



# TEST DATA OF RMC30A-2 (100V INPUT)

Regulated DC Power Supply

Date : June 3, 1999

Approved by : Kotyo Takemura  
Design Manager

Prepared by : Kazunari Asano  
Design Engineer

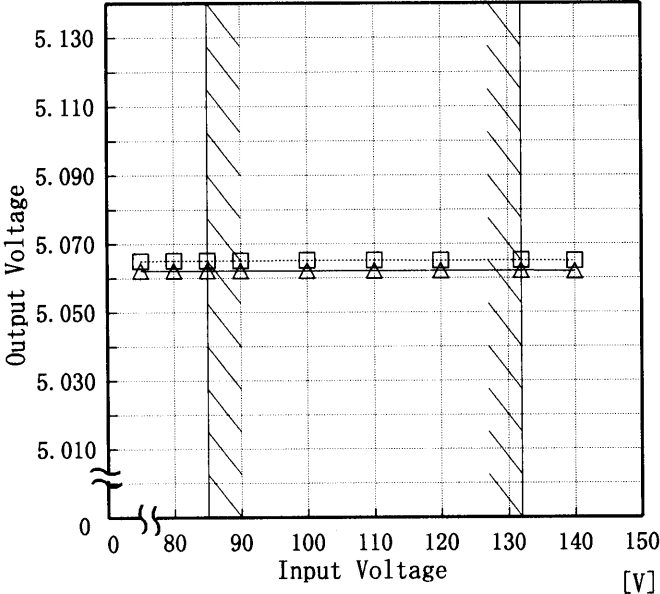
**コーセル株式会社**  
**COSEL CO., LTD.**

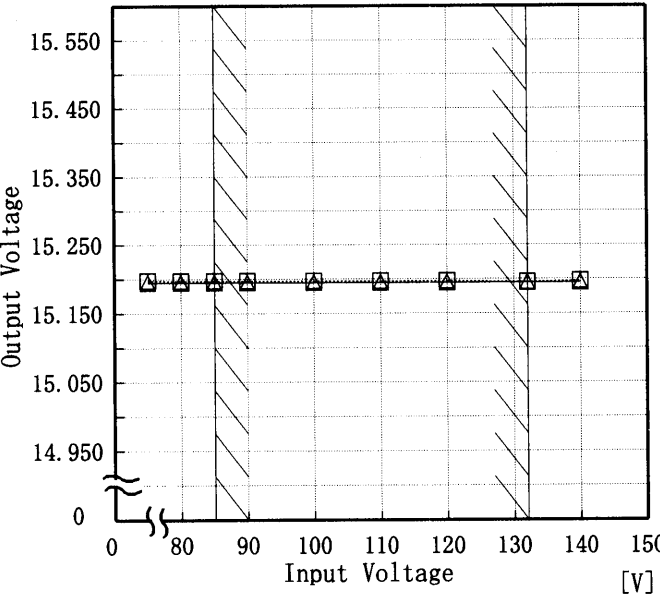
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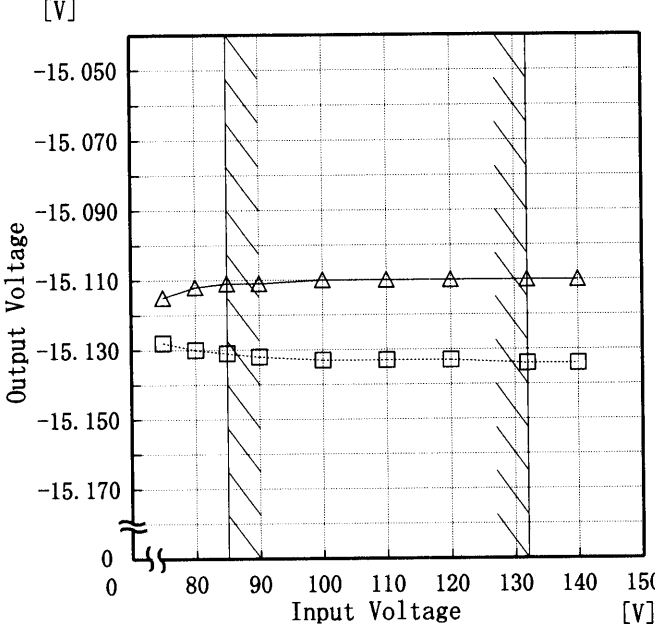
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Model		RMC30A-2																															
Item	Line Regulation  静的入力変動		Temperature 25℃ Testing Circuitry Figure A																														
Object	+5.0V3A																																
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Object	+15V0.50A																																
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Item	Line Regulation 静的入力変動																																	
Object	-15.0V0.5A																																	
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Object	+5.0V3A	2. Values																																																				
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Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																			
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# COSEL

Model	RMC30A-2	Temperature	25°C																																																			
Item	Instantaneous Interruption Compensation 瞬時停電保障	Testing Circuitry	Figure A																																																			
Object	+15.0V0.5A																																																					
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Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																			
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# COSEL

Model		RMC30A-2	Temperature Testing Circuitry	25℃ Figure A
Item		Instantaneous Interruption Compensation 瞬時停電保障		
Object		-15.0V0.5A		

1. Graph

△

—

Input Volt. 85 V

□

---

Input Volt. 100 V

○

---

Input Volt. 132 V

[mS]

Instantaneous Compensation Time

1000

100

10

1

0

0.2

0.4

0.6

Load Current

[A]

This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.

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

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。

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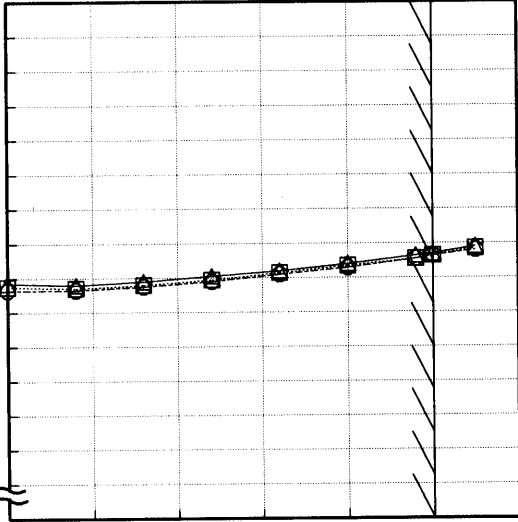
2. Values

Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
	Time [mS]		
0.00	—	—	—
0.08	27	39	72
0.16	23	36	66
0.24	22	32	63
0.32	21	31	59
0.40	19	29	56
0.48	18	27	54
0.50	15	27	53
0.55	15	26	51
—	—	—	—
—	—	—	—

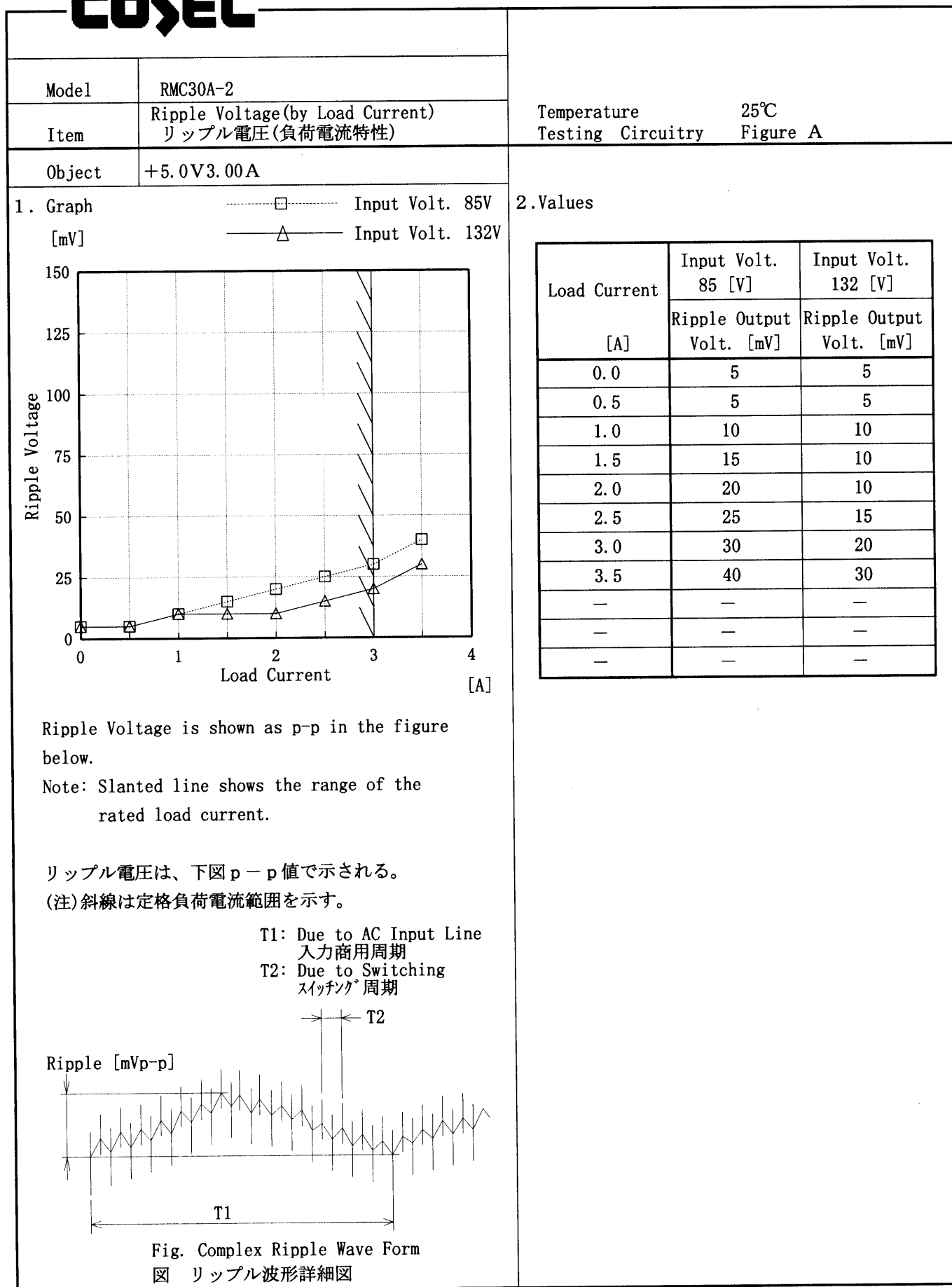
# COSEL

Model RMC30A-2		Temperature 25°C																																																
Item	Load Regulation 静的負荷変動	Testing Circuitry Figure A																																																
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Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																															
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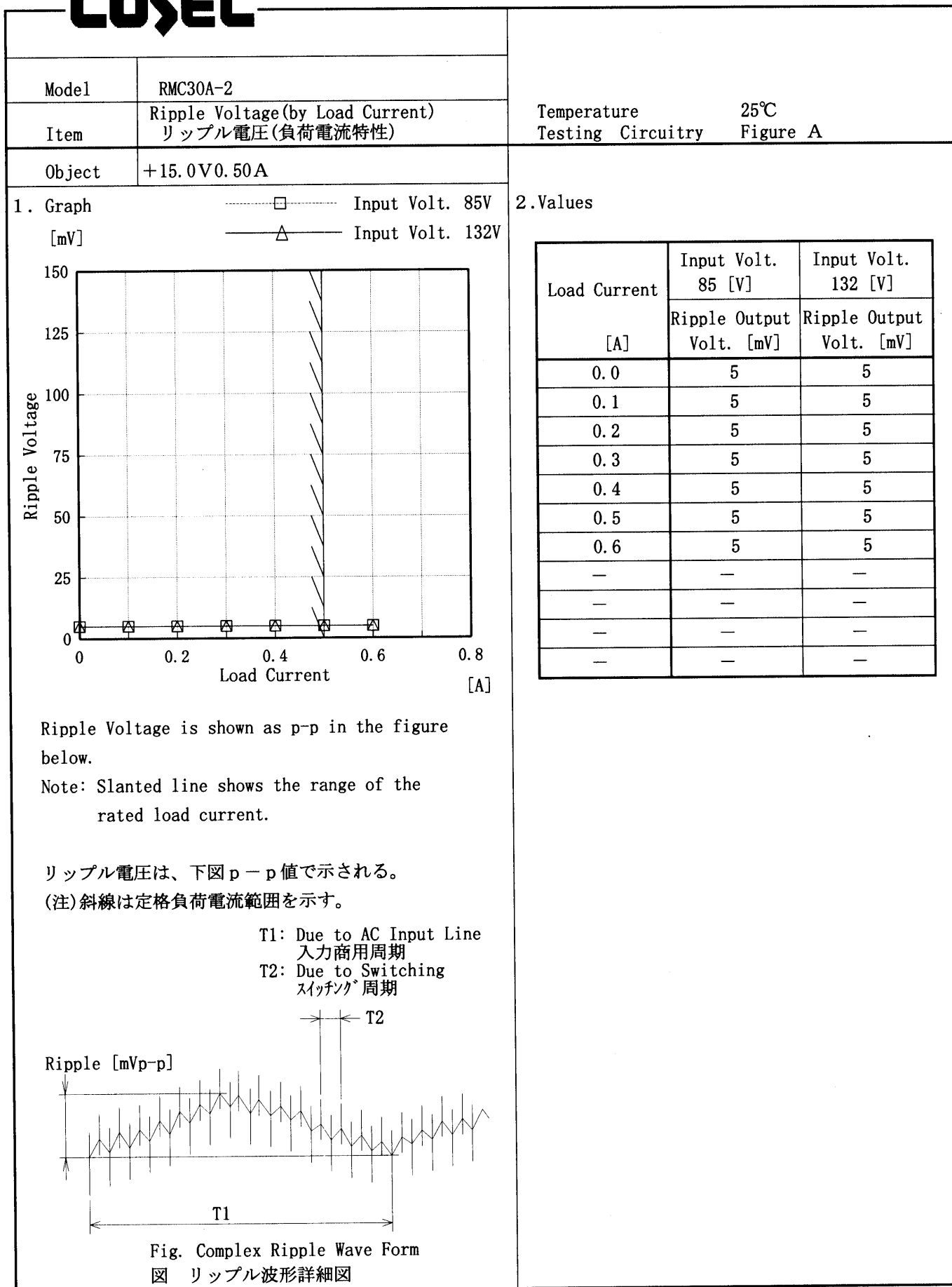
# COSEL

Model		RMC30A-2		Temperature		25℃																																															
Item		Load Regulation 静的負荷変動		Testing Circuitry		Figure A																																															
Object		-15.0V0.5A																																																			
1. Graph		<div><div><div>△</div><div>Input Volt. 85 V</div></div><div><div>□</div><div>Input Volt. 100 V</div></div><div><div>○</div><div>Input Volt. 132 V</div></div></div>		2. Values																																																	
<div><div><div>[V]</div><div><div>-14.990</div><div>-15.030</div><div>-15.070</div><div>-15.110</div><div>-15.150</div><div>-15.190</div><div>-15.230</div><div>0</div></div><div><div>Output Voltage</div><div></div></div></div><div><div><div>0</div><div>0.2</div><div>0.4</div><div>0.6</div></div><div><div>Load Current</div><div>[A]</div></div></div></div>		<table><tr><th></th><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><th>Load Current [A]</th><th>Output Volt. [V]</th><th>Output Volt. [V]</th><th>Output Volt. [V]</th></tr><tr><td>0.00</td><td>-15.133</td><td>-15.135</td><td>-15.137</td></tr><tr><td>0.08</td><td>-15.134</td><td>-15.136</td><td>-15.137</td></tr><tr><td>0.16</td><td>-15.132</td><td>-15.134</td><td>-15.135</td></tr><tr><td>0.24</td><td>-15.129</td><td>-15.131</td><td>-15.132</td></tr><tr><td>0.32</td><td>-15.126</td><td>-15.127</td><td>-15.128</td></tr><tr><td>0.40</td><td>-15.122</td><td>-15.123</td><td>-15.124</td></tr><tr><td>0.48</td><td>-15.117</td><td>-15.119</td><td>-15.119</td></tr><tr><td>0.50</td><td>-15.116</td><td>-15.117</td><td>-15.117</td></tr><tr><td>0.55</td><td>-15.112</td><td>-15.113</td><td>-15.114</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	Load Current [A]	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]	0.00	-15.133	-15.135	-15.137	0.08	-15.134	-15.136	-15.137	0.16	-15.132	-15.134	-15.135	0.24	-15.129	-15.131	-15.132	0.32	-15.126	-15.127	-15.128	0.40	-15.122	-15.123	-15.124	0.48	-15.117	-15.119	-15.119	0.50	-15.116	-15.117	-15.117	0.55	-15.112	-15.113	-15.114	—	—	—	—		
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# COSEL



# COSEL

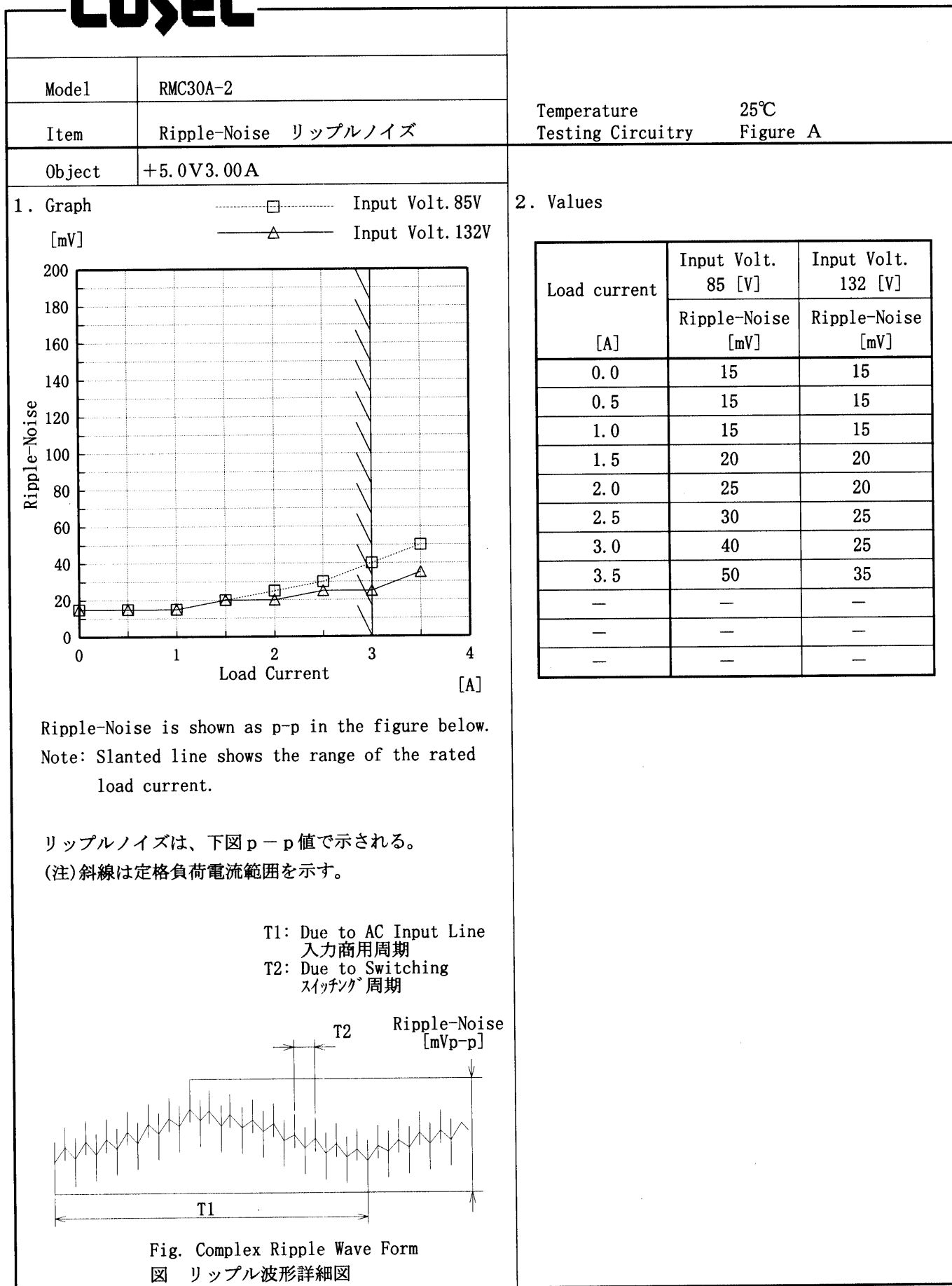




# COSEL

Model		RMC30A-2		Temperature		25℃																																							
Item		Ripple Voltage(by Load Current) リップル電圧(負荷電流特性)		Testing Circuitry		Figure A																																							
Object		-15.0V0.50A																																											
1. Graph				2.Values																																									
<div><div>-----□-----</div><div>Input Volt. 85V</div><div>-----△-----</div><div>Input Volt. 132V</div></div> <div><div>150</div><div>125</div><div>100</div><div>75</div><div>50</div><div>25</div><div>0</div></div> <div><div>Ripple Voltage</div><div>[mV]</div></div> <div><div>0</div><div>0.2</div><div>0.4</div><div>0.6</div><div>0.8</div></div> <div><div>Load Current</div><div>[A]</div></div> <td colspan="4"><table><tr><th rowspan="2">Load Current [A]</th><th>Input Volt. 85 [V]</th><th>Input Volt. 132 [V]</th></tr><tr><th>Ripple Output Volt. [mV]</th><th>Ripple Output Volt. [mV]</th></tr><tr><td>0.0</td><td>5</td><td>5</td></tr><tr><td>0.1</td><td>5</td><td>5</td></tr><tr><td>0.2</td><td>5</td><td>5</td></tr><tr><td>0.3</td><td>5</td><td>5</td></tr><tr><td>0.4</td><td>5</td><td>5</td></tr><tr><td>0.5</td><td>5</td><td>5</td></tr><tr><td>0.6</td><td>5</td><td>5</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></td>				<table><tr><th rowspan="2">Load Current [A]</th><th>Input Volt. 85 [V]</th><th>Input Volt. 132 [V]</th></tr><tr><th>Ripple Output Volt. [mV]</th><th>Ripple Output Volt. [mV]</th></tr><tr><td>0.0</td><td>5</td><td>5</td></tr><tr><td>0.1</td><td>5</td><td>5</td></tr><tr><td>0.2</td><td>5</td><td>5</td></tr><tr><td>0.3</td><td>5</td><td>5</td></tr><tr><td>0.4</td><td>5</td><td>5</td></tr><tr><td>0.5</td><td>5</td><td>5</td></tr><tr><td>0.6</td><td>5</td><td>5</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]	Input Volt. 85 [V]	Input Volt. 132 [V]	Ripple Output Volt. [mV]	Ripple Output Volt. [mV]	0.0	5	5	0.1	5	5	0.2	5	5	0.3	5	5	0.4	5	5	0.5	5	5	0.6	5	5	—	—	—	—	—	—	—	—	—	—	—	—
Load Current [A]	Input Volt. 85 [V]	Input Volt. 132 [V]																																											
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<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> <p>リップル電圧は、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> <div><div>T1: Due to AC Input Line 入力商用周期</div><div>T2: Due to Switching スイッチング周期</div></div> <div><div>→ T2</div><div>← T1</div></div> <div><div>Ripple [mVp-p]</div></div>				<p>Fig. Complex Ripple Wave Form</p> <p>図 リップル波形詳細図</p>																																									

# COSEL



# COSEL

Model		RMC30A-2	
Item		Ripple-Noise   リップルノイズ	
Object		+15.0V0.50A	
1. Graph		2. Values	

□

Input Volt. 85V

△

Input Volt. 132V

200

180

160

140

120

100

80

60

40

20

0

Ripple-Noise

[mV]

0

0.2

0.4

0.6

0.8

Load Current

[A]

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

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

リップルノイズは、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

T2

Ripple-Noise

[mVp-p]

T1

Fig. Complex Ripple Wave Form

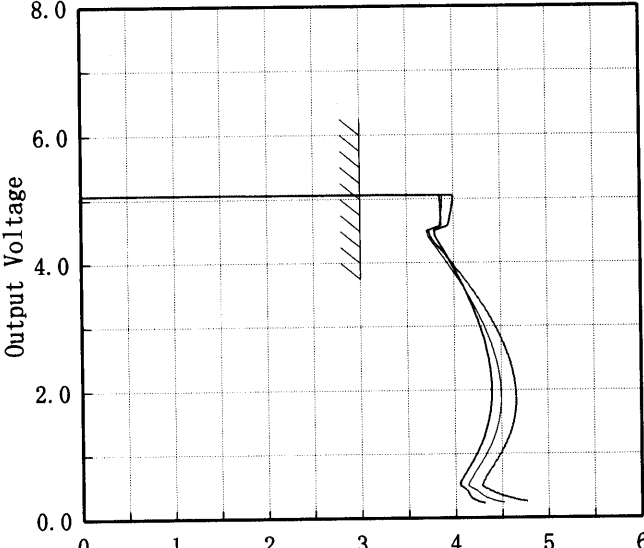
図   リップル波形詳細図

Load current [A]	Ripple-Noise [mV]	
	Input Volt. 85 [V]	Input Volt. 132 [V]
0.0	20	20
0.1	25	20
0.2	30	20
0.3	30	25
0.4	35	25
0.5	40	25
0.6	40	25
—	—	—
—	—	—
—	—	—
—	—	—

# COSEL

Model		RMC30A-2		Temperature		25℃																																							
Item		Ripple-Noise   リップルノイズ		Testing Circuitry		Figure A																																							
Object		-15.0V 0.50A																																											
1. Graph				2. Values																																									
<div><div><div>[mV]</div><div><div>Ripple-Noise is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current.</div></div><div><div>Input Volt. 85V</div><div>Input Volt. 132V</div></div></div></div>				<table><thead><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></thead><tbody><tr><td>0.0</td><td>20</td><td>20</td></tr><tr><td>0.1</td><td>30</td><td>30</td></tr><tr><td>0.2</td><td>30</td><td>30</td></tr><tr><td>0.3</td><td>35</td><td>30</td></tr><tr><td>0.4</td><td>35</td><td>30</td></tr><tr><td>0.5</td><td>35</td><td>30</td></tr><tr><td>0.6</td><td>35</td><td>30</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></tbody></table>				Load current [A]	Ripple-Noise [mV]		Input Volt. 85 [V]	Input Volt. 132 [V]	0.0	20	20	0.1	30	30	0.2	30	30	0.3	35	30	0.4	35	30	0.5	35	30	0.6	35	30	—	—	—	—	—	—	—	—	—	—	—	—
Load current [A]	Ripple-Noise [mV]																																												
	Input Volt. 85 [V]	Input Volt. 132 [V]																																											
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# COSEL

Model		RMC30A-2		Temperature		25℃	
Item		Overcurrent Protection 過電流保護		Testing Circuitry		Figure A	
Object		+5.0V3A		2. Values			
1. Graph		<div><div><div></div><div></div><div></div></div><div>Input Volt. 85 V Input Volt. 100 V Input Volt. 132 V</div></div>					
[V]							
Output Voltage		Load Current		Output Voltage		Load Current	
[V]		[A]		[V]		[A]	
8.0		6.0		5.00		3.85	
6.0		4.0		4.75		3.86	
4.0		2.0		4.50		3.74	
2.0		0.0		4.00		3.99	
0.0		0		3.50		4.24	
		1		3.00		4.46	
		2		2.50		4.59	
		3		2.00		4.66	
		4		1.50		4.62	
		5		1.00		4.48	
		6		0.50		4.29	
				0.00		4.77	
				</			

# COSEL

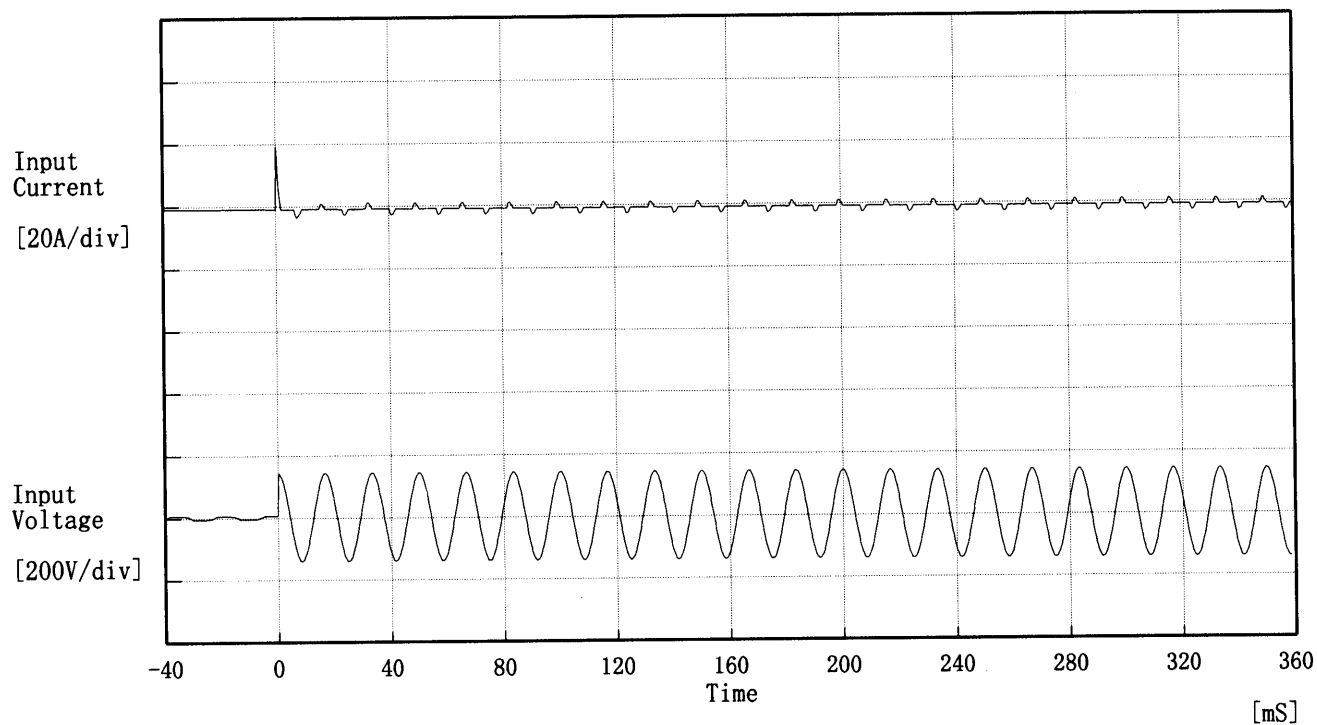
Model		RMC30A-2	Temperature25℃ Testing CircuitryFigure A																																																							
Item		Overcurrent Protection 過電流保護																																																								
Object		-15.0V0.50A																																																								
1. Graph			2. Values																																																							
<div><div><div></div><div></div><div></div></div><div>Input Volt. 85 V Input Volt. 100 V Input Volt. 132 V</div></div> <div><div>[V]</div><div>Output Voltage</div><div>[V]</div><div>Load Current</div><div>[A]</div></div>			<table><tr><th rowspan="2">Output Voltage [V]</th><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><th>Load Current [A]</th><th>Load Current [A]</th><th>Load Current [A]</th></tr><tr><td>-15.00</td><td>0.83</td><td>0.83</td><td>0.85</td></tr><tr><td>-14.25</td><td>0.88</td><td>0.87</td><td>0.89</td></tr><tr><td>-13.50</td><td>0.95</td><td>0.93</td><td>0.95</td></tr><tr><td>-12.00</td><td>1.06</td><td>1.04</td><td>1.04</td></tr><tr><td>-10.50</td><td>1.16</td><td>1.13</td><td>1.11</td></tr><tr><td>-9.00</td><td>1.25</td><td>1.21</td><td>1.19</td></tr><tr><td>-7.50</td><td>1.32</td><td>1.28</td><td>1.24</td></tr><tr><td>-6.00</td><td>1.38</td><td>1.33</td><td>1.29</td></tr><tr><td>-4.50</td><td>1.41</td><td>1.36</td><td>1.32</td></tr><tr><td>-3.00</td><td>1.42</td><td>1.36</td><td>1.33</td></tr><tr><td>-1.50</td><td>1.40</td><td>1.35</td><td>1.32</td></tr><tr><td>0.00</td><td>1.40</td><td>1.35</td><td>1.32</td></tr></table>	Output Voltage [V]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	Load Current [A]	Load Current [A]	Load Current [A]	-15.00	0.83	0.83	0.85	-14.25	0.88	0.87	0.89	-13.50	0.95	0.93	0.95	-12.00	1.06	1.04	1.04	-10.50	1.16	1.13	1.11	-9.00	1.25	1.21	1.19	-7.50	1.32	1.28	1.24	-6.00	1.38	1.33	1.29	-4.50	1.41	1.36	1.32	-3.00	1.42	1.36	1.33	-1.50	1.40	1.35	1.32	0.00	1.40	1.35	1.32
Output Voltage [V]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																							
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# COSEL

Model		RMC30A-2	Testing Circuitry Figure A																																															
Item		Overvoltage Protection 過電圧保護																																																
Object		+5.0V3A																																																
1. Graph		<div> <div> <div>△</div> <div>Input Volt. 85 V</div> </div> <div> <div>□</div> <div>Input Volt. 100 V</div> </div> <div> <div>○</div> <div>Input Volt. 132 V</div> </div> </div> <p>Operating Point [V]</p> <p>Ambient Temperature [°C]</p> <p>Load 0%</p> <p>Note: Slanted line shows the range of the rated ambient temperature.</p> <p>(注)斜線は定格周囲温度範囲を示す。</p>	2. Values																																															
		<table border="1"> <thead> <tr> <th>Ambient Temp. [°C]</th><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr> </thead> <tbody> <tr> <td>-20</td><td>6.47</td><td>6.47</td><td>6.48</td></tr> <tr> <td>-10</td><td>6.48</td><td>6.48</td><td>6.48</td></tr> <tr> <td>0</td><td>6.48</td><td>6.48</td><td>6.41</td></tr> <tr> <td>10</td><td>6.41</td><td>6.41</td><td>6.41</td></tr> <tr> <td>20</td><td>6.41</td><td>6.41</td><td>6.41</td></tr> <tr> <td>25</td><td>6.41</td><td>6.41</td><td>6.41</td></tr> <tr> <td>30</td><td>6.41</td><td>6.41</td><td>6.41</td></tr> <tr> <td>40</td><td>6.35</td><td>6.35</td><td>6.35</td></tr> <tr> <td>50</td><td>6.35</td><td>6.35</td><td>6.35</td></tr> <tr> <td>60</td><td>6.35</td><td>6.35</td><td>6.35</td></tr> <tr> <td>—</td><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>		Ambient Temp. [°C]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	-20	6.47	6.47	6.48	-10	6.48	6.48	6.48	0	6.48	6.48	6.41	10	6.41	6.41	6.41	20	6.41	6.41	6.41	25	6.41	6.41	6.41	30	6.41	6.41	6.41	40	6.35	6.35	6.35	50	6.35	6.35	6.35	60	6.35	6.35	6.35	—	—	—
Ambient Temp. [°C]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																															
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50	6.35	6.35	6.35																																															
60	6.35	6.35	6.35																																															
—	—	—	—																																															

**COSEL**

Model	RMC30A-2	Temperature 25°C Testing Circuitry Figure A
Item	Inrush Current 突入電流	
Object		



Input Voltage 100 V

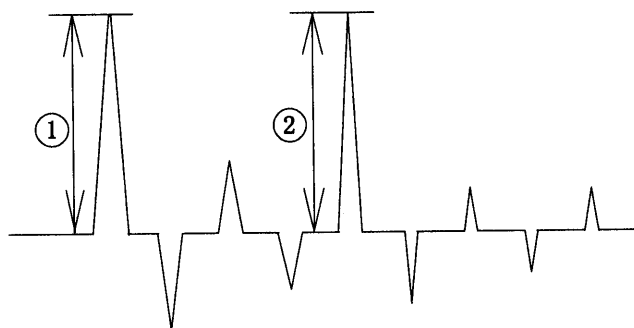
Frequency 60 Hz

Load 100 %

Inrush Current

① 19.24 [A]

② 2.73 [A]





# COSEL

Model	RMC30A-2	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Responce 動的負荷変動	
Object	+5.0V3.00A	

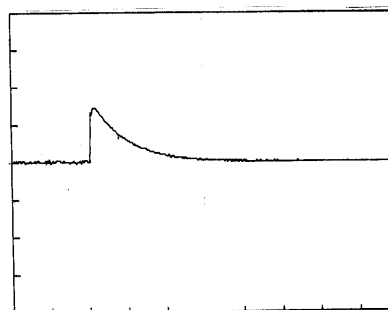
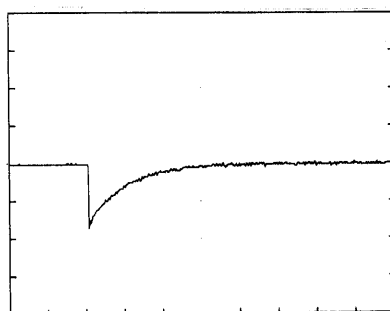
Input Volt. 100 V

Cycle 1000 mS

Load Current

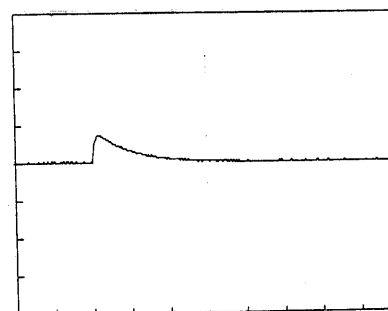
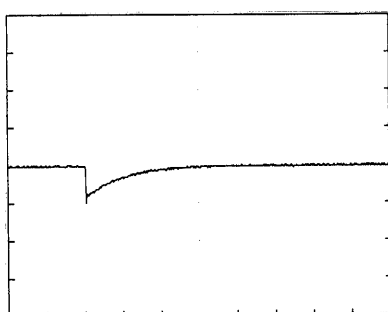
Load 0% ↔

Load 100 %



Load 0% ↔

Load 50 %



100 mV/div

10 mS/div

# COSEL

Model	RMC30A-2	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Responce 動的負荷変動	
Object	+15.0V 0.50A	

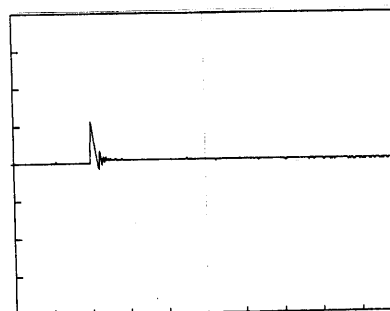
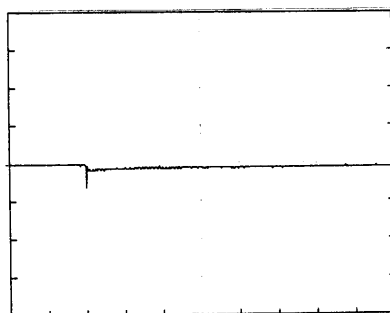
Input Volt. 100 V

Cycle 1000 mS

Load Current

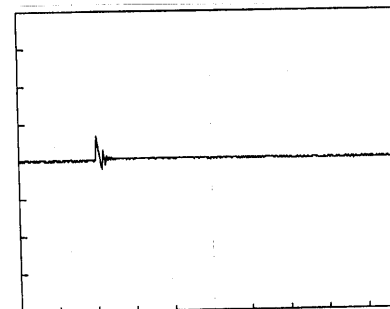
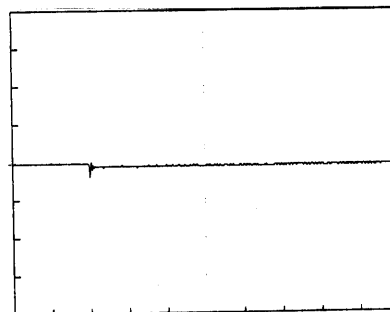
Load 0% ↔

Load 100 %



Load 0% ↔

Load 50 %



100 mV/div

10 mS/div

**COSEL**

Model	RMC30A-2	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Responce 動的負荷変動	
Object	-15.0V0.50A	

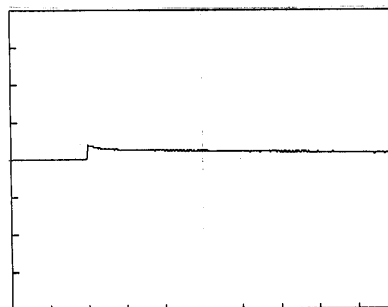
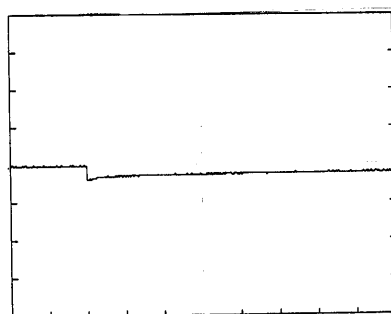
Input Volt. 100 V

Cycle 1000 mS

Load Current

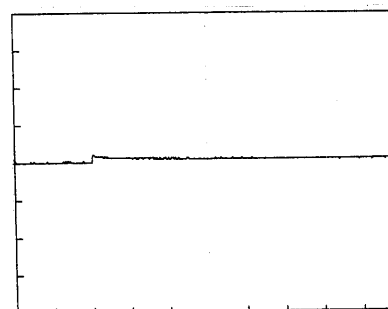
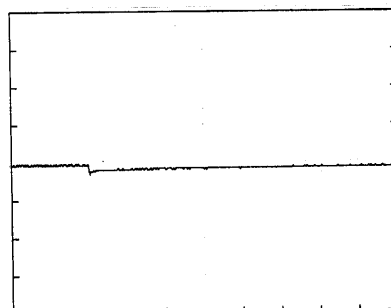
Load 0% ↔

Load 100 %



Load 0% ↔

Load 50 %



100 mV/div

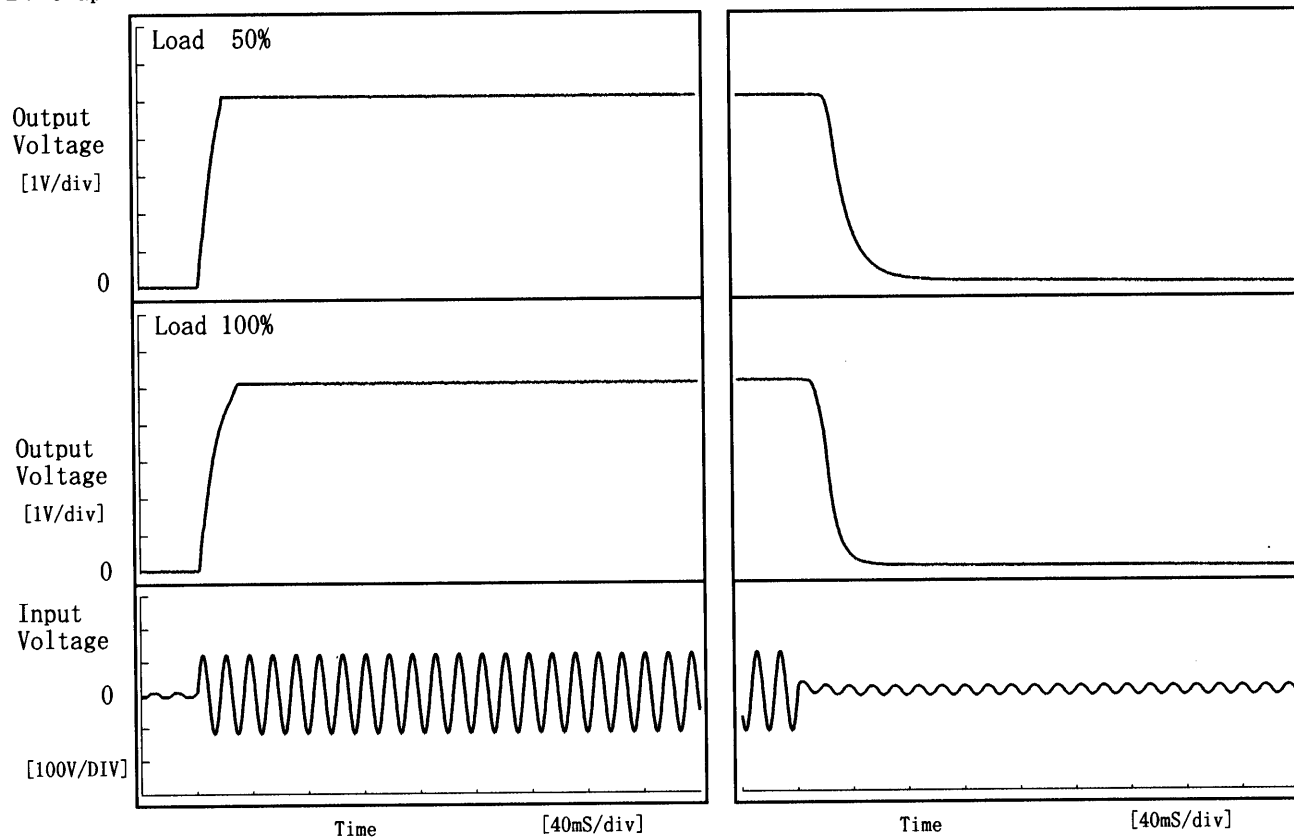
10 mS/div

**COSEL**

Model	RMC30A-2	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+5.0V3.00A		

## 1. Graph

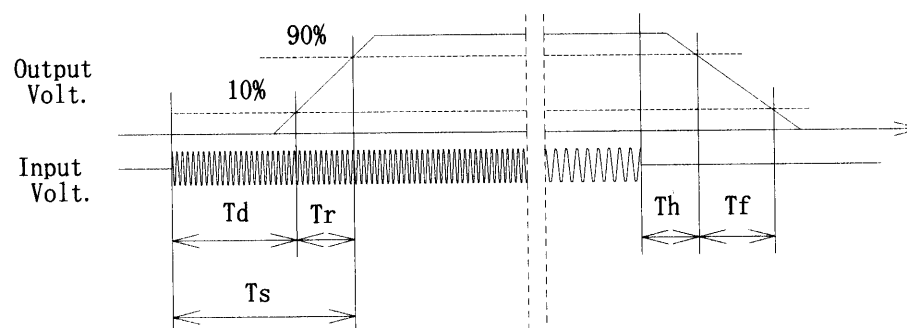
Input Volt. 85 V

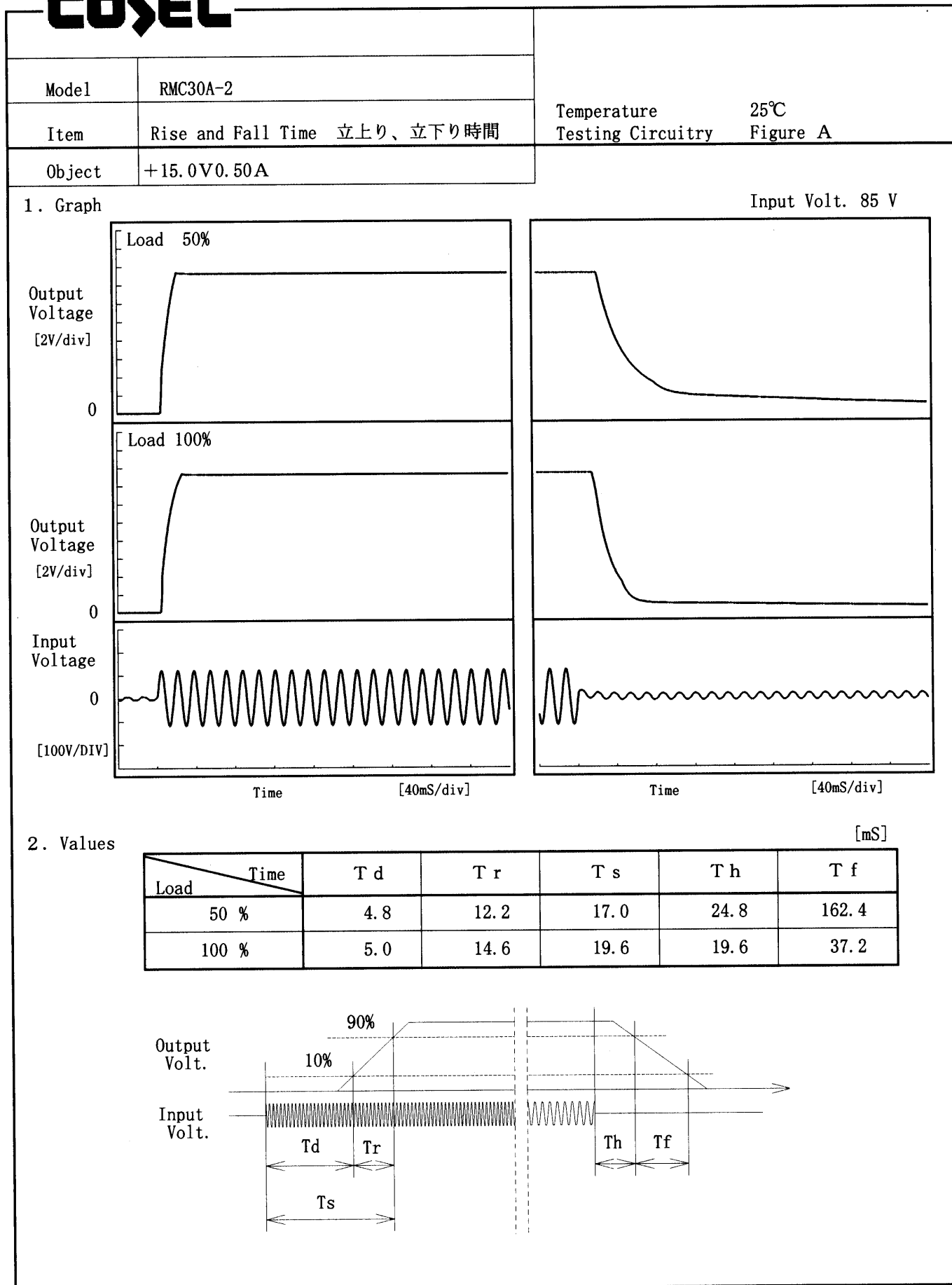


## 2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	3.2	14.4	17.6	26.0	32.4
100 %	3.2	20.8	24.0	16.8	20.6



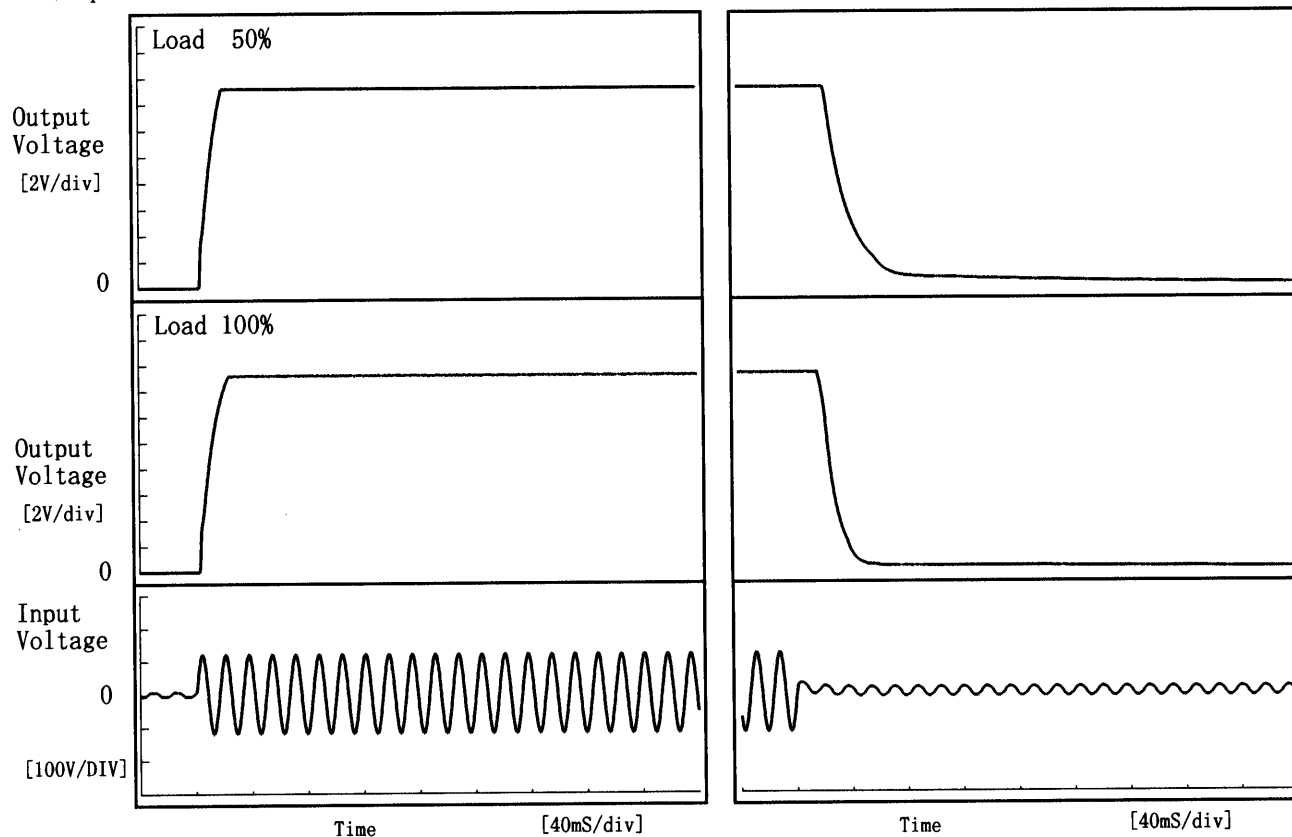
**COSEL**

# COSEL

Model	RMC30A-2	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	-15.0V0.50A		

## 1. Graph

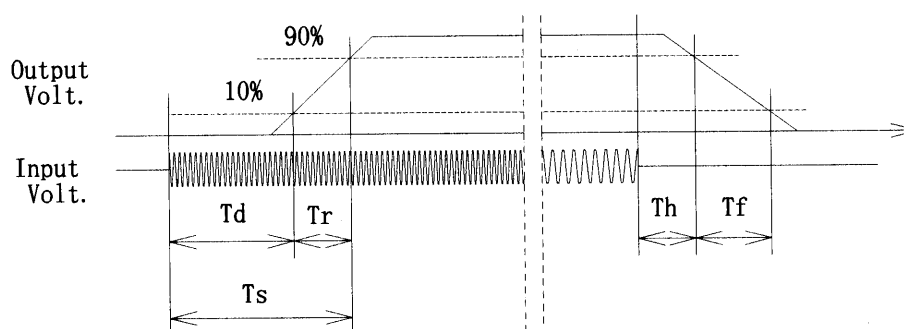
Input Volt. 85 V



## 2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	3.6	12.8	16.4	24.2	39.2
100 %	3.6	15.2	18.8	19.8	20.8



# COSEL

Model		RMC30A-2																																																					
Item		Ambient Temperature Drift 周囲温度変動																																																					
Object		+5.0V3.00A																																																					
1. Graph		2. Values																																																					
<div><div>△</div> Input Volt. 85.0V</div> <div><div>□</div> Input Volt. 100.0V</div> <div><div>○</div> Input Volt. 132.0V</div> <p>Output Voltage [V]</p> <p>Ambient Temperature [°C]</p> <p>Load 100%</p>		<table><tr><th>Temperature</th><th>Input Volt. 85.0[V]</th><th>Input Volt. 100.0[V]</th><th>Input Volt. 132.0[V]</th></tr><tr><th>[°C]</th><th>Output Volt. [V]</th><th>Output Volt. [V]</th><th>Output Volt. [V]</th></tr><tr><td>-20</td><td>5.071</td><td>5.071</td><td>5.071</td></tr><tr><td>-10</td><td>5.069</td><td>5.069</td><td>5.069</td></tr><tr><td>0</td><td>5.066</td><td>5.067</td><td>5.067</td></tr><tr><td>10</td><td>5.063</td><td>5.063</td><td>5.063</td></tr><tr><td>20</td><td>5.059</td><td>5.059</td><td>5.059</td></tr><tr><td>25</td><td>5.057</td><td>5.057</td><td>5.057</td></tr><tr><td>30</td><td>5.055</td><td>5.055</td><td>5.055</td></tr><tr><td>40</td><td>5.050</td><td>5.050</td><td>5.050</td></tr><tr><td>50</td><td>5.045</td><td>5.045</td><td>5.045</td></tr><tr><td>60</td><td>5.040</td><td>5.040</td><td>5.040</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>		Temperature	Input Volt. 85.0[V]	Input Volt. 100.0[V]	Input Volt. 132.0[V]	[°C]	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]	-20	5.071	5.071	5.071	-10	5.069	5.069	5.069	0	5.066	5.067	5.067	10	5.063	5.063	5.063	20	5.059	5.059	5.059	25	5.057	5.057	5.057	30	5.055	5.055	5.055	40	5.050	5.050	5.050	50	5.045	5.045	5.045	60	5.040	5.040	5.040	—	—	—	—
Temperature	Input Volt. 85.0[V]	Input Volt. 100.0[V]	Input Volt. 132.0[V]																																																				
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-20	5.071	5.071	5.071																																																				
-10	5.069	5.069	5.069																																																				
0	5.066	5.067	5.067																																																				
10	5.063	5.063	5.063																																																				
20	5.059	5.059	5.059																																																				
25	5.057	5.057	5.057																																																				
30	5.055	5.055	5.055																																																				
40	5.050	5.050	5.050																																																				
50	5.045	5.045	5.045																																																				
60	5.040	5.040	5.040																																																				
—	—	—	—																																																				
Object		+15V0.50A																																																					
1. Graph		2. Values																																																					
<div><div>△</div> Input Volt. 85.0V</div> <div><div>□</div> Input Volt. 100.0V</div> <div><div>○</div> Input Volt. 132.0V</div> <p>Output Voltage [V]</p> <p>Ambient Temperature [°C]</p> <p>Load 100%</p>		<table><tr><th>Temperature</th><th>Input Volt. 85.0[V]</th><th>Input Volt. 100.0[V]</th><th>Input Volt. 132.0[V]</th></tr><tr><th>[°C]</th><th>Output Volt. [V]</th><th>Output Volt. [V]</th><th>Output Volt. [V]</th></tr><tr><td>-20</td><td>15.134</td><td>15.134</td><td>15.134</td></tr><tr><td>-10</td><td>15.148</td><td>15.148</td><td>15.148</td></tr><tr><td>0</td><td>15.161</td><td>15.161</td><td>15.161</td></tr><tr><td>10</td><td>15.172</td><td>15.172</td><td>15.173</td></tr><tr><td>20</td><td>15.182</td><td>15.182</td><td>15.182</td></tr><tr><td>25</td><td>15.186</td><td>15.186</td><td>15.187</td></tr><tr><td>30</td><td>15.190</td><td>15.190</td><td>15.190</td></tr><tr><td>40</td><td>15.196</td><td>15.196</td><td>15.196</td></tr><tr><td>50</td><td>15.200</td><td>15.200</td><td>15.200</td></tr><tr><td>60</td><td>15.202</td><td>15.202</td><td>15.201</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>		Temperature	Input Volt. 85.0[V]	Input Volt. 100.0[V]	Input Volt. 132.0[V]	[°C]	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]	-20	15.134	15.134	15.134	-10	15.148	15.148	15.148	0	15.161	15.161	15.161	10	15.172	15.172	15.173	20	15.182	15.182	15.182	25	15.186	15.186	15.187	30	15.190	15.190	15.190	40	15.196	15.196	15.196	50	15.200	15.200	15.200	60	15.202	15.202	15.201	—	—	—	—
Temperature	Input Volt. 85.0[V]	Input Volt. 100.0[V]	Input Volt. 132.0[V]																																																				
[°C]	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]																																																				
-20	15.134	15.134	15.134																																																				
-10	15.148	15.148	15.148																																																				
0	15.161	15.161	15.161																																																				
10	15.172	15.172	15.173																																																				
20	15.182	15.182	15.182																																																				
25	15.186	15.186	15.187																																																				
30	15.190	15.190	15.190																																																				
40	15.196	15.196	15.196																																																				
50	15.200	15.200	15.200																																																				
60	15.202	15.202	15.201																																																				
—	—	—	—																																																				
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		RMC30A-2	
Item		Ambient Temperature Drift ・ 周囲温度変動	
Object		-15.0V0.50A	

1. Graph

△

Input Volt. 85V

□

Input Volt. 100V

○

Input Volt. 132V

[V]

-14.970

-15.010

-15.050

-15.090

-15.130

-15.170

-15.210

0 0

-30

-10

10

30

50

70

Ambient Temperature [°C]



**COSEL**

Model		RMC30A-2																																					
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧																																						
Object	+5.0V3A																																						
1. Graph																																							
[V]		Load 50% Load 100%																																					
2. Values																																							
<table><tr><th>Ambient Temp. [°C]</th><th>Load 50% Input Volt. [V]</th><th>Load 100% Input Volt. [V]</th></tr><tr><td>-20</td><td>44.6</td><td>58.5</td></tr><tr><td>-10</td><td>44.5</td><td>58.5</td></tr><tr><td>0</td><td>44.6</td><td>58.5</td></tr><tr><td>10</td><td>44.6</td><td>58.6</td></tr><tr><td>20</td><td>45.6</td><td>58.5</td></tr><tr><td>25</td><td>45.6</td><td>59.5</td></tr><tr><td>30</td><td>44.7</td><td>59.6</td></tr><tr><td>40</td><td>45.6</td><td>59.5</td></tr><tr><td>50</td><td>45.7</td><td>60.4</td></tr><tr><td>60</td><td>46.7</td><td>60.4</td></tr><tr><td>—</td><td>—</td><td>—</td></tr></table>				Ambient Temp. [°C]	Load 50% Input Volt. [V]	Load 100% Input Volt. [V]	-20	44.6	58.5	-10	44.5	58.5	0	44.6	58.5	10	44.6	58.6	20	45.6	58.5	25	45.6	59.5	30	44.7	59.6	40	45.6	59.5	50	45.7	60.4	60	46.7	60.4	—	—	—
Ambient Temp. [°C]	Load 50% Input Volt. [V]	Load 100% Input Volt. [V]																																					
-20	44.6	58.5																																					
-10	44.5	58.5																																					
0	44.6	58.5																																					
10	44.6	58.6																																					
20	45.6	58.5																																					
25	45.6	59.5																																					
30	44.7	59.6																																					
40	45.6	59.5																																					
50	45.7	60.4																																					
60	46.7	60.4																																					
—	—	—																																					

Object		+15V0.50A																																					
1. Graph																																							
[V]		Load 50% Load 100%																																					
2. Values																																							
<table><tr><th>Ambient Temp. [°C]</th><th>Load 50% Input Volt. [V]</th><th>Load 100% Input Volt. [V]</th></tr><tr><td>-20</td><td>50.6</td><td>57.6</td></tr><tr><td>-10</td><td>50.5</td><td>57.4</td></tr><tr><td>0</td><td>50.6</td><td>57.5</td></tr><tr><td>10</td><td>50.5</td><td>58.6</td></tr><tr><td>20</td><td>51.6</td><td>58.5</td></tr><tr><td>25</td><td>51.5</td><td>58.6</td></tr><tr><td>30</td><td>51.6</td><td>58.7</td></tr><tr><td>40</td><td>51.5</td><td>59.6</td></tr><tr><td>50</td><td>52.7</td><td>60.4</td></tr><tr><td>60</td><td>52.7</td><td>60.5</td></tr><tr><td>—</td><td>—</td><td>—</td></tr></table>				Ambient Temp. [°C]	Load 50% Input Volt. [V]	Load 100% Input Volt. [V]	-20	50.6	57.6	-10	50.5	57.4	0	50.6	57.5	10	50.5	58.6	20	51.6	58.5	25	51.5	58.6	30	51.6	58.7	40	51.5	59.6	50	52.7	60.4	60	52.7	60.5	—	—	—
Ambient Temp. [°C]	Load 50% Input Volt. [V]	Load 100% Input Volt. [V]																																					
-20	50.6	57.6																																					
-10	50.5	57.4																																					
0	50.6	57.5																																					
10	50.5	58.6																																					
20	51.6	58.5																																					
25	51.5	58.6																																					
30	51.6	58.7																																					
40	51.5	59.6																																					
50	52.7	60.4																																					
60	52.7	60.5																																					
—	—	—																																					
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

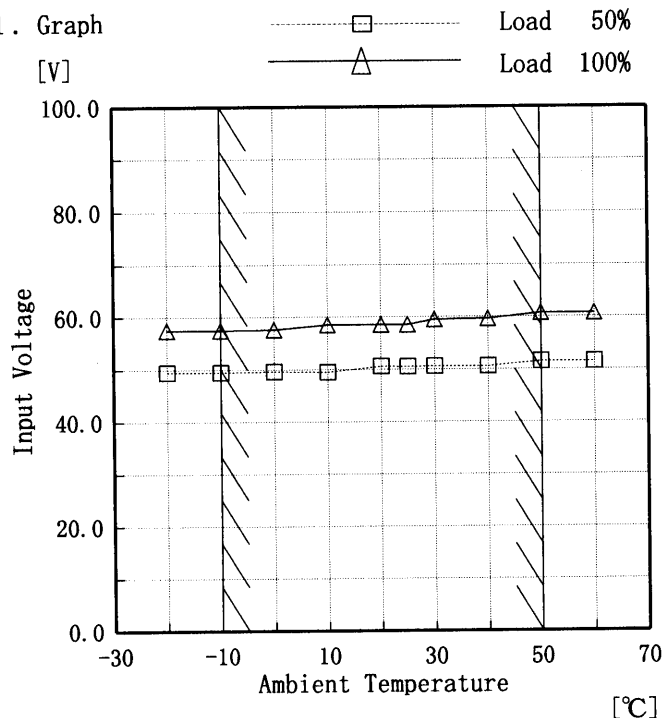
Model RMC30A-2

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

Object -15.0V0.50A

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 Temp. [°C]	Load 50%	Load 100%
	Input Volt. [V]	Input Volt. [V]
-20	50	58
-10	50	58
0	50	58
10	50	59
20	51	59
25	51	59
30	51	60
40	51	60
50	52	61
60	52	61
—	—	—

# COSEL

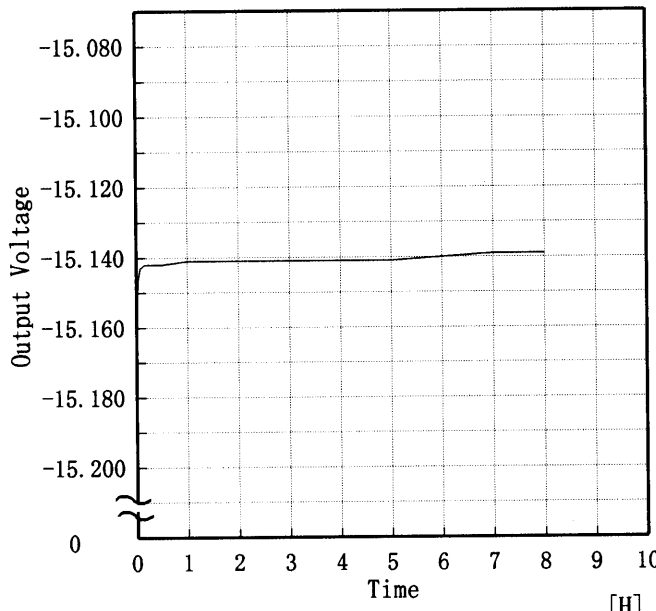
Model		RMC30A-2																																					
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)																																						
Object	+5.0V3.00A																																						
1. Graph		2. Values																																					
<div><div><div><div><div>-----□-----</div><div>Load 50%</div></div><div><div>-----△-----</div><div>Load 100%</div></div></div><div><div><div><div>[mV]</div><div>150</div><div>125</div><div>100</div><div>75</div><div>50</div><div>25</div><div>0</div></div><div><div><div><div>-30</div><div>-10</div><div>10</div><div>30</div><div>50</div><div>70</div></div><div>Ambient Temperature [°C]</div></div></div><div>Input Volt. 100 V</div></div></div></div></div>																																							
		<table><tr><td>Ambient Temp. [°C]</td><td>Load 50% Ripple Output Volt. [mV]</td><td>Load 100% Ripple Output Volt. [mV]</td></tr><tr><td>-20</td><td>80</td><td>150</td></tr><tr><td>-10</td><td>50</td><td>100</td></tr><tr><td>0</td><td>40</td><td>60</td></tr><tr><td>10</td><td>30</td><td>50</td></tr><tr><td>20</td><td>20</td><td>40</td></tr><tr><td>25</td><td>20</td><td>40</td></tr><tr><td>30</td><td>20</td><td>40</td></tr><tr><td>40</td><td>10</td><td>20</td></tr><tr><td>50</td><td>10</td><td>20</td></tr><tr><td>60</td><td>10</td><td>20</td></tr><tr><td>—</td><td>—</td><td>—</td></tr></table>		Ambient Temp. [°C]	Load 50% Ripple Output Volt. [mV]	Load 100% Ripple Output Volt. [mV]	-20	80	150	-10	50	100	0	40	60	10	30	50	20	20	40	25	20	40	30	20	40	40	10	20	50	10	20	60	10	20	—	—	—
Ambient Temp. [°C]	Load 50% Ripple Output Volt. [mV]	Load 100% Ripple Output Volt. [mV]																																					
-20	80	150																																					
-10	50	100																																					
0	40	60																																					
10	30	50																																					
20	20	40																																					
25	20	40																																					
30	20	40																																					
40	10	20																																					
50	10	20																																					
60	10	20																																					
—	—	—																																					
Object		+15V0.50A																																					
1. Graph		2. Values																																					
<div><div><div><div><div>-----□-----</div><div>Load 50%</div></div><div><div>-----△-----</div><div>Load 100%</div></div></div><div><div><div><div>150</div><div>125</div><div>100</div><div>75</div><div>50</div><div>25</div><div>0</div></div><div><div><div><div>-30</div><div>-10</div><div>10</div><div>30</div><div>50</div><div>70</div></div><div>Ambient Temperature [°C]</div></div></div><div>Input Volt. 100 V</div></div></div></div></div>																																							
		<table><tr><td>Ambient Temp. [°C]</td><td>Load 50% Ripple Output Volt. [mV]</td><td>Load 100% Ripple Output Volt. [mV]</td></tr><tr><td>-20</td><td>5</td><td>10</td></tr><tr><td>-10</td><td>5</td><td>10</td></tr><tr><td>0</td><td>5</td><td>5</td></tr><tr><td>10</td><td>5</td><td>5</td></tr><tr><td>20</td><td>5</td><td>5</td></tr><tr><td>25</td><td>5</td><td>5</td></tr><tr><td>30</td><td>5</td><td>5</td></tr><tr><td>40</td><td>5</td><td>5</td></tr><tr><td>50</td><td>5</td><td>5</td></tr><tr><td>60</td><td>5</td><td>5</td></tr><tr><td>—</td><td>—</td><td>—</td></tr></table>		Ambient Temp. [°C]	Load 50% Ripple Output Volt. [mV]	Load 100% Ripple Output Volt. [mV]	-20	5	10	-10	5	10	0	5	5	10	5	5	20	5	5	25	5	5	30	5	5	40	5	5	50	5	5	60	5	5	—	—	—
Ambient Temp. [°C]	Load 50% Ripple Output Volt. [mV]	Load 100% Ripple Output Volt. [mV]																																					
-20	5	10																																					
-10	5	10																																					
0	5	5																																					
10	5	5																																					
20	5	5																																					
25	5	5																																					
30	5	5																																					
40	5	5																																					
50	5	5																																					
60	5	5																																					
—	—	—																																					
<div>Note: Slanted line shows the range of the rated ambient temperature.</div> <div>(注) 斜線は定格周囲温度範囲を示す。</div>																																							



**COSEL**

COSEL			
Model	RMC30A-2	Temperature	25 ℃
Item	Time Lapse Drift 経時ドリフト	Testing Circuitry	Figure A
Object	+5.0V3.00A		
1. Graph		2.Values	
<div><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></div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# COSEL

COSEL																									
Model	RMC30A-2																								
Item	Time Lapse Drift 経時ドリフト	Temperature	25 ℃																						
		Testing Circuitry	Figure A																						
Object	-15.0V0.5A																								
1. Graph		2.Values																							
<div>[V]</div> <div></div> <div>Output Voltage [V]</div> <div>Time [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>-15.182</td></tr><tr><td>0.5</td><td>-15.142</td></tr><tr><td>1.0</td><td>-15.141</td></tr><tr><td>2.0</td><td>-15.141</td></tr><tr><td>3.0</td><td>-15.141</td></tr><tr><td>4.0</td><td>-15.141</td></tr><tr><td>5.0</td><td>-15.141</td></tr><tr><td>6.0</td><td>-15.140</td></tr><tr><td>7.0</td><td>-15.139</td></tr><tr><td>8.0</td><td>-15.139</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	-15.182	0.5	-15.142	1.0	-15.141	2.0	-15.141	3.0	-15.141	4.0	-15.141	5.0	-15.141	6.0	-15.140	7.0	-15.139	8.0	-15.139
Time since start [H]	Output Voltage [V]																								
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6.0	-15.140																								
7.0	-15.139																								
8.0	-15.139																								

# COSEL

Model		RMC30A-2	Testing Circuitry Figure A
Item		Output Voltage Accuracy 定電圧精度	

## 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 : 85.0~132.0 V

Load Current (AVR 1) : 0.00~3.00 A (AVR 2) : 0.00~0.50 A (AVR 3) : 0.00~0.50 A

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

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

## 定電圧精度

周囲温度、入力電圧、負荷を下記仕様内で、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 85.0~132.0 V

負荷電流 (AVR 1) 0.00~3.00 A (AVR 2) : 0.00~0.50 A (AVR 3) : 0.00~0.50 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) =  $\frac{\text{変動値}}{\text{定格出力電圧}} \times 100$

Object		+5.0V3.00A				
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	0.000	5.080	±15	±0.3
Minimum Voltage	50	132.0	3.000	5.050		

Object		+15V0.50A				
Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy(Ration) [%]
Maximum Voltage	50	85.0	0.00	15.210	±28	±0.2
Minimum Voltage	-10	85.0	0.00	15.155		

Object		-15V0.50A				
Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy(Ration) [%]
Maximum Voltage	-10	132.0	0.00	-15.224	±88	±0.6
Minimum Voltage	50	132.0	0.50	-15.048		

# COSEL

COSEL

Model	RMC30A-2	Testing Circuitry	Figure A
Item	Condensation 結露特性		
Object	+5.0V3A		

1. Condensation test

Testing procedure is as follows.

- ① Keeping and cooling the unit in a tank at -10℃ for an hour with the input off.
- ② Taking it out of the tank and dewing itself in a room where the temperature is 25℃ and the humidity is 40%RH.
- ③ Testing electrical characteristics of the unit to confirm there be no fault.

1. 結露特性試験

入力を切った状態で、恒温槽で－10℃に冷却しておき、約1時間後に恒温槽から取り出し、室温25℃、湿度40%RHの状態におき結露させ、その電気的特性の測定を行い、異常のないことを確認する。

2. Values

Item	Data	Testing Conditions
Output Voltage [V]	5.062	Input Volt.: 100V, Load Current:3A
Line Regulation [mV]	1	Input Volt.: 85～132V, Load Current:3A
Load Regulation [mV]	6	Input Volt.: 100V, Load Current:0～3A





# COSEL

COSEL

Model	RMC30A-2	Testing Circuitry	Figure A
Item	Condensation 結露特性		
Object	-15.0V0.5A		

1. Condensation test

Testing procedure is as follows.

① Keeping and cooling the unit in a tank at -10℃ for an hour with the input off.

② Taking it out of the tank and dewing itself in a room where the temperature is 25℃ and the humidity is 40%RH.

③ Testing electrical characteristics of the unit to confirm there be no fault.

1. 結露特性試験

入力を切った状態で、恒温槽で－10℃に冷却しておき、約1時間後に恒温槽から取り出し、室温25℃、湿度40%RHの状態におき結露させ、その電気的特性の測定を行い、異常のないことを確認する。

Item	Data	Testing Conditions
Output Voltage [V]	-15.117	Input Volt.: 100V, Load Current:0.5A
Line Regulation [mV]	1	Input Volt.: 85～132V, Load Current:0.5A
Load Regulation [mV]	18	Input Volt.: 100V, Load Current:0.0～0.5A

**COSEL**

Model	RMC30A-2	Temperature	25°C
Item	Leakage Current 漏洩電流	Testing Circuitry	Figure A
Object	_____		

## 1. Results

Standards	Leakage Current [mA]		
	Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]
(A) DENTORI	0.16	0.19	0.25
(B) IEC60950	0.15	0.18	0.24

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.

交流入力の一相について測定し、その大きい方を漏洩電流測定値とする。

# COSEL

Model	RMC30A-2
Item	Conducted Emission 雑音端子電圧
Object	

Testing Circuitry Figure D

## 1. Graph

## Remarks

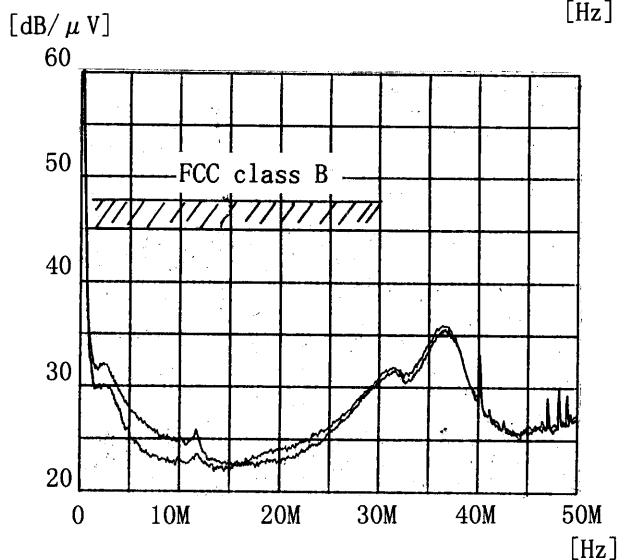
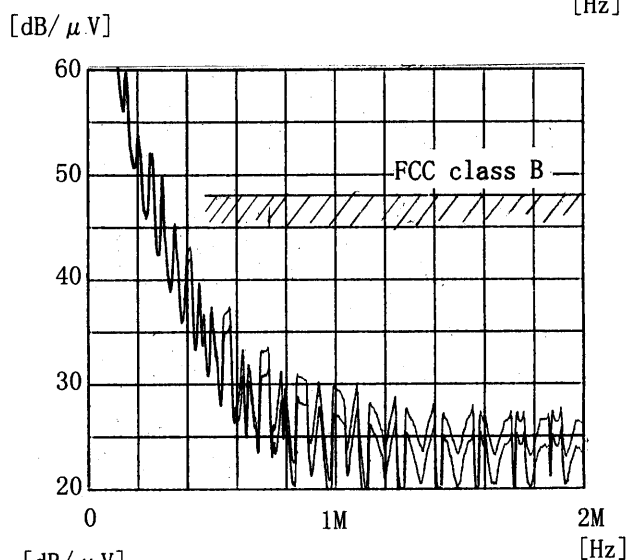
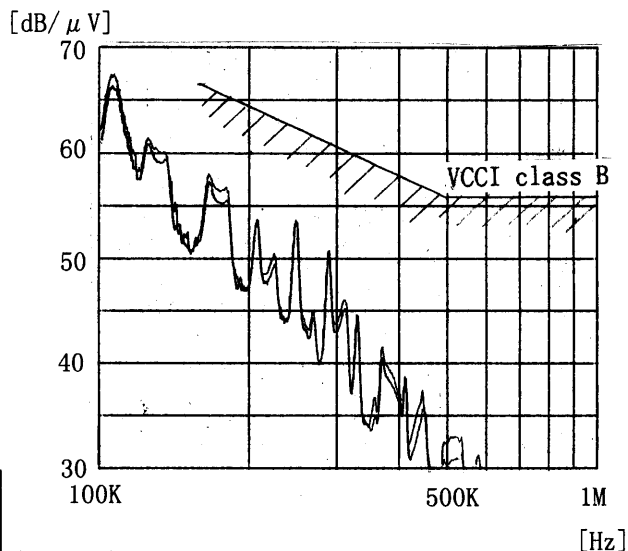
Input Volt. 120 V(VCCI:100V)

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



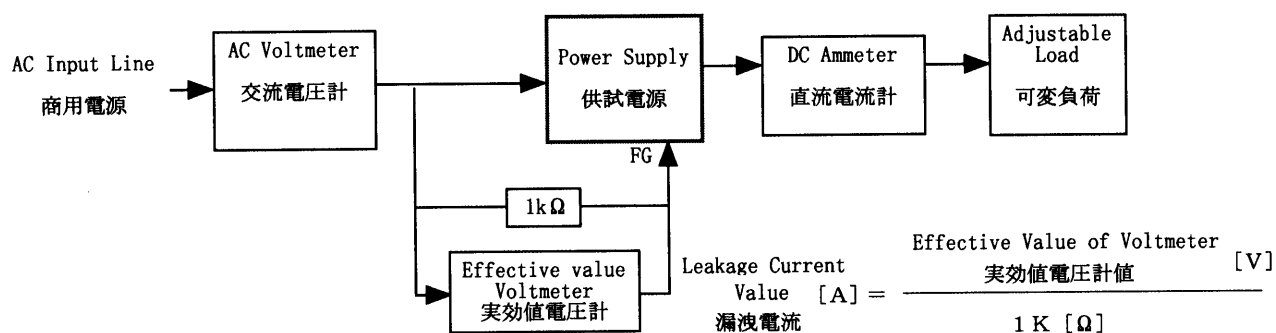
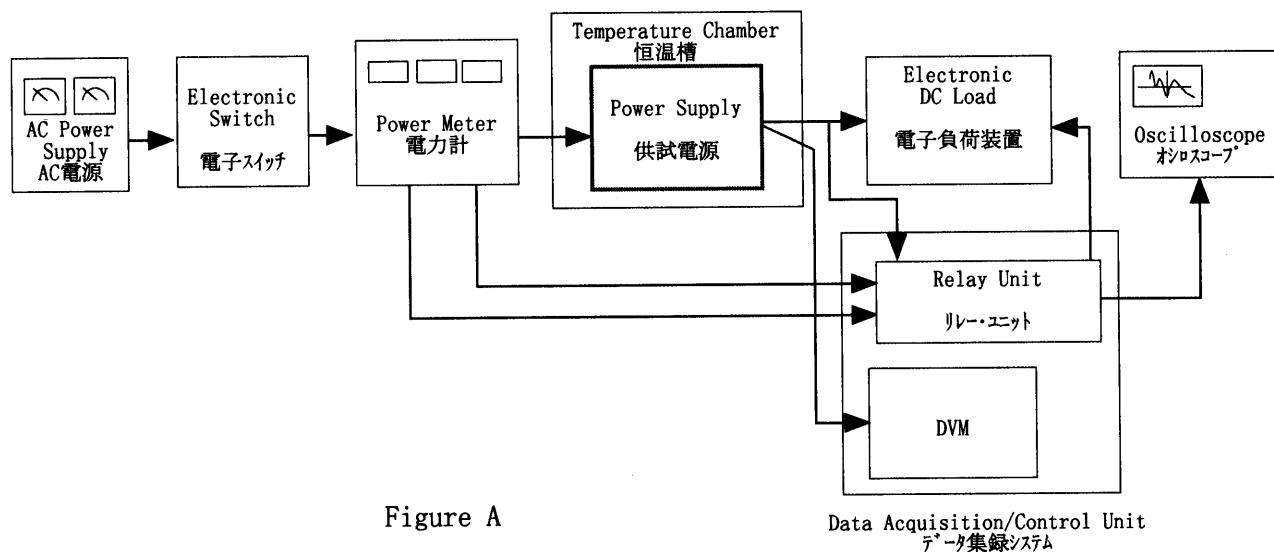


Figure B (DENTORI)

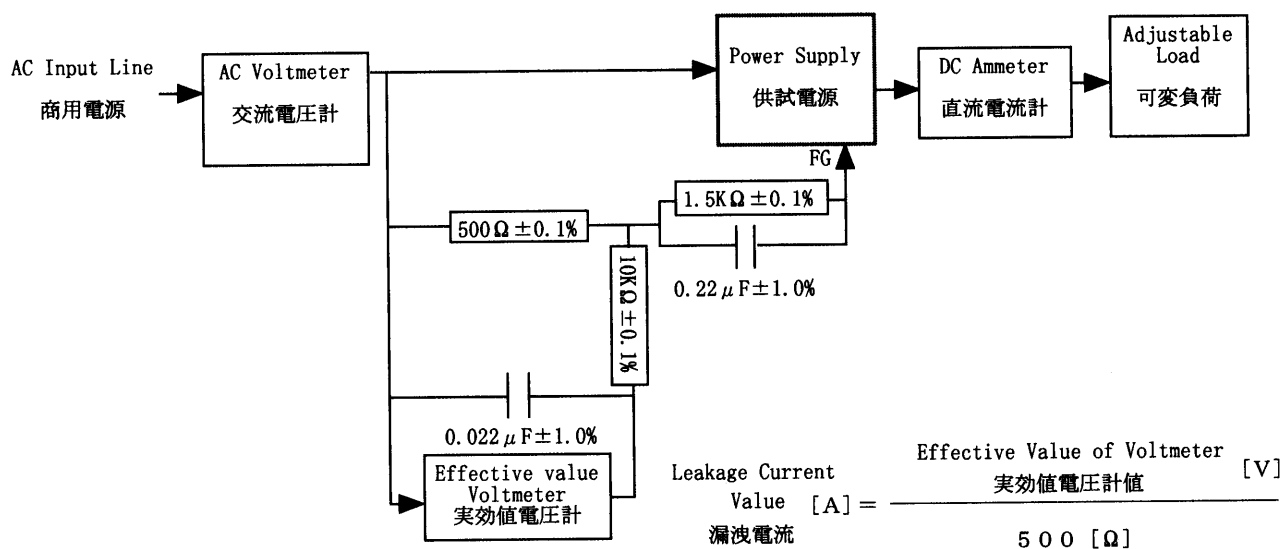


Figure B (IEC 60950)

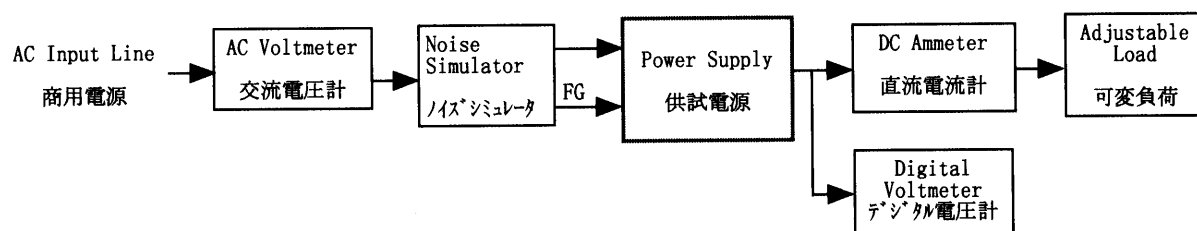


Figure C

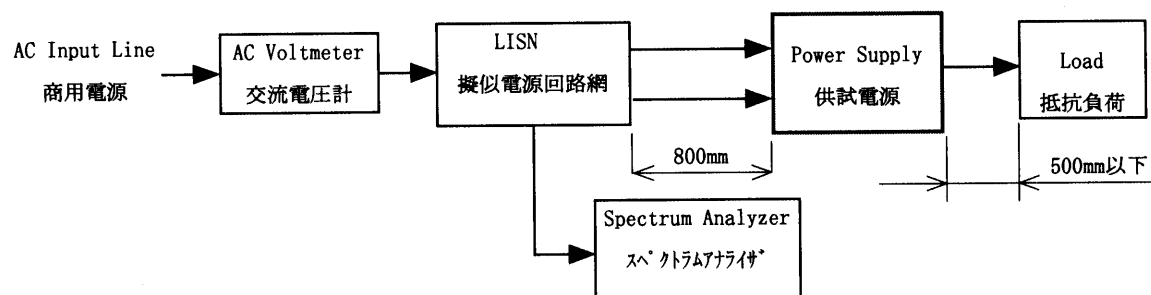


Figure D

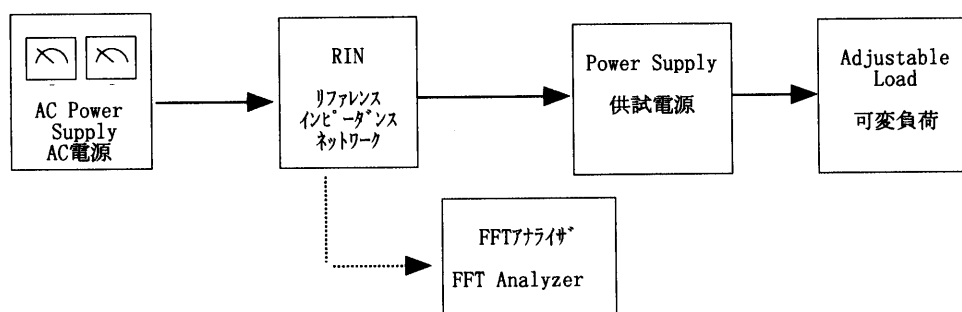


Figure E