



# TEST DATA OF RMC15A-1 (100V INPUT)

Regulated DC Power Supply

Sep. 24, 1999

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Design Manager

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**コーセル株式会社**  
**COSEL CO., LTD.**

## CONTENTS

1. Line Regulation . . . . .	1
静的入力変動	
2. Efficiency (by Input Voltage) . . . . .	3
効率 (入力電圧特性)	
3. Power Factor (by Input Voltage) . . . . .	4
力率 (入力電圧特性)	
4. Hold-Up Time . . . . .	5
出力保持時間	
5. Instantaneous Interruption Compensation . . . . .	8
瞬時停電保障	
6. Load Regulation . . . . .	11
静的負荷変動	
7. Ripple Voltage (by Load Current) . . . . .	13
リップル電圧 (負荷特性)	
8. Ripple-Noise . . . . .	16
リップルノイズ	
9. Overcurrent Protection . . . . .	19
過電流保護	
10. Inrush Current . . . . .	21
突入電流	
11. Dynamic Load Responce . . . . .	22
動的負荷変動	
12. Rise and Fall Time . . . . .	25
立上り、立下り時間	
13. Ambient Temperature Drift . . . . .	28
周囲温度変動	
14. Minimum Input Voltage for Regulated Output Voltage . . . . .	30
最低レギュレーション電圧	
15. Ripple Voltage (by Ambient Temperature) . . . . .	32
リップル電圧 (周囲温度特性)	
16. Time Lapse Drift . . . . .	34
経時ドリフト	
17. Output Voltage Accuracy . . . . .	36
定電圧精度	
18. Condensation . . . . .	37
結露特性	
19. Leakage Current . . . . .	38
漏洩電流	
20. Conducted Emission . . . . .	39
雑音端子電圧	
21. Figure of Testing Circuitry . . . . .	40
測定回路図	

(Final Page 41 )

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Model		RMC15A-1																																	
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Object		+5.0V2A																																	
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<div><div><div>-----□-----</div><div>Load 50%</div></div><div><div>-----△-----</div><div>Load 100%</div></div></div> <div><div>Output Voltage</div><div>[V]</div><div><div><div>5.140</div><div>5.120</div><div>5.100</div><div>5.080</div><div>5.060</div><div>5.040</div><div>5.020</div><div>0</div></div><div><div>0</div><div>80</div><div>90</div><div>100</div><div>110</div><div>120</div><div>130</div><div>140</div><div>150</div></div></div><div>Input Voltage</div><div>[V]</div></div>		<table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Output Voltage [V]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>75</td><td>5.068</td><td>5.066</td></tr><tr><td>80</td><td>5.068</td><td>5.066</td></tr><tr><td>85</td><td>5.068</td><td>5.066</td></tr><tr><td>90</td><td>5.068</td><td>5.066</td></tr><tr><td>100</td><td>5.068</td><td>5.066</td></tr><tr><td>110</td><td>5.068</td><td>5.066</td></tr><tr><td>120</td><td>5.068</td><td>5.066</td></tr><tr><td>132</td><td>5.068</td><td>5.066</td></tr><tr><td>140</td><td>5.068</td><td>5.066</td></tr></table>		Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	75	5.068	5.066	80	5.068	5.066	85	5.068	5.066	90	5.068	5.066	100	5.068	5.066	110	5.068	5.066	120	5.068	5.066	132	5.068	5.066	140	5.068	5.066
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Model		RMC15A-1	Temperature Testing Circuitry	25℃ Figure A
Item		Line Regulation 静の入力変動		
Object		-12.0V0.2A		

1. Graph

□

-----

Load 50%

△

-----

Load 100%

Output Voltage [V]

-12.26

-12.24

-12.22

-12.20

-12.18

-12.16

-12.14

0

0

80

90

100

110

120

130

140

150

Input Voltage [V]

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

(注)斜線は定格入力電圧範囲を示す。

2. Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
75	-12.189	-12.185
80	-12.190	-12.183
85	-12.190	-12.182
90	-12.191	-12.182
100	-12.192	-12.182
110	-12.192	-12.181
120	-12.192	-12.182
132	-12.192	-12.182
140	-12.192	-12.182

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Model		RMC15A-1	
Item		Efficiency (by Input Voltage) 効率 (入力電圧特性)	
Object			

1. Graph

□

Load 50%

△

Load 100%

Efficiency [%]

<

**COSEL**

Model		RMC15A-1	Temperature		25℃
Item		Power Factor (by Input Voltage) 力率 (入力電圧特性)	Testing Circuitry		Figure A
Object					

1. Graph

□

Load 50%

△

Load 100%

Power Factor

Input Voltage [V]

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

(注)斜線は定格入力電圧範囲を示す。

2. Values

Input Voltage [V]	Power Factor	
	Load 50%	Load 100%
75	0.58	0.63
80	0.58	0.61
85	0.57	0.60
90	0.56	0.59
100	0.55	0.57
110	0.53	0.56
120	0.52	0.55
132	0.51	0.53
140	0.50	0.53

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Model		RMC15A-1	
Item	Hold-Up Time 出力保持時間		
Object	+5.0V2A		
1. Graph		2. Values	

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0.18	21	31	60																																																							
0.24	20	30	57																																																							
0.30	18	28	53																																																							
0.33	15	27	53																																																							
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**COSEL**

Model		RMC15A-1		Temperature		25°C																																																
Item		Instantaneous Interruption Compensation 瞬時停電保障		Testing Circuitry		Figure A																																																
Object		-12.0V0.2A																																																				
1. Graph				2. Values																																																		
<div><div>—△—</div><div>---□---</div><div>---○---</div></div> <div><div>Input Volt. 85 V</div><div>Input Volt. 100 V</div><div>Input Volt. 132 V</div></div> <div><div>[mS]</div><div>1000</div><div>100</div><div>10</div><div>1</div><div>Instantaneous Compensation Time</div><div>00.050.10.150.20.25</div><div>Load Current [A]</div></div> <div><table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Time [mS]</th></tr><tr><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>0.00</td><td>—</td><td>—</td><td>—</td></tr><tr><td>0.04</td><td>25</td><td>37</td><td>65</td></tr><tr><td>0.08</td><td>22</td><td>31</td><td>61</td></tr><tr><td>0.12</td><td>20</td><td>31</td><td>57</td></tr><tr><td>0.16</td><td>19</td><td>29</td><td>55</td></tr><tr><td>0.20</td><td>18</td><td>27</td><td>53</td></tr><tr><td>0.22</td><td>18</td><td>27</td><td>53</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></div> <div><p>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.</p><p>Note:Slanted line shows the range of the rated load current.</p></div> <div><p>瞬時停電保障時間とは、出力電圧が定電圧精度の規格範囲を保持している瞬時停電時間をいう。</p><p>(注)斜線は定格負荷電流範囲を示す。</p></div>				Load Current [A]	Time [mS]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.00	—	—	—	0.04	25	37	65	0.08	22	31	61	0.12	20	31	57	0.16	19	29	55	0.20	18	27	53	0.22	18	27	53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Load Current [A]	Time [mS]																																																					
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																			
0.00	—	—	—																																																			
0.04	25	37	65																																																			
0.08	22	31	61																																																			
0.12	20	31	57																																																			
0.16	19	29	55																																																			
0.20	18	27	53																																																			
0.22	18	27	53																																																			
—	—	—	—																																																			
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- 11 -

# COSEL

Model		RMC15A-1	Temperature		25℃
Item		Load Regulation 静的負荷変動	Testing Circuitry		Figure A
Object		-12.0V0.2A			
1. Graph			2. Values		
<div><div><div>▲</div><div>—</div></div>Input Volt. 85 V</div> <div><div>□</div><div>- - -</div></div> Input Volt. 100 V <div><div>○</div><div>...</div></div> Input Volt. 132 V <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></di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# COSEL

Model		RMC15A-1	Temperature		25℃
Item		Ripple Voltage (by Load Current) リップル電圧 (負荷特性)	Testing Circuitry		Figure A
Object		+5.0V2A			
1. Graph		2. Values			

—△—

Input Volt. 85V

---○---

Input Volt. 132V

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

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

リップル電圧は、下図 p-p 値で示される。  
(注) 斜線は定格負荷電流範囲を示す。

T1: Due to AC Input Line  
入力商用周期

T2: Due to Switching  
スイッチング周期

Fig. Complex Ripple Wave Form  
図 リップル波形詳細図

Load Current [A]	Ripple Output Voltage [mV]	
	Input Volt. 85 [V]	Input Volt. 132 [V]
0.0	5	5
0.5	5	5
1.0	10	5
1.5	15	10
2.0	15	10
2.5	25	15
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—

# COSEL

Model		RMC15A-1	
Item		Ripple Voltage (by Load Current) リップル電圧(負荷特性)	
Object		+12.0V0.3A	

1. Graph

—△—

Input Volt. 85V

---○---

Input Volt. 132V

[mV]

Ripple Voltage

Load Current

[A]

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

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

リップル電圧は、下図 p-p 値で示される。

(注) 斜線は定格負荷電流範囲を示す。

T1: Due to AC Input Line  
入力商用周期

T2: Due to Switching  
スイッチング周期

Ripple [mVp-p]

Fig. Complex Ripple Wave Form

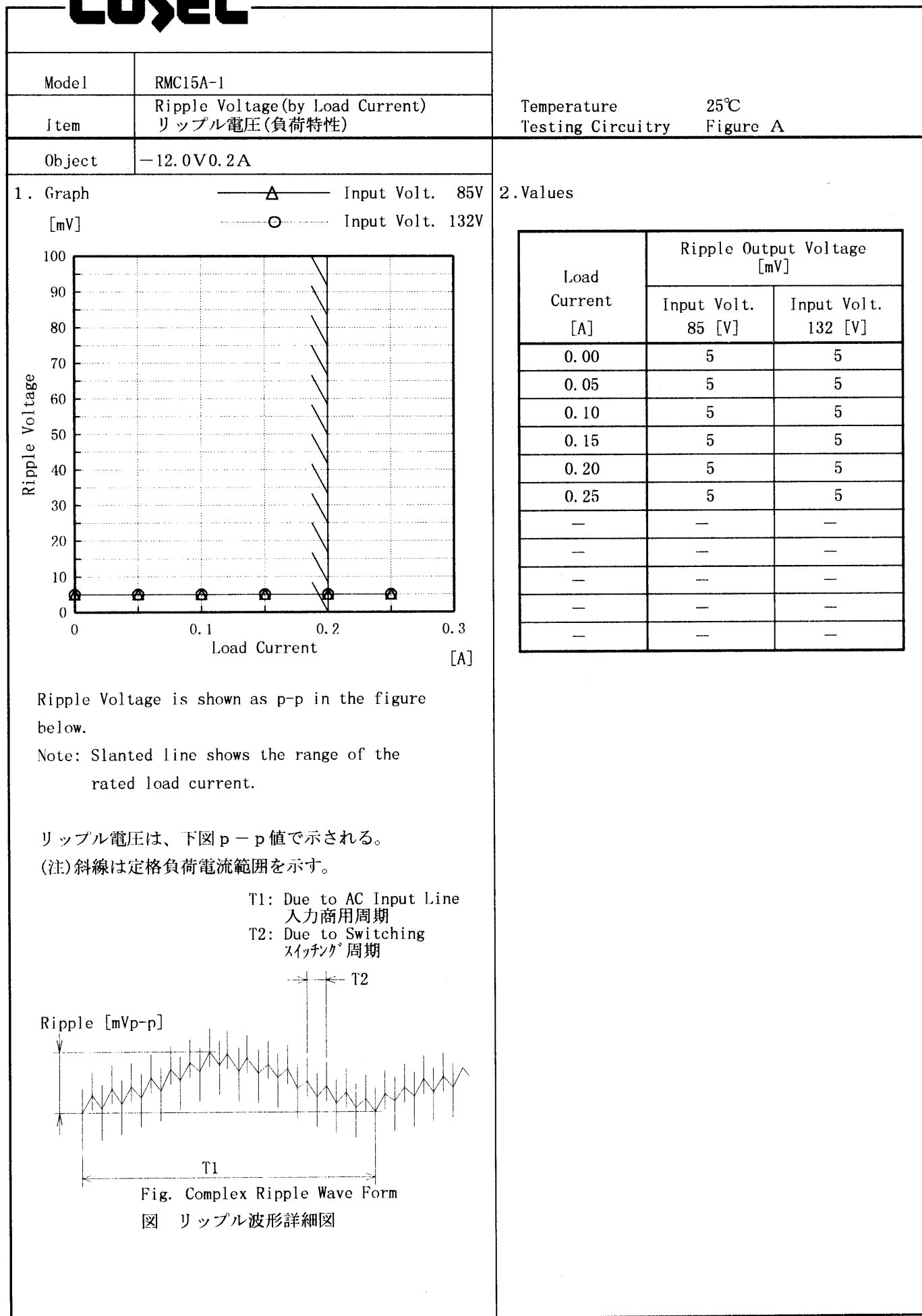
図 リップル波形詳細図

2. Values

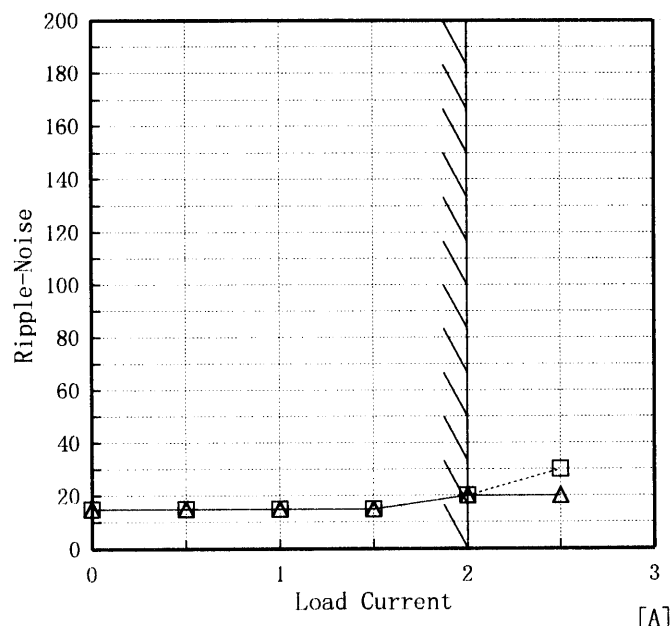
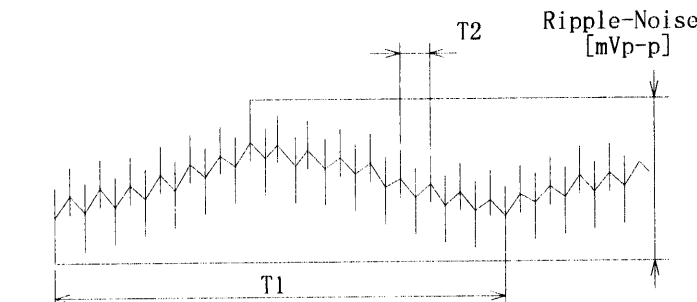
Load Current [A]	Ripple Output Voltage [mV]	
	Input Volt. 85 [V]	Input Volt. 132 [V]
0.00	5	5
0.05	5	5
0.10	5	5
0.20	5	5
0.30	5	5
0.35	5	5
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—



# COSEL



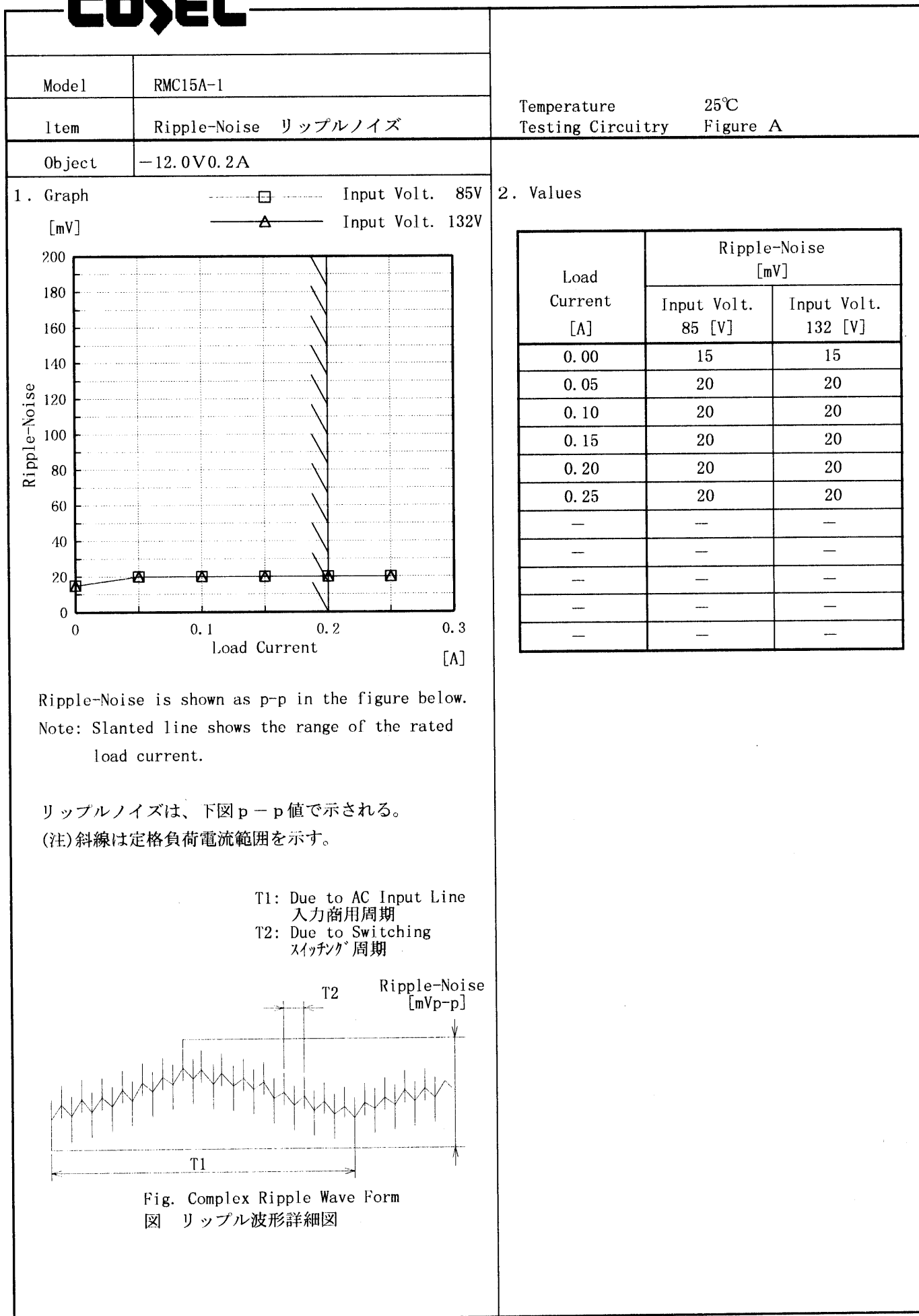
# COSEL

Model		RMC15A-1		Temperature		25℃																																							
Item		Ripple-Noise リップルノイズ		Testing Circuitry		Figure A																																							
Object		+5.0V2A																																											
1. Graph				2. Values																																									
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<p>Ripple-Noise is shown as p-p in the figure below.</p> <p>Note: Slanted line shows the range of the rated load current.</p> <p>リップルノイズは、下図 p - p 値で示される。</p> <p>(注) 斜線は定格負荷電流範囲を示す。</p>																																													
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# COSEL

Model		RMC15A-1		Temperature		25℃																																							
Item		Ripple-Noise   リップルノイズ		Testing Circuitry		Figure A																																							
Object		+12.0V0.3A																																											
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<div><div><div>-----□-----</div><div>-----△-----</div></div><div>Input Volt. 85V</div><div>Input Volt. 132V</div></div> <div><div><div>200</div><div>180</div><div>160</div><div>140</div><div>120</div><div>100</div><div>80</div><div>60</div><div>40</div><div>20</div><div>0</div></div><div><div>Ripple-Noise</div><div>[mV]</div></div><div><div>0</div><div>0.1</div><div>0.2</div><div>0.3</div><div>0.4</div></div><div><div>Load Current</div><div>[A]</div></div></div>				<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple-Noise [mV]</th></tr><tr><th>Input Volt. 85 [V]</th><th>Input Volt. 132 [V]</th></tr><tr><td>0.00</td><td>10</td><td>10</td></tr><tr><td>0.05</td><td>15</td><td>15</td></tr><tr><td>0.10</td><td>15</td><td>15</td></tr><tr><td>0.20</td><td>15</td><td>15</td></tr><tr><td>0.30</td><td>15</td><td>15</td></tr><tr><td>0.35</td><td>20</td><td>20</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><tr><td>—</td><td>—</td><td>—</td></tr></table>				Load Current [A]	Ripple-Noise [mV]		Input Volt. 85 [V]	Input Volt. 132 [V]	0.00	10	10	0.05	15	15	0.10	15	15	0.20	15	15	0.30	15	15	0.35	20	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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# COSEL



**COSEL**

Model	RMC15A-1	Temperature	25℃																																																							
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Note: Slanted line shows the range of the rated load current. (注)斜線は定格負荷電流範囲を示す。																																																										

**COSEL**

Model		RMC15A-1		Temperature		25℃	
Item		Overcurrent Protection 過電流保護		Testing Circuitry		Figure A	
Object		-12.0V0.2A					

1. Graph

----- Input Volt. 85 V

----- Input Volt. 100 V

----- Input Volt. 132 V

[V]

Output Voltage

-20.0

-15.0

-10.0

-5.0

-0.0

0

0.2

0.4

0.6

0.8

1

Load Current

[A]

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

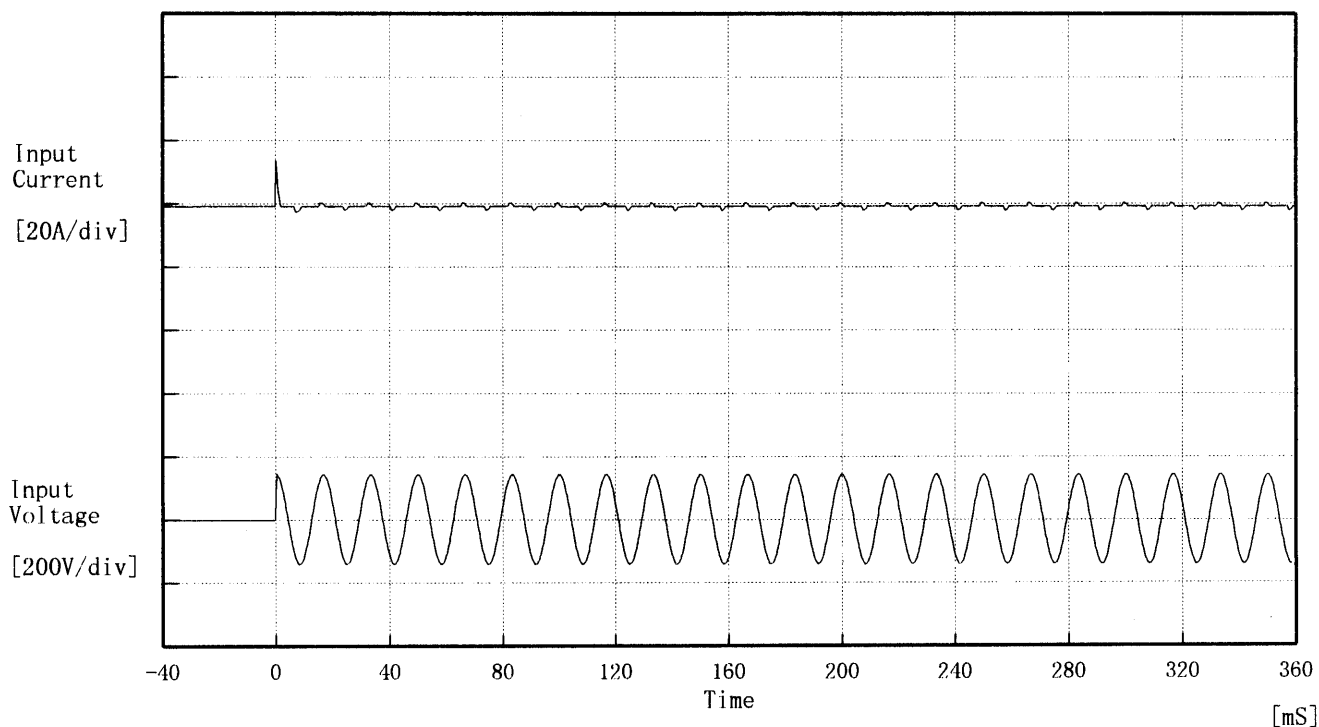
(注)斜線は定格負荷電流範囲を示す。

2. Values

Output Voltage [V]	Load Current [A]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-12.00	0.000	0.000	0.000
-11.40	0.586	0.568	0.508
-10.80	0.623	0.601	0.537
-9.60	0.690	0.661	0.589
-8.40	0.745	0.709	0.634
-7.20	0.790	0.752	0.675
-6.00	0.830	0.785	0.710
-4.80	0.858	0.809	0.743
-3.60	0.869	0.822	0.767
-2.40	0.866	0.828	0.787
-1.20	0.884	0.850	0.804
0.00	0.881	0.848	0.802

**COSEL**

Model	RMC15A-1	Temperature	25°C
Item	Inrush Current 突入電流	Testing Circuitry	Figure A
Object	_____		



Input Voltage 100 V

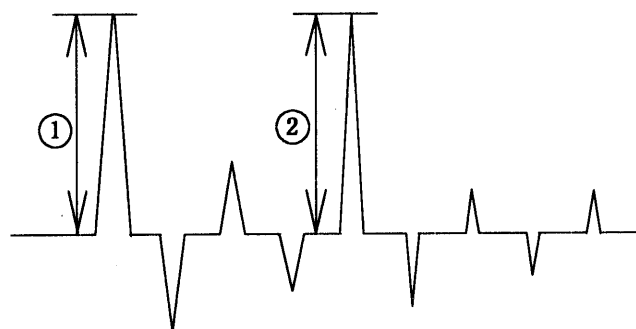
Frequency 60 Hz

Load 100 %

Inrush Current

① 13.48 [A]

② 2.15 [A]



**COSEL**

Model	RMC15A-1	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Responce 動的負荷変動	
Object	+5.0V2A	

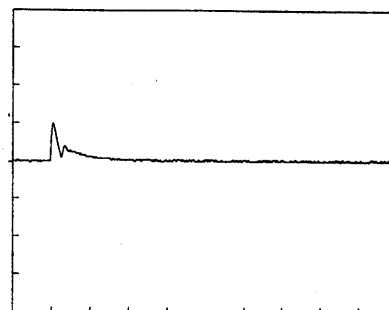
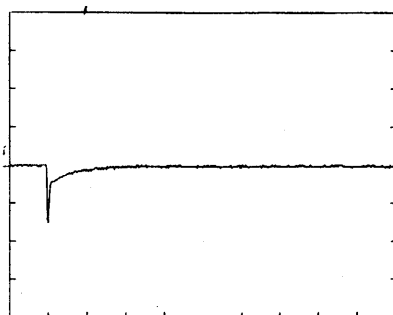
Input Volt. 100 V

Cycle 1000 mS

Load Current

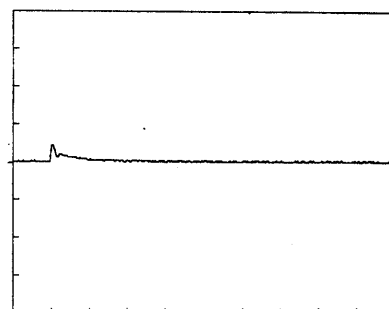
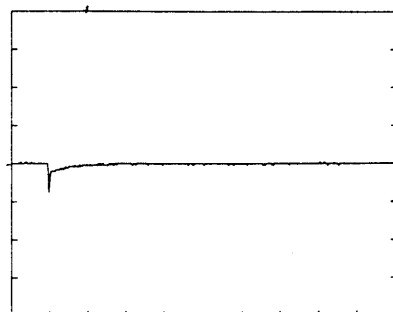
Load 0% ↔

Load 100 %



Load 0% ↔

Load 50 %



100 mV/div

10 mS/div



**COSEL**

Model	RMC15A-1		
Item	Dynamic Load Responce 動的負荷変動	Temperature	25℃
Object	+12.0V0.3A	Testing Circuitry	Figure A

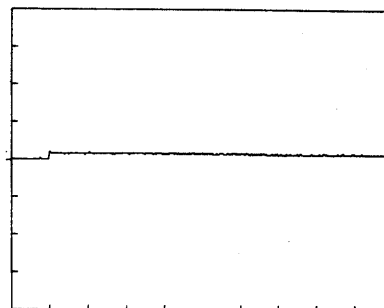
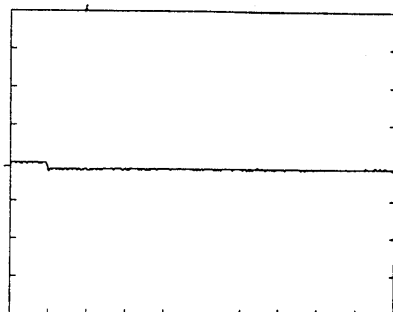
Input Volt. 100 V

Cycle 1000 mS

Load Current

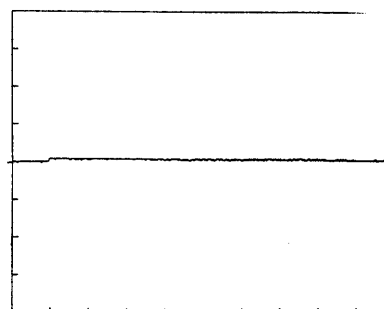
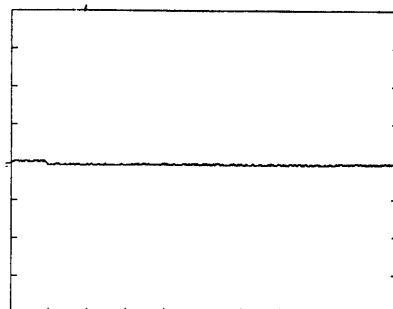
Load 0% ←→

Load 100 %



Load 0% ←→

Load 50 %



100 mV/div

10 mS/div

**COSEL**

Model	RMC15A-1	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Responce 動的負荷変動	
Object	-12.0V 0.2A	

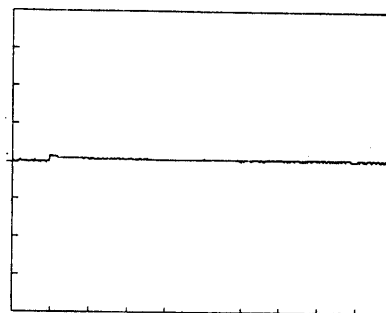
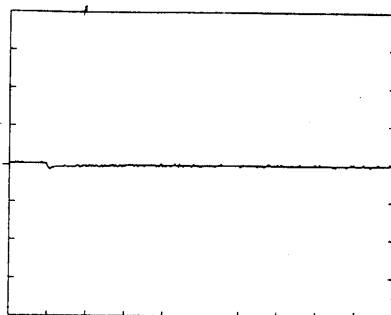
Input Volt. 100 V

Cycle 1000 mS

Load Current

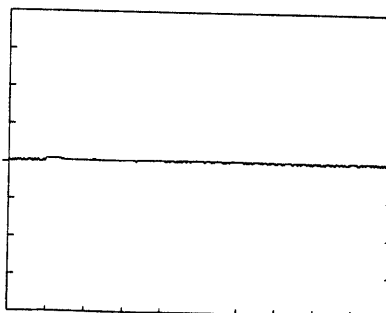
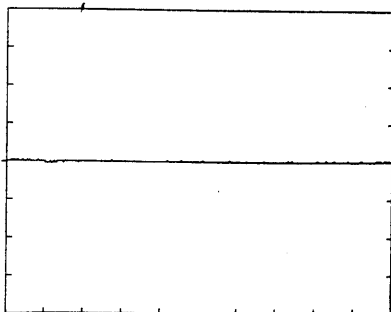
Load 0% ←→

Load 100 %



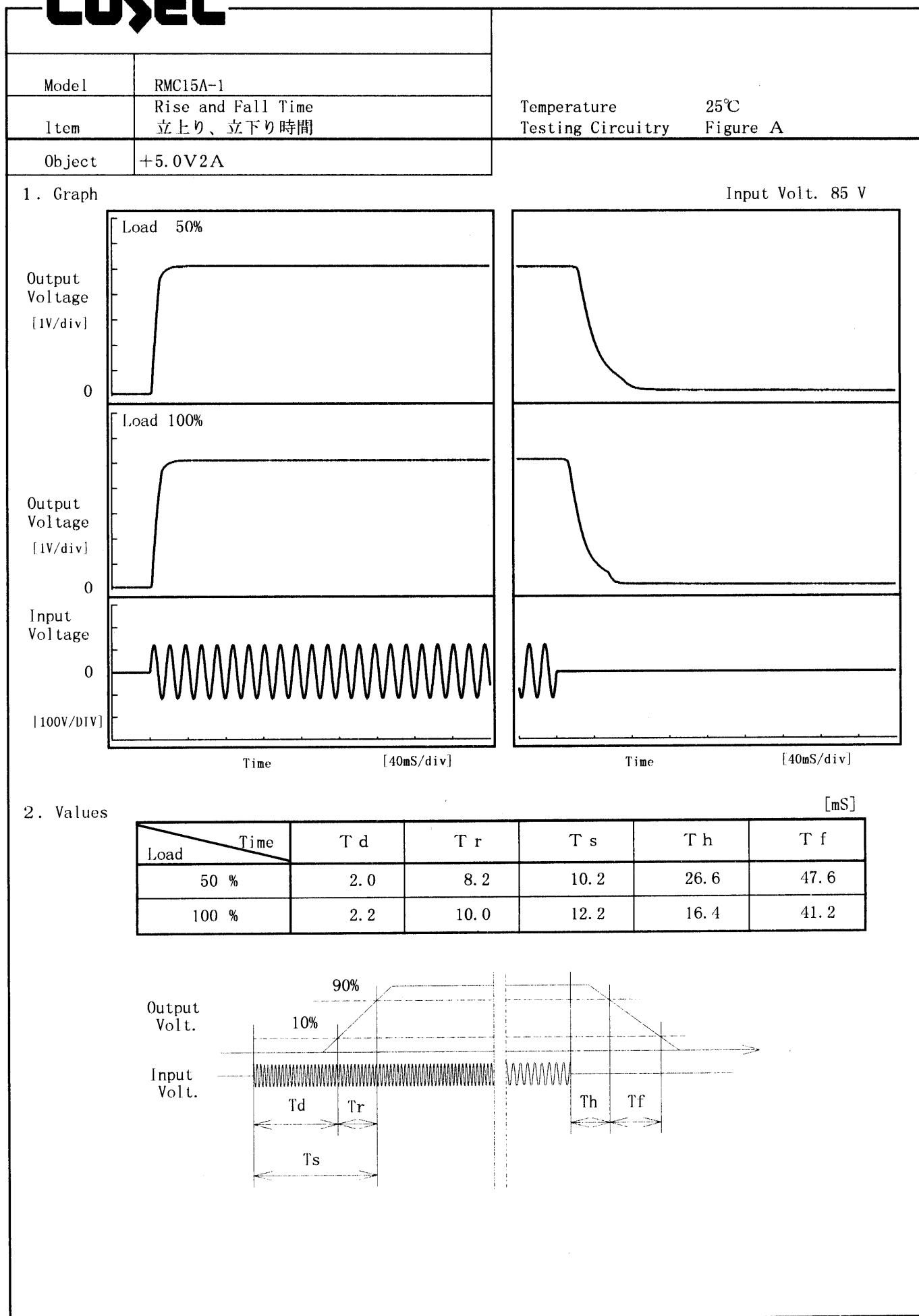
Load 0% ←→

Load 50 %



100 mV/div

10 mS/div

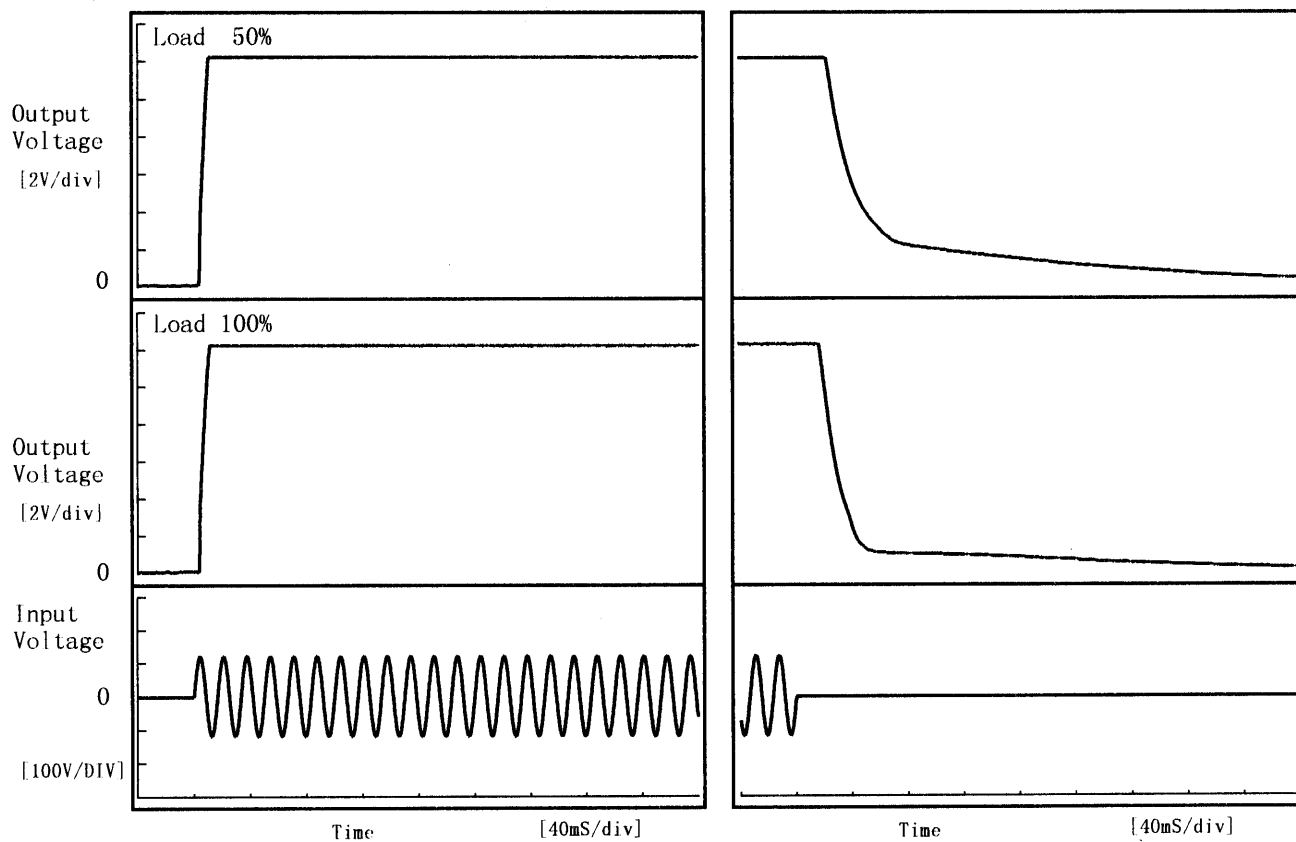
**COSEL**

**COSEL**

Model	RMC15A-1	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+12.0V0.3A		

## 1. Graph

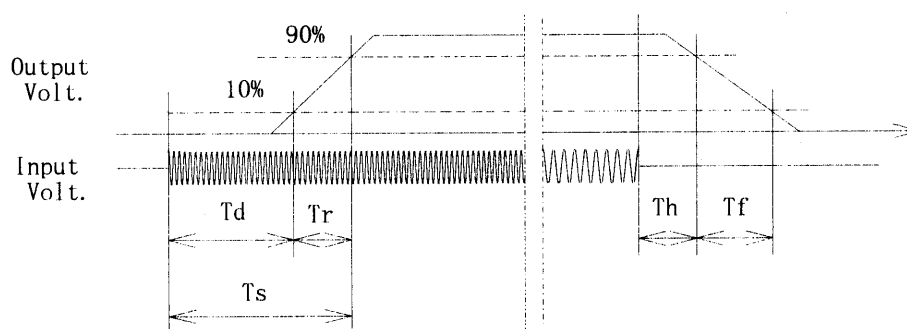
Input Volt. 85 V

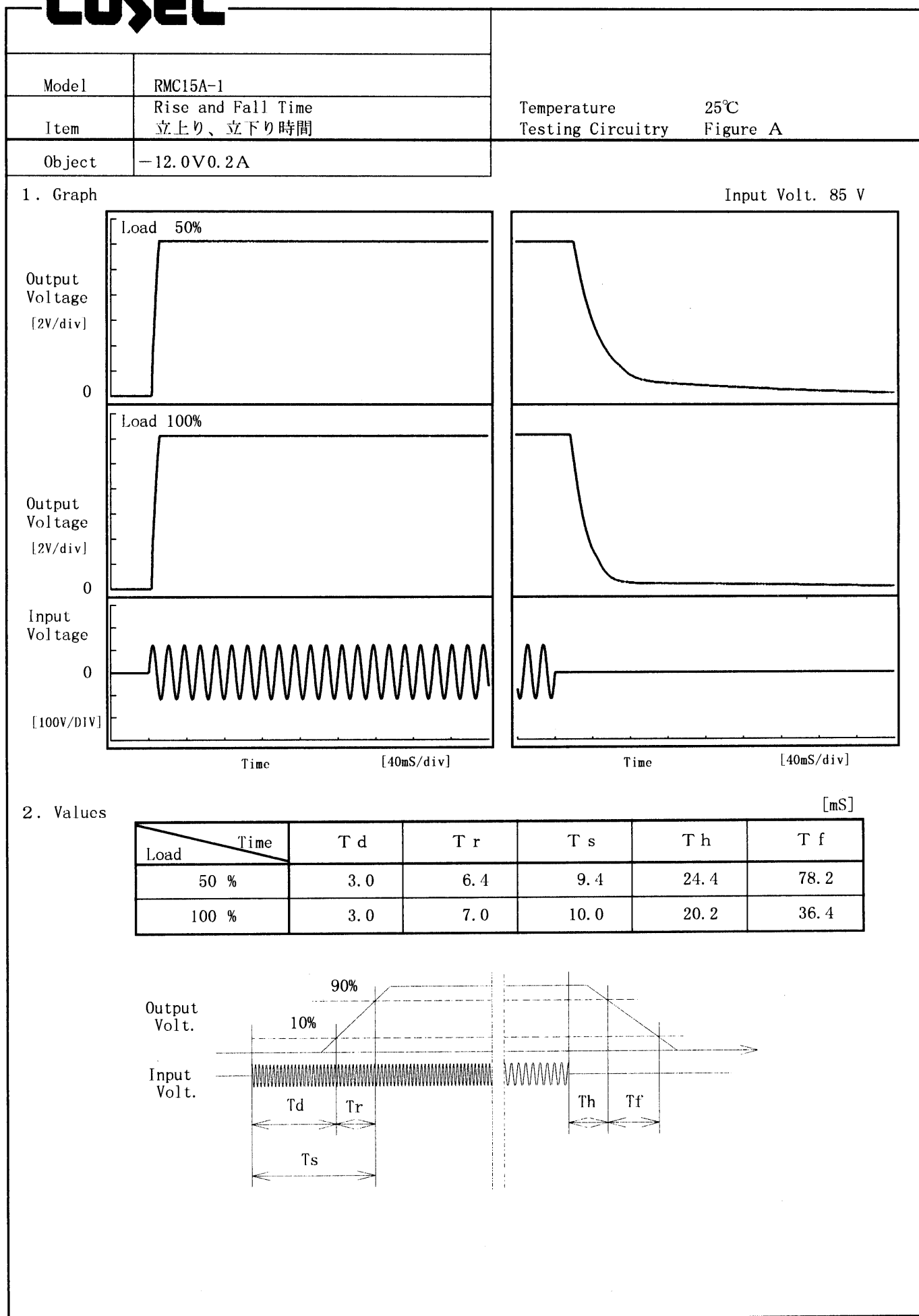


## 2. Values

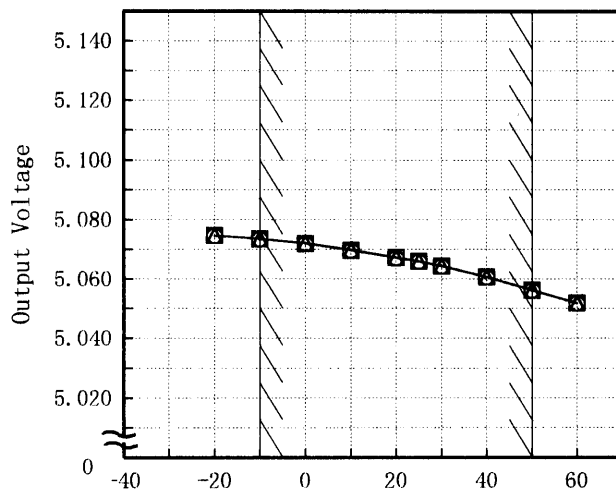
[mS]

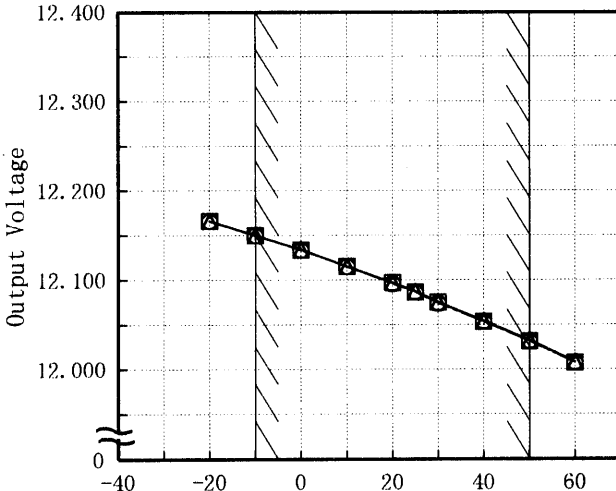
Load \ Time	T d	T r	T s	T h	T f
50 %	3.4	5.6	9.0	25.0	161.6
100 %	3.6	6.2	9.8	19.6	31.8



**COSEL**

# COSEL

Model		RMC15A-1		
Item		Ambient Temperature Drift 周囲温度変動		
Object		+5.0V2A		
1. Graph				
[V]		—△— Input Volt. 85V - - -□- - - Input Volt. 100V - - -○- - - Input Volt. 132V		
		Ambient Temperature [°C]		
		Load 100%		
2. Values				
Ambient Temperature [°C]		Output Voltage [V]		
		Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20		5.075	5.075	5.075
-10		5.074	5.074	5.074
0		5.072	5.072	5.072
10		5.070	5.070	5.070
20		5.067	5.067	5.067
25		5.066	5.066	5.066
30		5.064	5.064	5.064
40		5.061	5.061	5.061
50		5.056	5.056	5.056
60		5.052	5.052	5.052
—		—	—	—

Object		+12.0V0.3A		
1. Graph				
[V]		—△— Input Volt. 85V - - -□- - - Input Volt. 100V - - -○- - - Input Volt. 132V		
		Ambient Temperature [°C]		
		Load 100%		
2. Values				
Ambient Temperature [°C]		Output Voltage [V]		
		Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20		12.166	12.166	12.166
-10		12.150	12.150	12.150
0		12.134	12.133	12.133
10		12.115	12.115	12.115
20		12.097	12.097	12.096
25		12.087	12.086	12.086
30		12.075	12.075	12.074
40		12.054	12.053	12.053
50		12.032	12.031	12.031
60		12.008	12.007	12.007
—		—	—	—

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

(注)斜線は定格周囲温度範囲を示す。

**COSEL**

Model		RMC15A-1	
Item		Ambient Temperature Drift 周囲温度変動	
Object		-12.0V0.2A	

1. Graph

△

—

Input Volt. 85V

□

- - -

Input Volt. 100V

○

...

Input Volt. 132V

Output Voltage [V]

-12.60

-12.50

-12.40

-12.30

-12.20

-12.10

-12.00

-11.90

0

-30

-10

10

30

50

70

Ambient Temperature [°C]

Load 100%

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

(注)斜線は定格周囲温度範囲を示す。

2. Values

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	-12.285	-12.284	-12.284
-10	-12.269	-12.269	-12.268
0	-12.249	-12.249	-12.248
10	-12.227	-12.226	-12.226
20	-12.204	-12.204	-12.203
25	-12.192	-12.191	-12.191
30	-12.180	-12.179	-12.178
40	-12.151	-12.150	-12.149
50	-12.121	-12.120	-12.119
60	-12.090	-12.089	-12.088
—	—	—	—

# COSEL

Model		RMC15A-1	
Item		Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧	
Object		+5.0V2A	

1. Graph

[V]

100.0

80.0

60.0

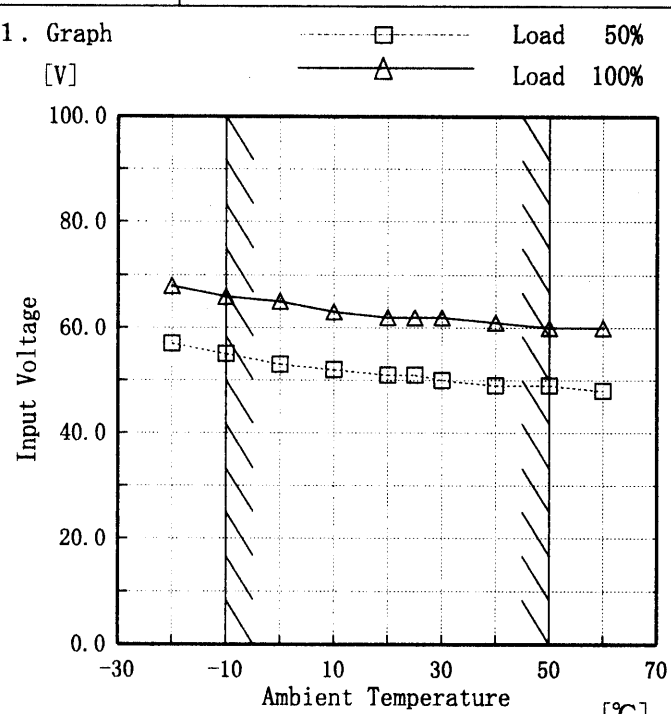
40.0

20.0

0.0

-----□----- Load 50%

-----△----- Load 100%



Ambient Temperature

[°C]

2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	57	68
-10	55	66
0	53	65
10	52	63
20	51	62
25	51	62
30	50	62
40	49	61
50	49	60
60	48	60
—	—	—

Object		+12.0V0.3A	
--------	--	------------	--

1. Graph

[V]

100.0

80.0

60.0

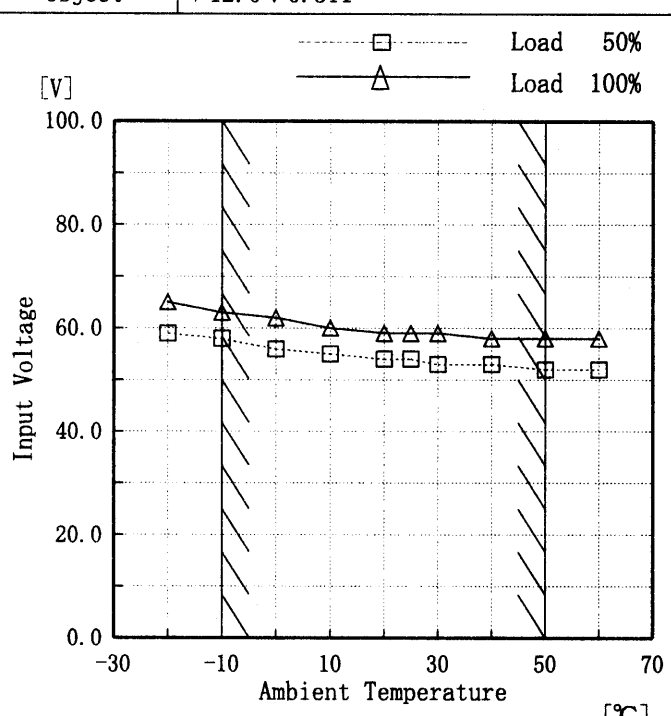
40.0

20.0

0.0

-----□----- Load 50%

-----△----- Load 100%



Ambient Temperature

[°C]

2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	59	65
-10	58	63
0	56	62
10	55	60
20	54	59
25	54	59
30	53	59
40	53	58
50	52	58
60	52	58
—	—	—

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

(注)斜線は定格周囲温度範囲を示す。



**COSEL**

Model

RMC15A-1

Item

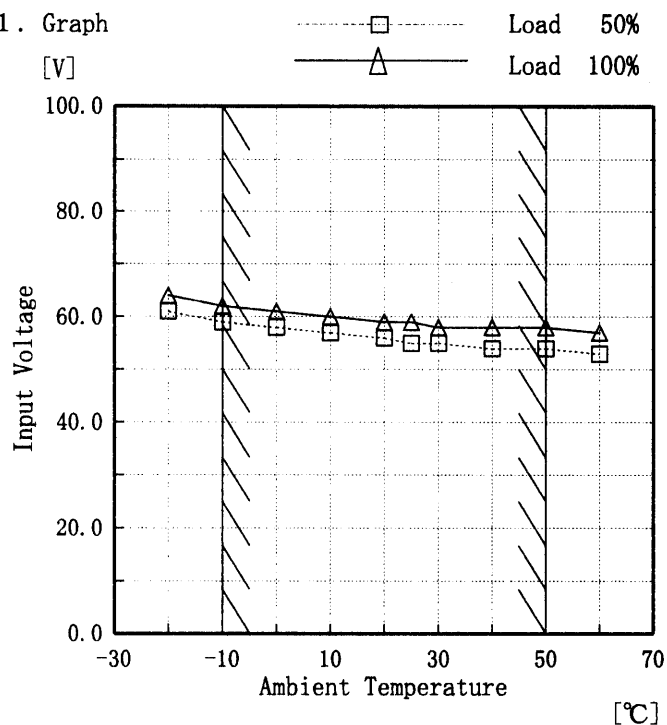
Minimum Input Voltage for Regulated Output Voltage  
最低レギュレーション電圧

Object

-12.0V0.2A

Testing Circuitry Figure A

## 1. Graph



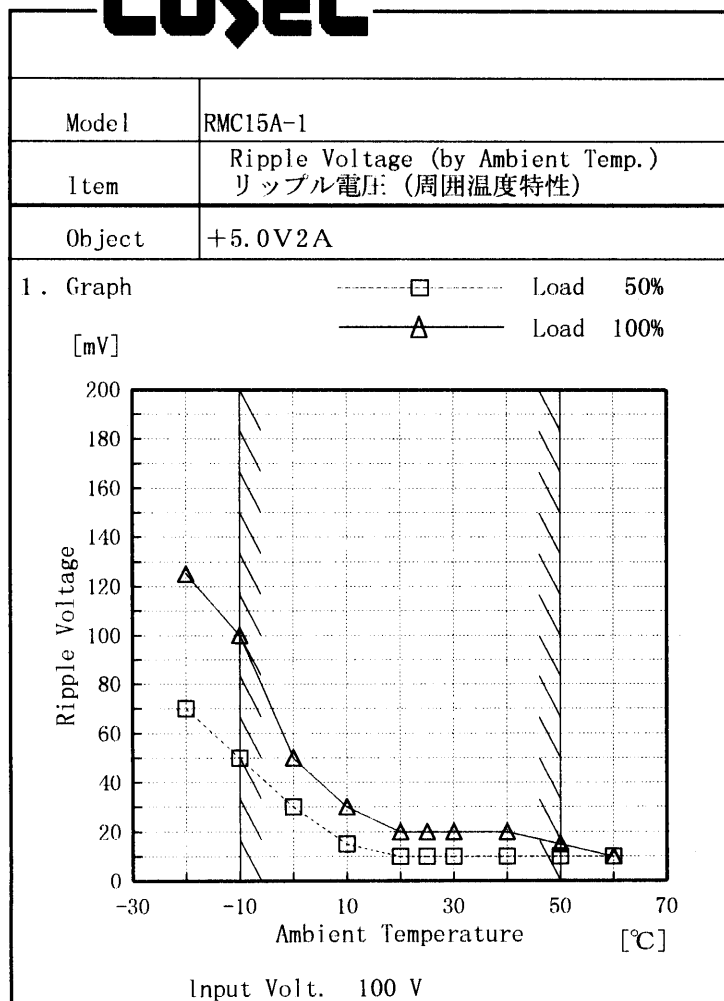
Note: Slanted line shows the range of the rated ambient temperature.

(注) 斜線は定格周囲温度範囲を示す。

## 2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	61	64
-10	59	62
0	58	61
10	57	60
20	56	59
25	55	59
30	55	58
40	54	58
50	54	58
60	53	57
—	—	—

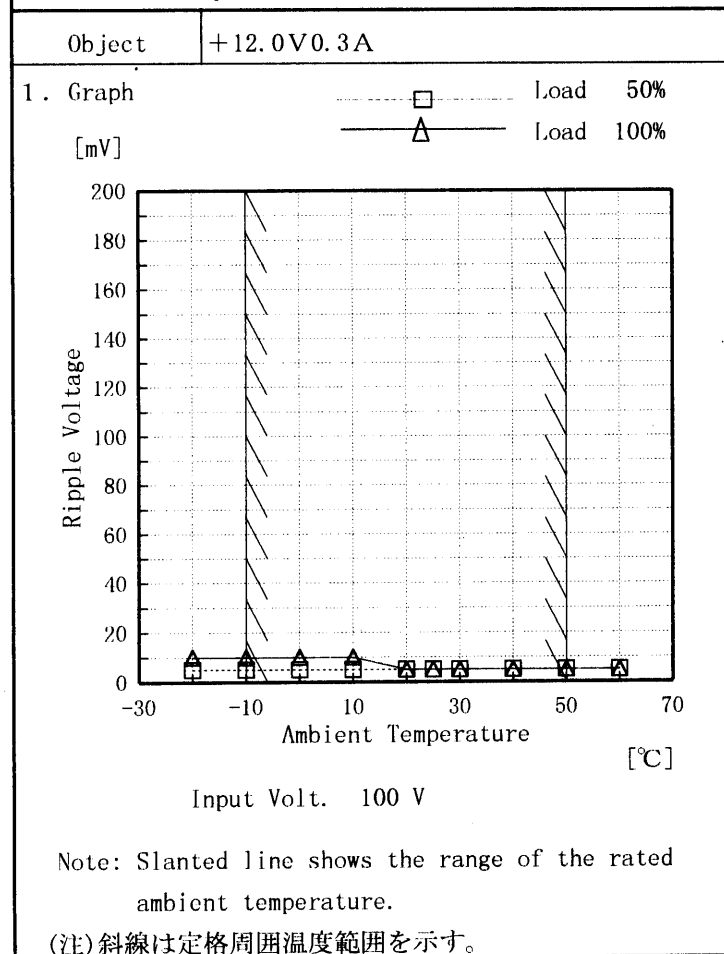
# COSEL



Testing Circuitry Figure A

## 2. Values

Ambient Temperature [°C]	Ripple Output Voltage [mV]	
	Load 50%	Load 100%
-20	70	125
-10	50	100
0	30	50
10	15	30
20	10	20
25	10	20
30	10	20
40	10	20
50	10	15
60	10	10
—	—	—



## 2. Values

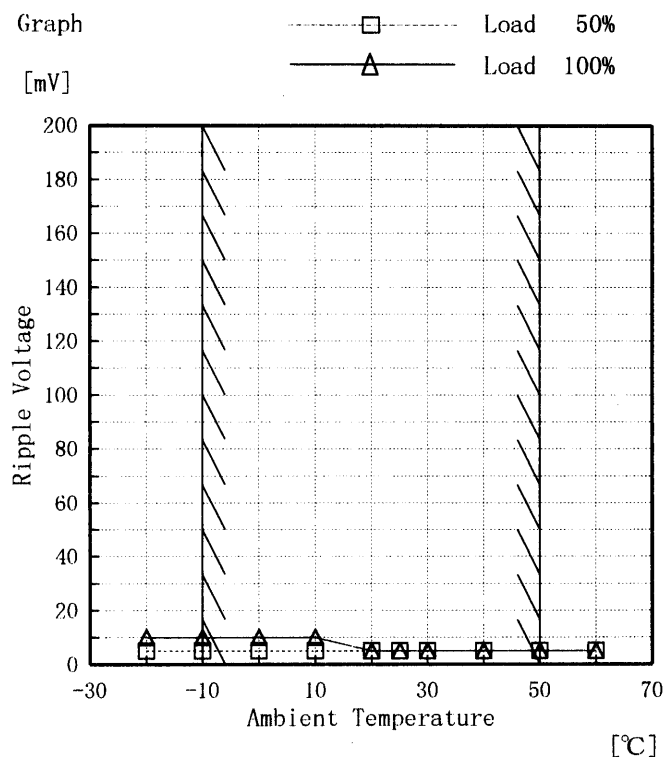
Ambient Temperature [°C]	Ripple Output Voltage [mV]	
	Load 50%	Load 100%
-20	5	10
-10	5	10
0	5	10
10	5	10
20	5	5
25	5	5
30	5	5
40	5	5
50	5	5
60	5	5
—	—	—

# COSEL

Model	RMC15A-1
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)
Object	-12.0V0.2A

Testing Circuitry Figure A

## 1. Graph



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

(注) 斜線は定格周囲温度範囲を示す。

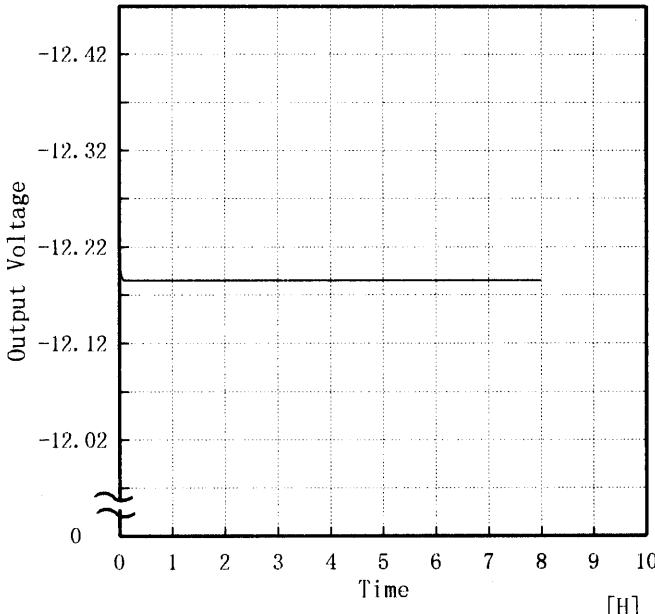
## 2. Values

Ambient Temperature [°C]	Ripple Output Voltage [mV]	
	Load 50%	Load 100%
-20	5	10
-10	5	10
0	5	10
10	5	10
20	5	5
25	5	5
30	5	5
40	5	5
50	5	5
60	5	5
—	—	—

# COSEL

COSEL			
Model	RMC15A-1		
Item	Time Lapse Drift 経時ドリフト	Temperature	25℃
Object	+5.0V2A	Testing Circuitry	Figure A
1. Graph		2. Values	
<div><div><div>Output Voltage</div><div>[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><d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**COSEL**

COSEL																									
Model	RMC15A-1																								
Item	Time Lapse Drift 経時ドリフト	Temperature	25℃																						
Object	-12.0V0.2A	Testing Circuitry	Figure A																						
1. Graph		2.Values																							
<div>[V]</div> <div></div> <div>Output Voltage</div> <div>Time</div> <div>[H]</div> <div>Input Volt. 100V</div> <div>Load 100%</div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>-12.222</td></tr><tr><td>0.5</td><td>-12.185</td></tr><tr><td>1.0</td><td>-12.185</td></tr><tr><td>2.0</td><td>-12.185</td></tr><tr><td>3.0</td><td>-12.185</td></tr><tr><td>4.0</td><td>-12.185</td></tr><tr><td>5.0</td><td>-12.185</td></tr><tr><td>6.0</td><td>-12.185</td></tr><tr><td>7.0</td><td>-12.185</td></tr><tr><td>8.0</td><td>-12.185</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	-12.222	0.5	-12.185	1.0	-12.185	2.0	-12.185	3.0	-12.185	4.0	-12.185	5.0	-12.185	6.0	-12.185	7.0	-12.185	8.0	-12.185
Time since start [H]	Output Voltage [V]																								
0.0	-12.222																								
0.5	-12.185																								
1.0	-12.185																								
2.0	-12.185																								
3.0	-12.185																								
4.0	-12.185																								
5.0	-12.185																								
6.0	-12.185																								
7.0	-12.185																								
8.0	-12.185																								

# COSEL

		Testing Circuitry Figure A
Model	RMC15A-1	
Item	Output Voltage Accuracy 定電圧精度	

## 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 : -10~50 °C

Input Voltage : 85~132 V

Load Current (AVR 1) : 0~2 A (AVR 2) : 0~0.3 A (AVR 3) : 0~0.2 A

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

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

## 1. 定電圧精度

周囲温度、入力電圧、負荷電流を下記仕様内で、任意に変動させたときの出力電圧の変動をいう。

周囲温度 -10~50 °C

入力電圧 85~132 V

負荷電流 (AVR 1) : 0~2 A (AVR 2) : 0~0.3 A (AVR 3) : 0~0.2 A

\* 定電圧精度(変動値) =  $\pm (\text{出力電圧の最高値} - \text{出力電圧の最低値}) / 2$

\* 定電圧精度(変動率) =  $\frac{\text{変動値}}{\text{定格出力電圧}} \times 100$

## 2. Values

Object		+5.0V2A				
Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy(Ration) [%]
Maximum Voltage	-10	85	0	5.078	±11	±0.3
Minimum Voltage	50	132	2	5.056		

Object		+12.0V0.3A				
Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy(Ration) [%]
Maximum Voltage	-10	85	0.0	12.183	±81	±0.7
Minimum Voltage	50	132	0.3	12.022		

Object		-12.0V0.2A				
Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy(Ration) [%]
Maximum Voltage	-10	85	0.0	-12.277	±83	±0.7
Minimum Voltage	50	132	0.2	-12.111		



# COSEL

Model	RMC15A-1		
Item	Leakage Current 漏洩電流		Temperature 25℃ Testing Circuitry Figure B
Object			

1. Results

Standards	Leakage Current [mA]		
	Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]
(A) DENTORI	0.11	0.13	0.18
(B) IEC60950	0.12	0.14	0.18

Standards	Leakage Current [mA]		
	Input Volt. 170 [V]	Input Volt. 230 [V]	Input Volt. 264 [V]
(B) IEC60950	—	—	—

2. Condition

Leakage current value is concluded after measuring both phases of AC input and by choosing the larger one.

交流入力 of 両相について測定し、その大きい方を漏洩電流測定値とする。

- 38 -

BC-3256



**COSEL**

Model	RMC15A-1
Item	Conducted Emission 雑音端子電圧
Object	

Testing Circuitry Figure D

## 1. Graph

## Remarks

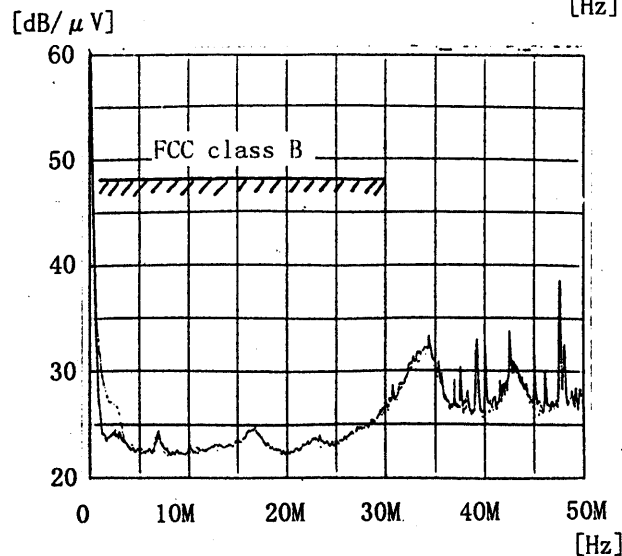
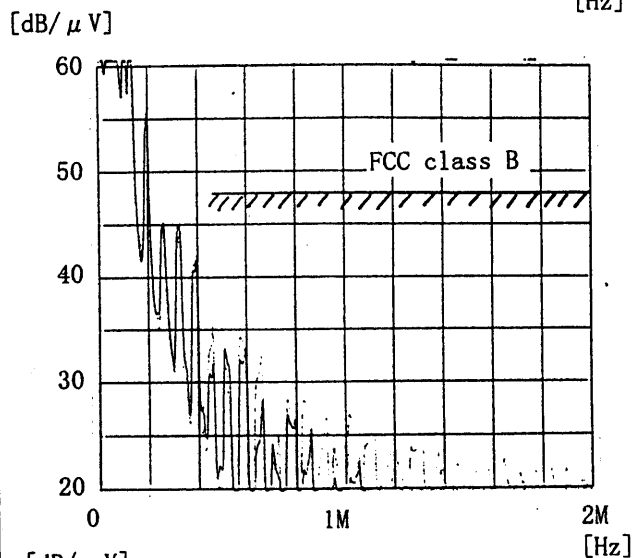
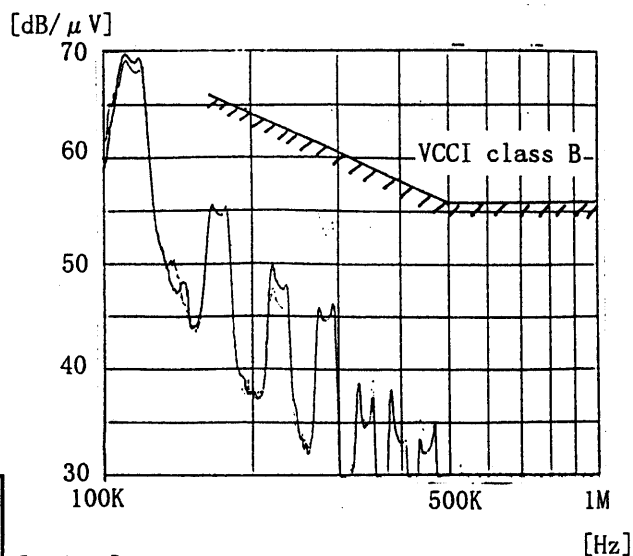
Input Volt. 120 V (VCCI:100V)

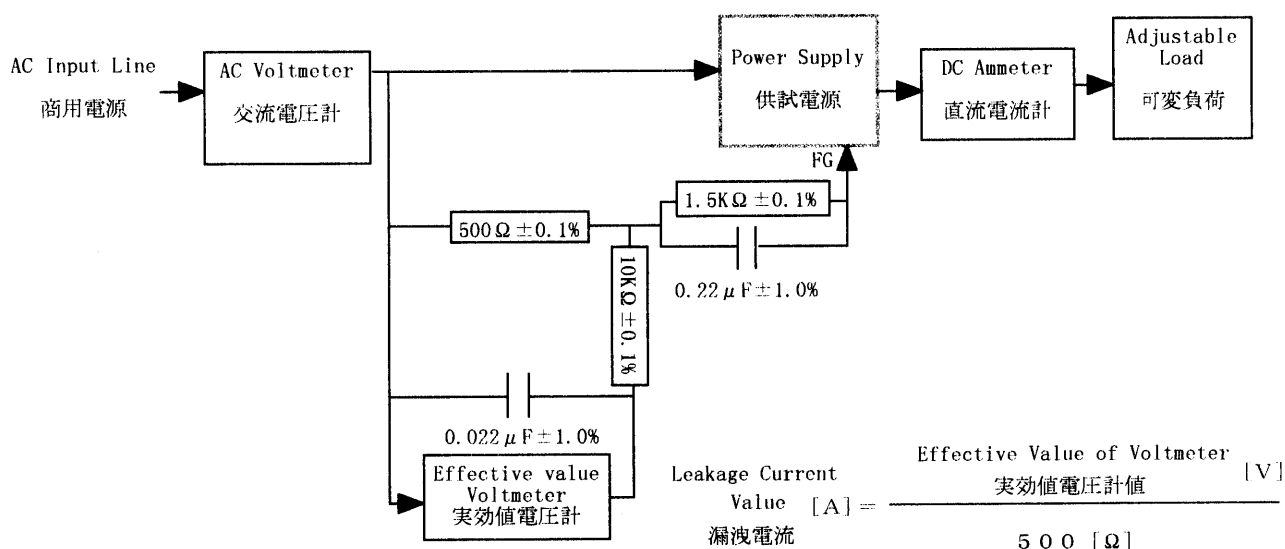
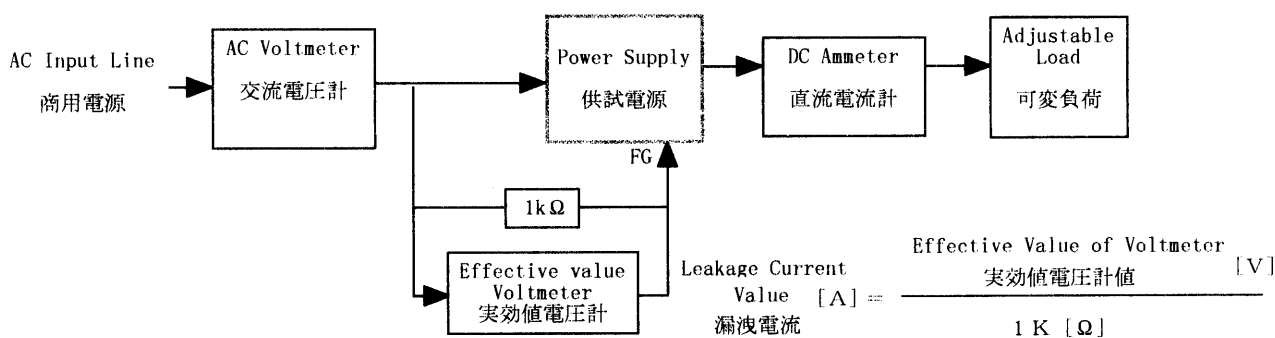
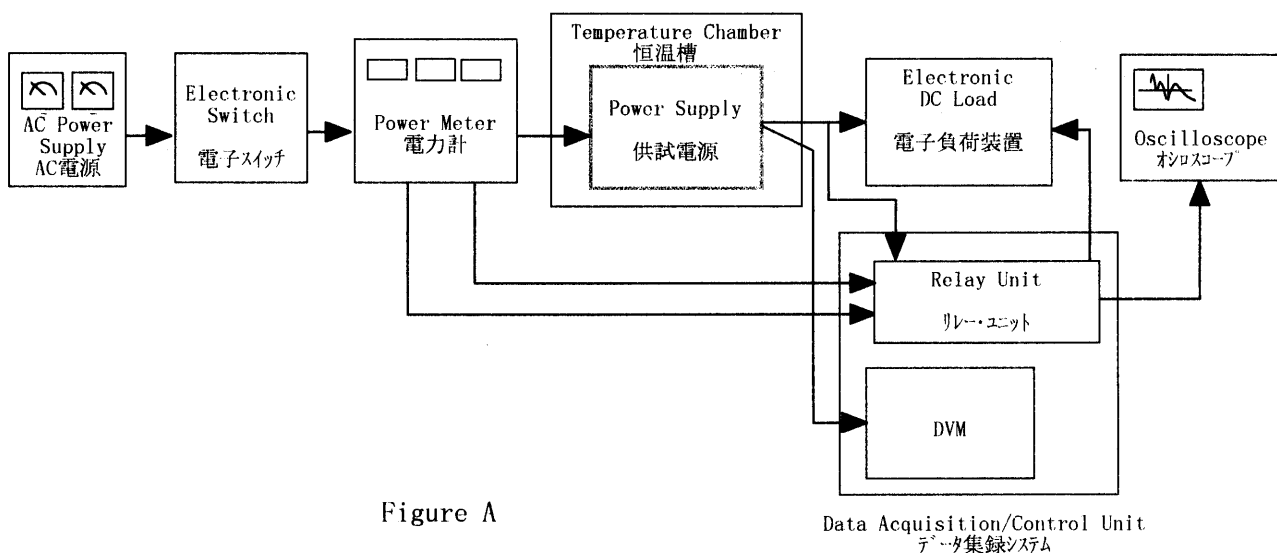
Load 100 %

Note: Slanted line shows the range of Tolerance.

(注) 斜線は許容値を示す。

NO	Standards	Standards Complied	Frequency [MHz]	Tolerance [dB/μV]
1	FCC class A		0.45~1.6	60
			1.6~30	69.5
2	FCC class B	○	0.45~30	48
3	VCCI class A		0.15~0.5	79
			0.5~30	73
4	VCCI class B	○	0.15~0.5	66-56
			0.5~5	56
			5~30	60
5	CISPR Pub. 22 class A (EN55022)		0.15~0.5	79
			0.5~30	73
6	CISPR Pub. 22 class B (EN55022)		0.15~0.5	66-56
			0.5~5	56
			5~30	60





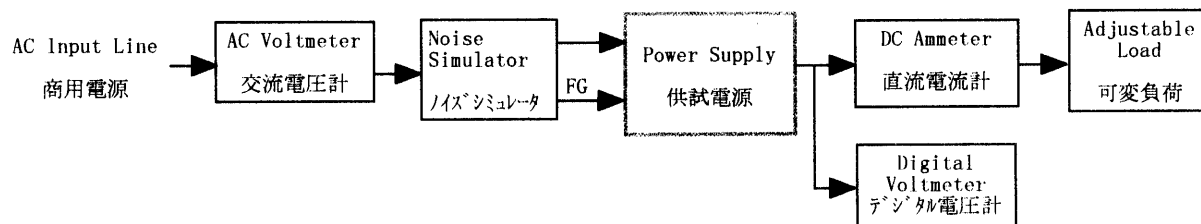


Figure C

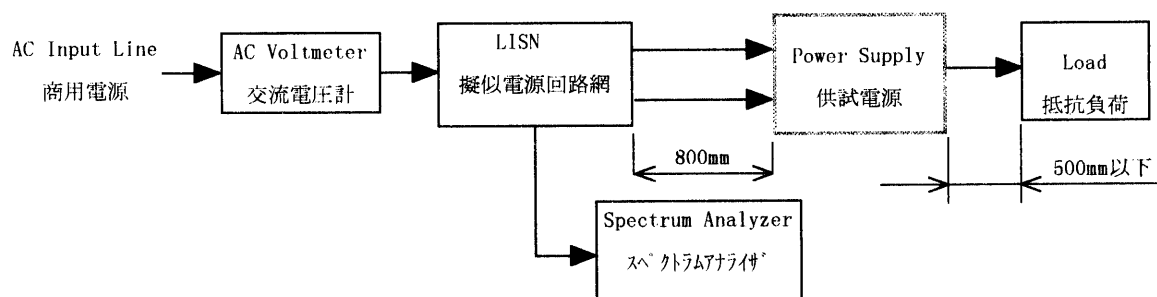


Figure D

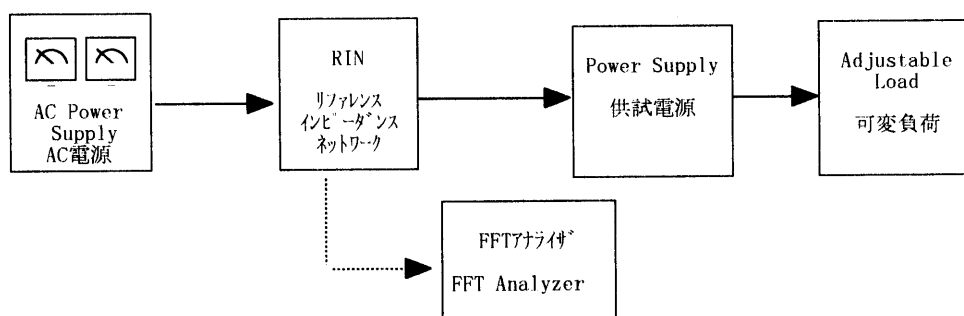


Figure E