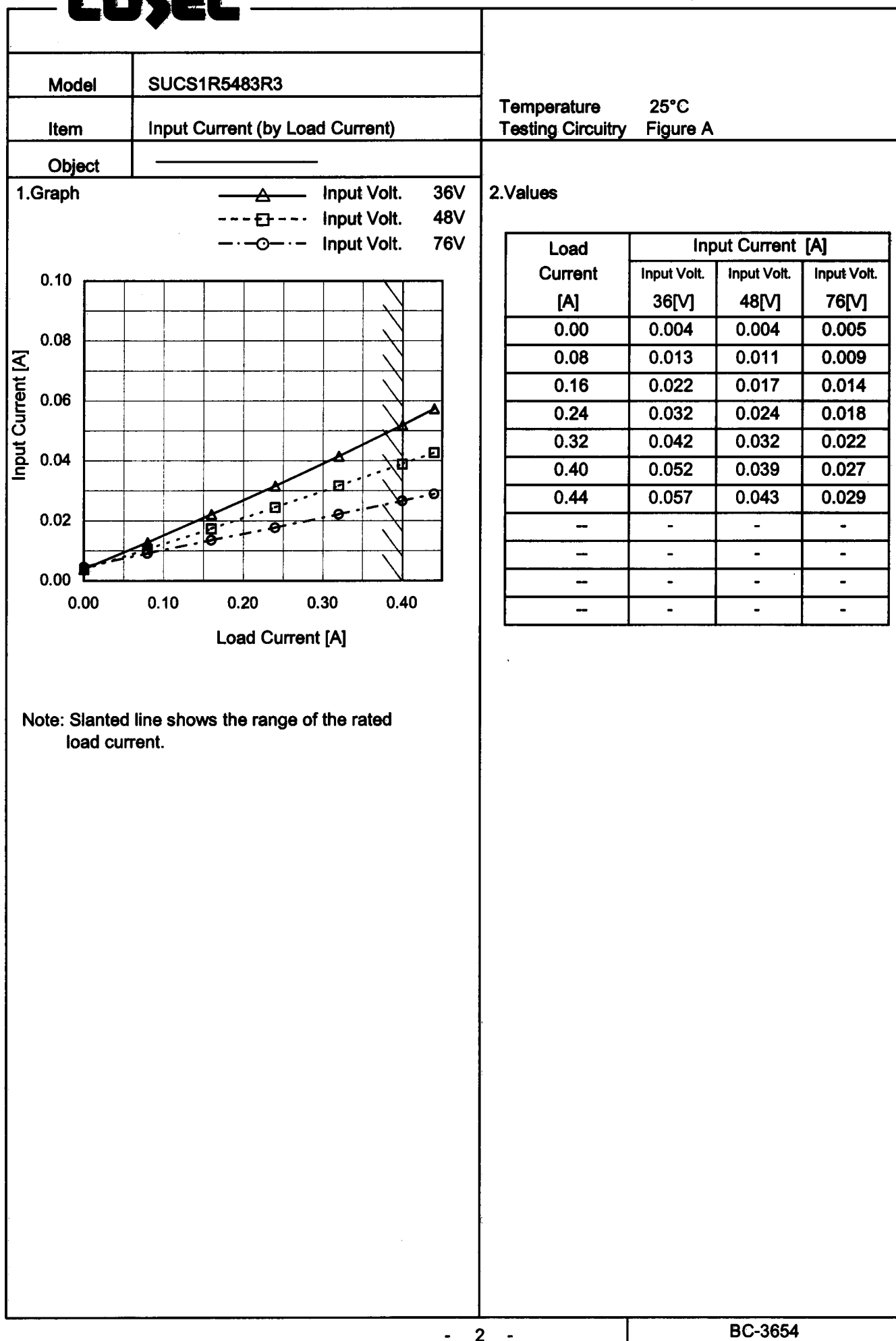
1.Input Current (by Input Voltage)	1
2.Input Current (by Load Current)	2
3.Input Power (by Load Current)	3
4.Efficiency (by Input Voltage)	4
5.Efficiency (by Load Current)	5
6.Line Regulation	6
7.Load Regulation	7
8.Dynamic Load Response	8
9.Ripple Voltage (by Load Current)	9
10.Ripple-Noise	10
11.Ripple 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)

COSEL

Model		SUCS1R5483R3																																																																								
Item		Input Current (by Input Voltage)																																																																								
Object																																																																										
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> <div><p>Note: Slanted line shows the range of the rated input voltage.</p></div>		<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>8.0</td><td>0.000</td><td>0.000</td><td>0.000</td></tr><tr><td>16.0</td><td>0.000</td><td>0.000</td><td>0.000</td></tr><tr><td>21.6</td><td>0.005</td><td>0.049</td><td>0.097</td></tr><tr><td>24.0</td><td>0.005</td><td>0.040</td><td>0.084</td></tr><tr><td>33.0</td><td>0.004</td><td>0.029</td><td>0.057</td></tr><tr><td>36.0</td><td>0.004</td><td>0.027</td><td>0.052</td></tr><tr><td>40.0</td><td>0.004</td><td>0.024</td><td>0.046</td></tr><tr><td>48.0</td><td>0.004</td><td>0.021</td><td>0.039</td></tr><tr><td>60.0</td><td>0.004</td><td>0.018</td><td>0.032</td></tr><tr><td>70.0</td><td>0.004</td><td>0.016</td><td>0.028</td></tr><tr><td>76.0</td><td>0.005</td><td>0.016</td><td>0.027</td></tr><tr><td>80.0</td><td>0.005</td><td>0.015</td><td>0.026</td></tr><tr><td>88.0</td><td>0.005</td><td>0.015</td><td>0.024</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	8.0	0.000	0.000	0.000	16.0	0.000	0.000	0.000	21.6	0.005	0.049	0.097	24.0	0.005	0.040	0.084	33.0	0.004	0.029	0.057	36.0	0.004	0.027	0.052	40.0	0.004	0.024	0.046	48.0	0.004	0.021	0.039	60.0	0.004	0.018	0.032	70.0	0.004	0.016	0.028	76.0	0.005	0.016	0.027	80.0	0.005	0.015	0.026	88.0	0.005	0.015	0.024	--	-	-	-	--	-	-	-
Input Voltage [V]	Input Current [A]																																																																									
	Load 0%	Load 50%	Load 100%																																																																							
0	0.000	0.000	0.000																																																																							
8.0	0.000	0.000	0.000																																																																							
16.0	0.000	0.000	0.000																																																																							
21.6	0.005	0.049	0.097																																																																							
24.0	0.005	0.040	0.084																																																																							
33.0	0.004	0.029	0.057																																																																							
36.0	0.004	0.027	0.052																																																																							
40.0	0.004	0.024	0.046																																																																							
48.0	0.004	0.021	0.039																																																																							
60.0	0.004	0.018	0.032																																																																							
70.0	0.004	0.016	0.028																																																																							
76.0	0.005	0.016	0.027																																																																							
80.0	0.005	0.015	0.026																																																																							
88.0	0.005	0.015	0.024																																																																							
--	-	-	-																																																																							
--	-	-	-																																																																							

COSEL



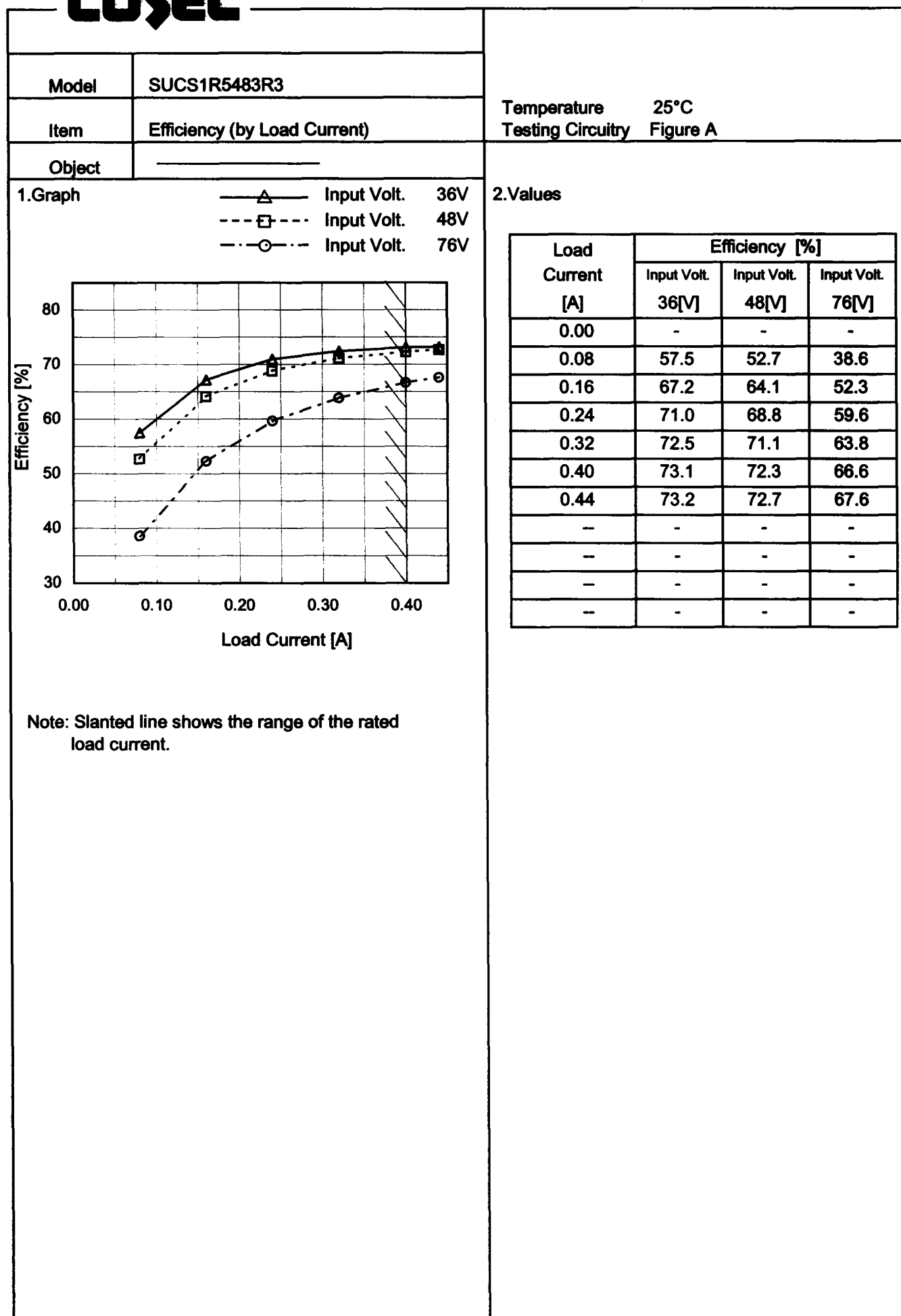
COSEL

Model		SUCS1R5483R3																																																				
Item		Input Power (by Load Current)																																																				
Object																																																						
1.Graph		2.Values																																																				
<div><div><div>—△—</div><div>Input Volt.</div><div>36V</div></div><div><div>---□---</div><div>Input Volt.</div><div>48V</div></div><div><div>---○---</div><div>Input Volt.</div><div>76V</div></div></div> <div><p>Input Power [W]</p><p>Load Current [A]</p><p>Note: Slanted line shows the range of the rated load current.</p></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Input Power [W]</th></tr><tr><th>Input Volt. 36[V]</th><th>Input Volt. 48[V]</th><th>Input Volt. 76[V]</th></tr><tr><td>0.00</td><td>0.14</td><td>0.18</td><td>0.34</td></tr><tr><td>0.08</td><td>0.46</td><td>0.50</td><td>0.69</td></tr><tr><td>0.16</td><td>0.79</td><td>0.83</td><td>1.02</td></tr><tr><td>0.24</td><td>1.12</td><td>1.16</td><td>1.34</td></tr><tr><td>0.32</td><td>1.46</td><td>1.49</td><td>1.66</td></tr><tr><td>0.40</td><td>1.81</td><td>1.84</td><td>1.99</td></tr><tr><td>0.44</td><td>1.99</td><td>2.01</td><td>2.16</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 Power [W]			Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]	0.00	0.14	0.18	0.34	0.08	0.46	0.50	0.69	0.16	0.79	0.83	1.02	0.24	1.12	1.16	1.34	0.32	1.46	1.49	1.66	0.40	1.81	1.84	1.99	0.44	1.99	2.01	2.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Load Current [A]	Input Power [W]																																																					
	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]																																																			
0.00	0.14	0.18	0.34																																																			
0.08	0.46	0.50	0.69																																																			
0.16	0.79	0.83	1.02																																																			
0.24	1.12	1.16	1.34																																																			
0.32	1.46	1.49	1.66																																																			
0.40	1.81	1.84	1.99																																																			
0.44	1.99	2.01	2.16																																																			
—	—	—	—																																																			
—	—	—	—																																																			
—	—	—	—																																																			
—	—	—	—																																																			

COSEL

Model		SUCS1R5483R3		Temperature 25°C																																	
Item		Efficiency (by Input Voltage)		Testing Circuitry Figure A																																	
Object																																					
1.Graph				2.Values																																	
<div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div>Load 50%</div><div>Load 100%</div></div> <table><thead><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Efficiency [%]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr></thead><tbody><tr><td>33</td><td>70.2</td><td>73.1</td></tr><tr><td>36</td><td>69.6</td><td>73.1</td></tr><tr><td>40</td><td>68.8</td><td>73.1</td></tr><tr><td>48</td><td>66.9</td><td>72.3</td></tr><tr><td>55</td><td>64.7</td><td>71.3</td></tr><tr><td>60</td><td>62.9</td><td>70.4</td></tr><tr><td>70</td><td>59.0</td><td>68.2</td></tr><tr><td>76</td><td>56.5</td><td>66.6</td></tr><tr><td>80</td><td>54.8</td><td>65.6</td></tr></tbody></table> <p>Note: Slanted line shows the range of the rated input voltage.</p>				Input Voltage [V]	Efficiency [%]		Load 50%	Load 100%	33	70.2	73.1	36	69.6	73.1	40	68.8	73.1	48	66.9	72.3	55	64.7	71.3	60	62.9	70.4	70	59.0	68.2	76	56.5	66.6	80	54.8	65.6		
Input Voltage [V]	Efficiency [%]																																				
	Load 50%	Load 100%																																			
33	70.2	73.1																																			
36	69.6	73.1																																			
40	68.8	73.1																																			
48	66.9	72.3																																			
55	64.7	71.3																																			
60	62.9	70.4																																			
70	59.0	68.2																																			
76	56.5	66.6																																			
80	54.8	65.6																																			

COSEL



BC-3654

COSEL

Model		SUCS1R5483R3	
Item		Load Regulation	
Object		+3.3V0.4A	

1.Graph

—△—

Input Volt.

36V

---□---

Input Volt.

48V

---○---

Input Volt.

76V

Output Voltage [V]

Load Current [A]

2.Values

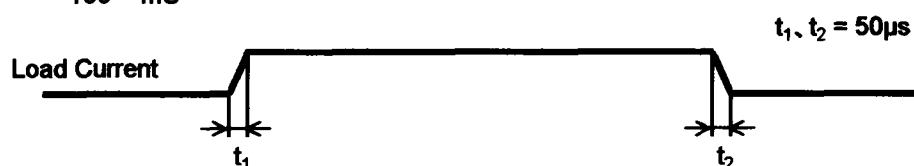
Load Current [A]	Output Voltage [V]		
	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]
0.00	3.326	3.326	3.327
0.08	3.326	3.326	3.326
0.16	3.325	3.325	3.325
0.24	3.325	3.325	3.325
0.32	3.324	3.324	3.324
0.40	3.323	3.323	3.323
0.44	3.322	3.323	3.323
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

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

COSEL

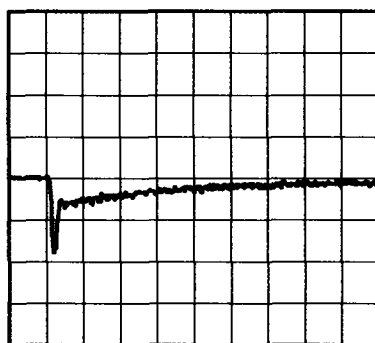
Model	SUCS1R5483R3	Temperature	25°C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	+3.3V0.4A		

Input Volt. 48 V
Cycle 100 mS

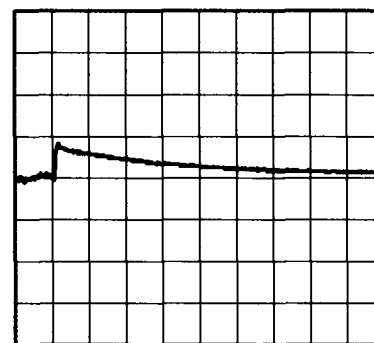


Min. Load (0A) \longleftrightarrow
Load 100% (0.4A)

100mV/div



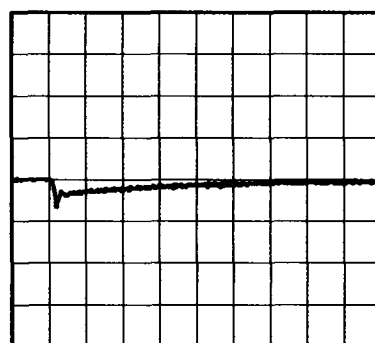
200µs/div



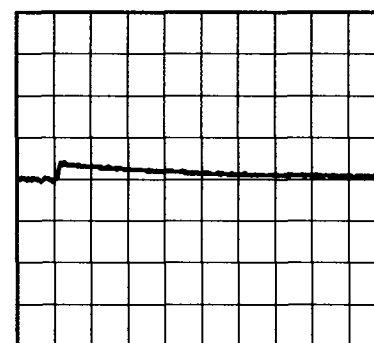
200µs/div

Min. Load (0A) \longleftrightarrow
Load 50% (0.2A)

100mV/div



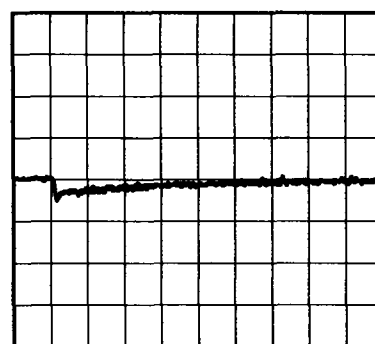
200µs/div



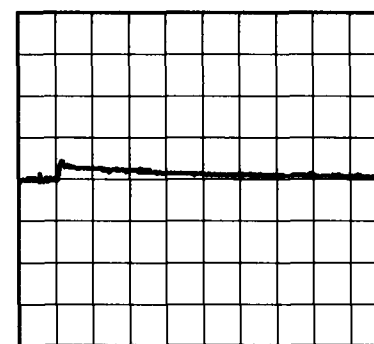
200µs/div

Load 50% (0.2A) \longleftrightarrow
Load 100% (0.4A)

100mV/div



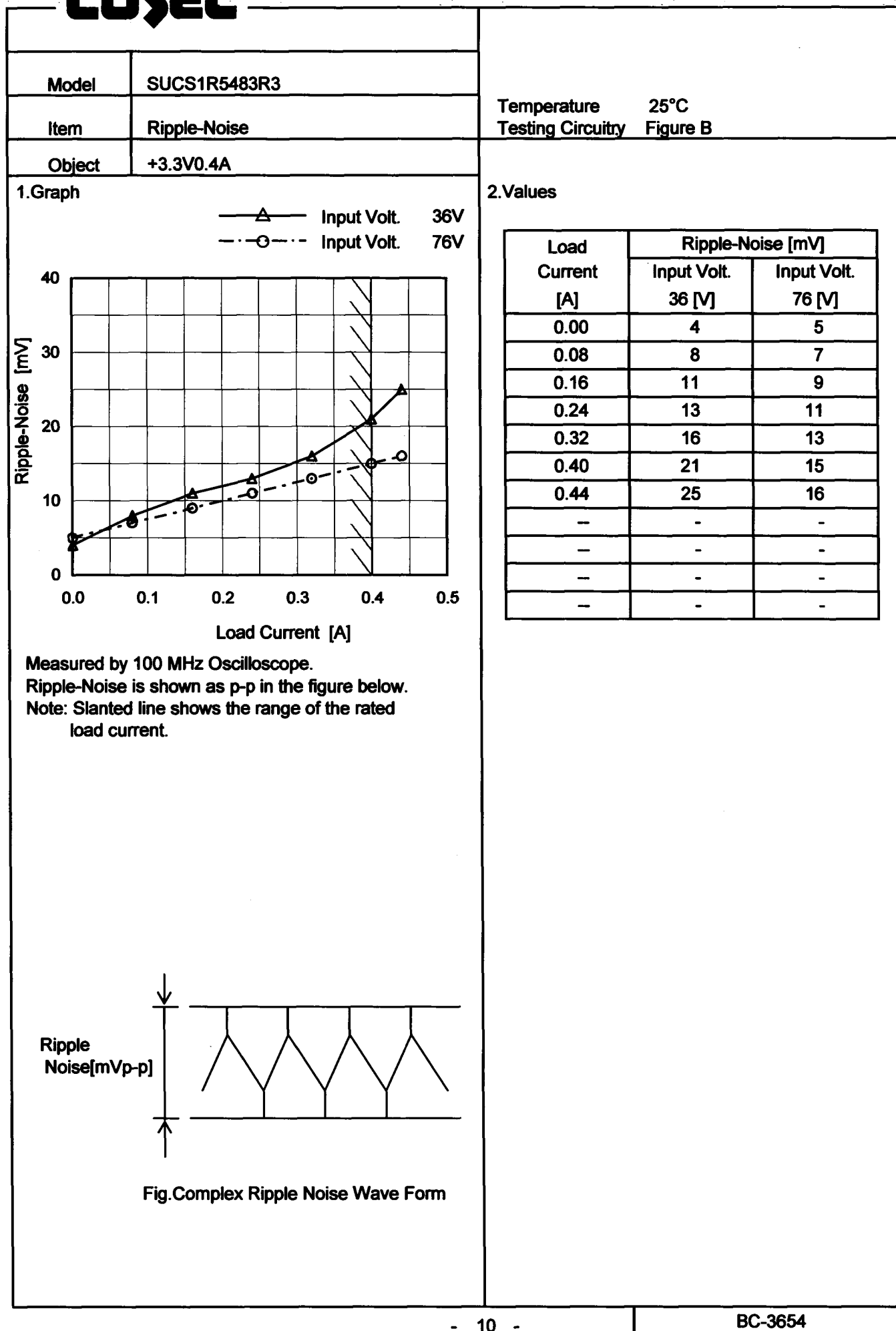
200µs/div

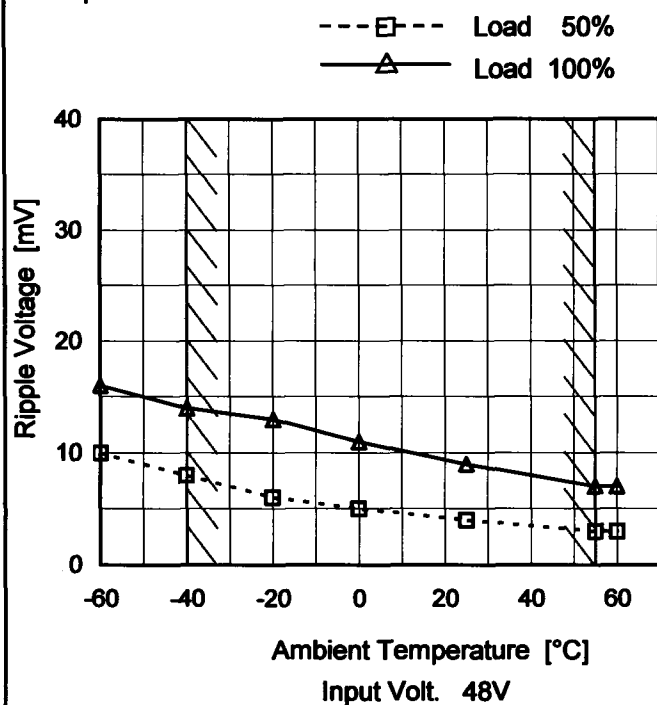


200µs/div

COSEL

Model		SUCS1R5483R3																																							
Item		Ripple Voltage (by Load Current)																																							
Object		+3.3V0.4A																																							
1.Graph		2.Values																																							
<div><div><div>—△— Input Volt. 36V</div><div>- - -○- - - Input Volt. 76V</div></div><div>Ripple Voltage [mV]</div><div>Load Current [A]</div></div> <div><p>Measured by 100 MHz Oscilloscope.</p><p>Ripple Voltage is shown as p-p in the figure below.</p><p>Note: Slanted line shows the range of the rated load current.</p></div> <div><div>Ripple [mVp-p]</div><div>Fig.Complex Ripple Wave Form</div></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Input Volt. 36 [V]</th><th>Input Volt. 76 [V]</th></tr><tr><td>0.00</td><td>2</td><td>3</td></tr><tr><td>0.08</td><td>3</td><td>3</td></tr><tr><td>0.16</td><td>4</td><td>3</td></tr><tr><td>0.24</td><td>6</td><td>4</td></tr><tr><td>0.32</td><td>11</td><td>6</td></tr><tr><td>0.40</td><td>16</td><td>7</td></tr><tr><td>0.44</td><td>20</td><td>8</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. 36 [V]	Input Volt. 76 [V]	0.00	2	3	0.08	3	3	0.16	4	3	0.24	6	4	0.32	11	6	0.40	16	7	0.44	20	8	—	—	—	—	—	—	—	—	—	—	—	—
Load Current [A]	Ripple Voltage [mV]																																								
	Input Volt. 36 [V]	Input Volt. 76 [V]																																							
0.00	2	3																																							
0.08	3	3																																							
0.16	4	3																																							
0.24	6	4																																							
0.32	11	6																																							
0.40	16	7																																							
0.44	20	8																																							
—	—	—																																							
—	—	—																																							
—	—	—																																							
—	—	—																																							

COSEL

COSEL**Model** SUCS1R5483R3**Item** Ripple Voltage (by Ambient Temp.)**Object** +3.3V0.4A**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	10	16
-40	8	14
-20	6	13
0	5	11
25	4	9
55	3	7
60	3	7
—	—	—
—	—	—
—	—	—
—	—	—

COSEL

Model	SUCS1R5483R3			
Item	Ambient Temperature Drift		Testing Circuitry Figure A	
Object	+3.3V0.4A			
1.Graph		2.Values		
<div><div><div>—△—</div><div>Input Volt.</div><div>36V</div></div><div><div>---□---</div><div>Input Volt.</div><div>48V</div></div><div><div>-·-○-·-</div><div>Input Volt.</div><div>76V</div></div></div> <div><div><div>Output Voltage [V]</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></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></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></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></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></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></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></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></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></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></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></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></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>				

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



Model		SUCS1R5483R3	Testing Circuitry Figure A
Item		Output Voltage Accuracy	
Object		+3.3V0.4A	

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 : 36 - 76V

Load Current : 0 - 0.4A

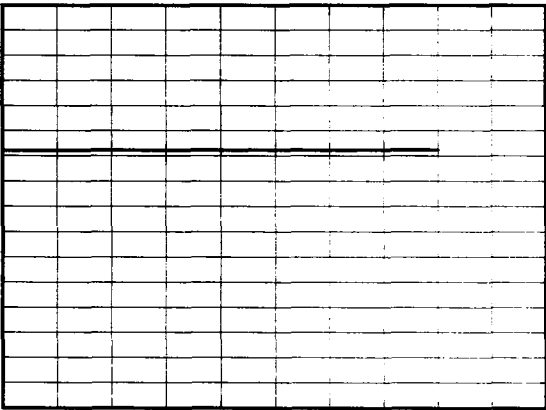
* Output Voltage Accuracy = $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

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

2. Values

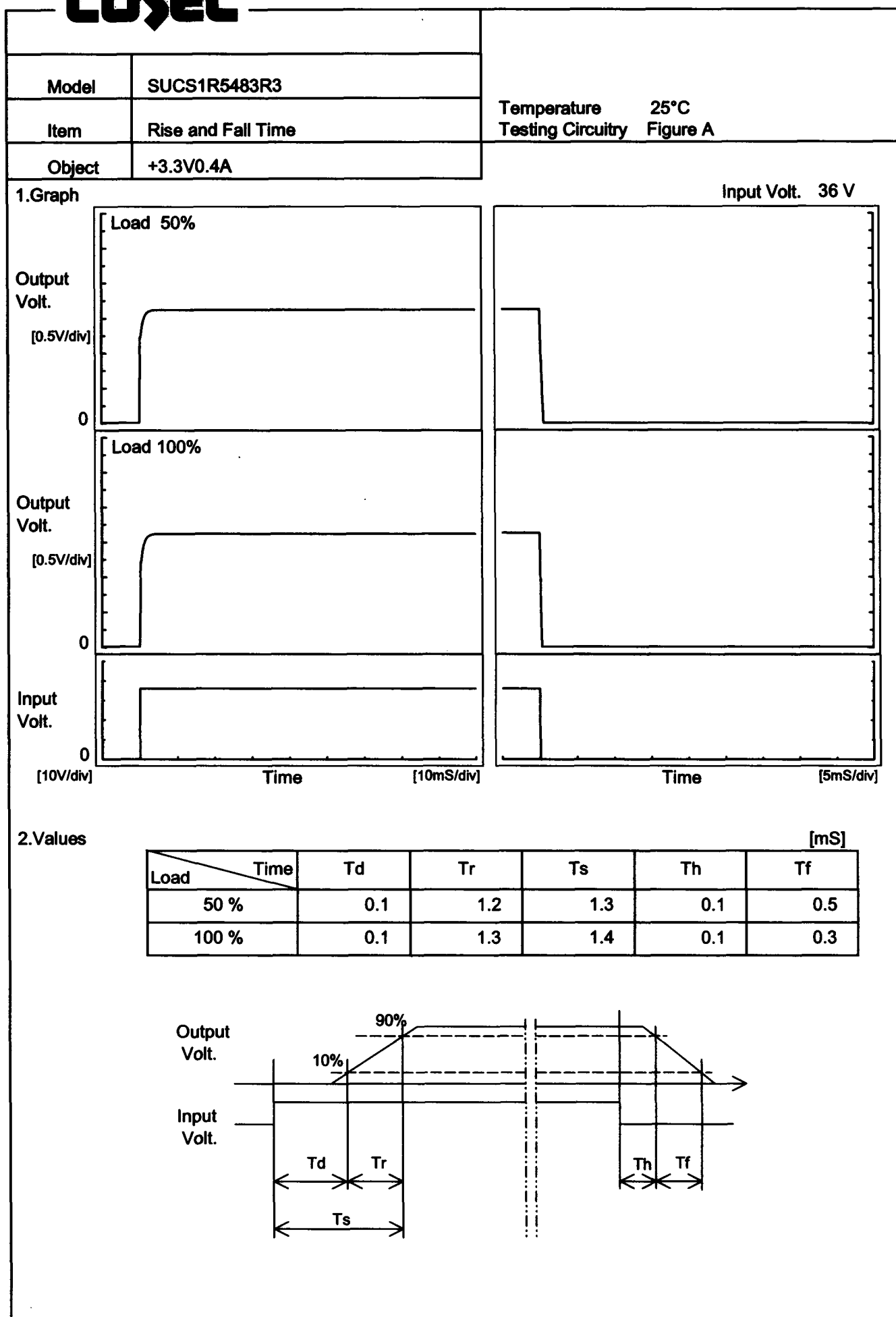
Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	25	76	0	3.327	±8	±0.2
Minimum Voltage	-40	36	0.4	3.311		

COSEL

Model	SUCS1R5483R3																								
Item	Time Lapse Drift	Temperature	25°C																						
Object	+3.3V0.4A	Testing Circuitry	Figure A																						
1.Graph		2.Values																							
<div><div><div>3.38</div><div>3.36</div><div>3.34</div><div>3.32</div><div>3.30</div><div>3.28</div><div>3.26</div><div>3.24</div><div>3.22</div></div><div></div><div><div>0</div><div>2</div><div>4</div><div>6</div><div>8</div><div>10</div></div></div> <div><div>Time [H]</div><div>Input Volt. 48V</div><div>Load 100%</div></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>3.322</td></tr><tr><td>0.5</td><td>3.322</td></tr><tr><td>1.0</td><td>3.322</td></tr><tr><td>2.0</td><td>3.322</td></tr><tr><td>3.0</td><td>3.322</td></tr><tr><td>4.0</td><td>3.322</td></tr><tr><td>5.0</td><td>3.322</td></tr><tr><td>6.0</td><td>3.322</td></tr><tr><td>7.0</td><td>3.322</td></tr><tr><td>8.0</td><td>3.322</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	3.322	0.5	3.322	1.0	3.322	2.0	3.322	3.0	3.322	4.0	3.322	5.0	3.322	6.0	3.322	7.0	3.322	8.0	3.322
Time since start [H]	Output Voltage [V]																								
0.0	3.322																								
0.5	3.322																								
1.0	3.322																								
2.0	3.322																								
3.0	3.322																								
4.0	3.322																								
5.0	3.322																								
6.0	3.322																								
7.0	3.322																								
8.0	3.322																								

- 14 -

BC-3654

COSEL

COSEL

Model		SUCS1R5483R3	
Item		Minimum Input Voltage for Regulated Output Voltage	
Object		+3.3V0.4A	

1.Graph

---□---

Load 50%

—△—

Load 100%

Input Voltage [V]

30

20

10

0

-60

-20

20

60

Ambient Temperature [°C]

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

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-60	20.2	21.1
-40	19.6	21.3
-20	19.2	21.7
0	18.6	21.9
25	17.8	22.6
55	17.2	22.9
60	17.2	23.1
--	-	-
--	-	-
--	-	-
--	-	-

2.Values

COSEL

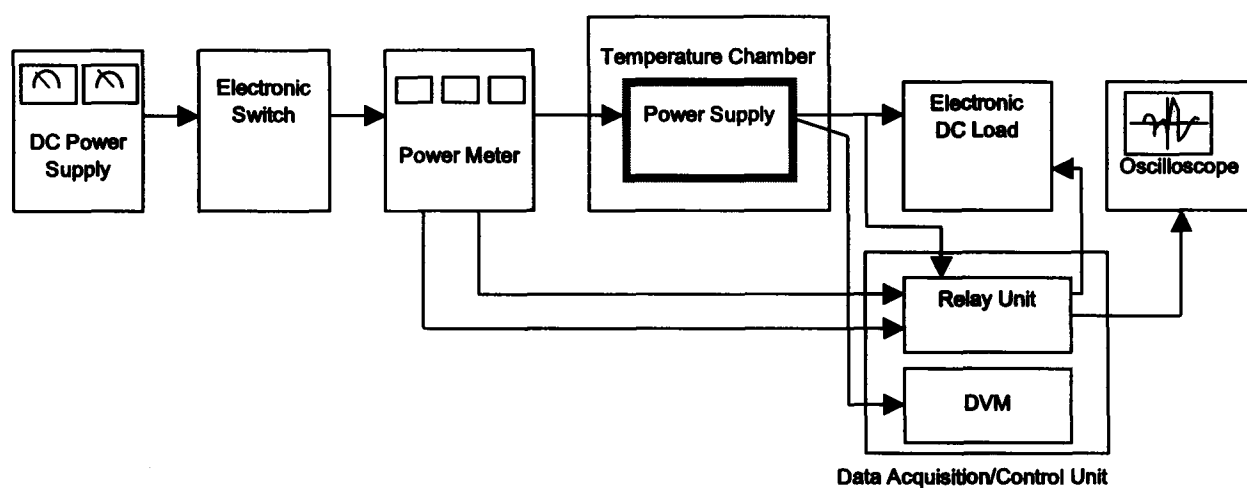


Figure A

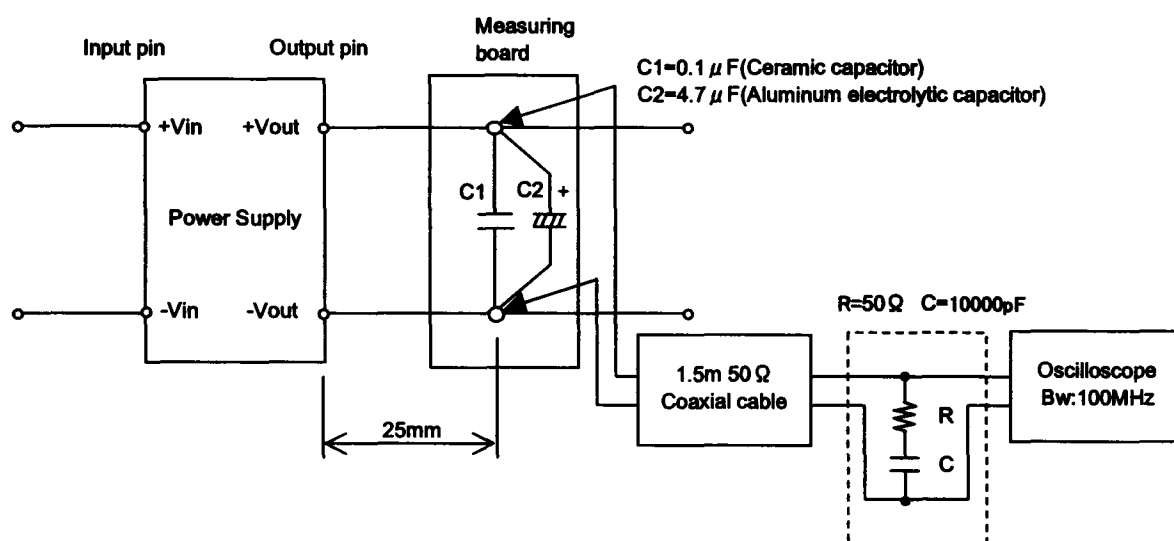


Figure B (Ripple and Ripple noise Characteristic)