

TEST DATA OF MGW152415

Regulated DC Power Supply
September 16, 2010

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Kazunari Asano Design Manager

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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)	10
10.Ripple-Noise	12
11.Ripple Voltage (by Ambient Temperature)	14
12.Ambient Temperature Drift	15
13.Output Voltage Accuracy	16
14.Time Lapse Drift	17
15.Rise and Fall Time	18
16.Minimum Input Voltage for Regulated Output Voltage	20
17.Overcurrent Protection	21
18.Figure of Testing Circuitry	22

(Final Page 22)

Model	MGW152415		
Item	Input Current (by Input Voltage)	Temperature	25°C
Object		Testing Circuitry	Figure A
1.Graph		2.Values	
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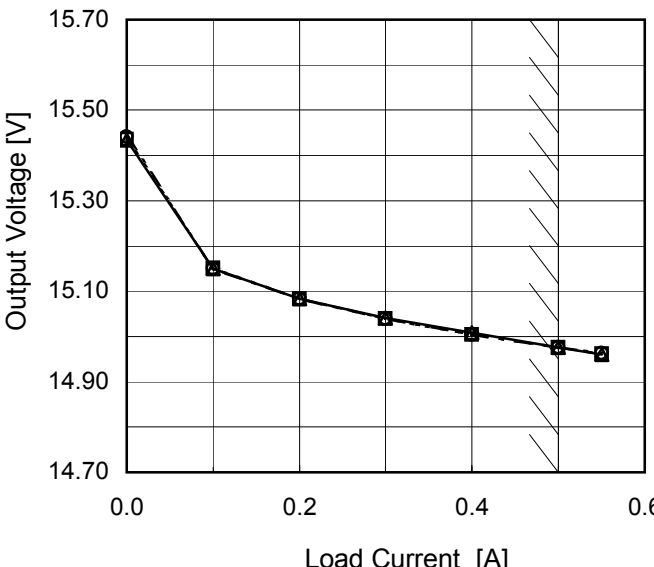
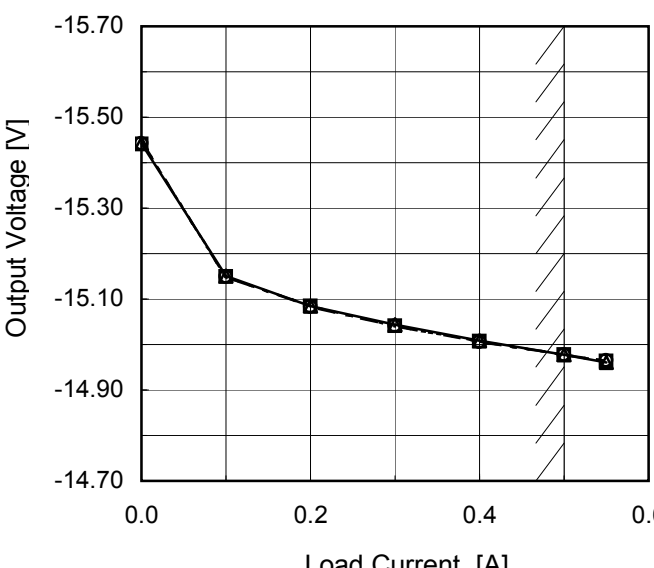
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Input Voltage [V]	Efficiency [%]																																		
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Model	MGW152415																																																					
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Load Ration [%]	Efficiency [%]																																																					
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Model	MGW152415																																
Item	Line Regulation	Temperature	25°C																														
Object	+15V0.5A	Testing Circuitry	Figure A																														
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Note: Slanted line shows the range of the rated input voltage.

Model	MGW152415																																																					
Item	Load Regulation	Temperature	25°C																																																			
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Note: Slanted line shows the range of the rated load current.																																																						

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Model	MGW152415	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Response	
Object	+15V0.5A	

Input Volt. 24 V

Other output current rated

Cycle 1000 ms

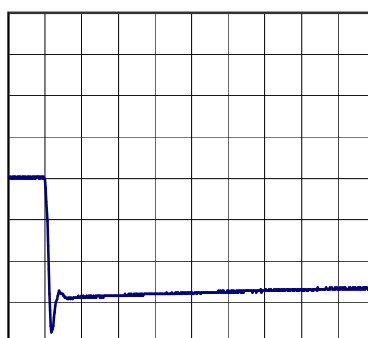
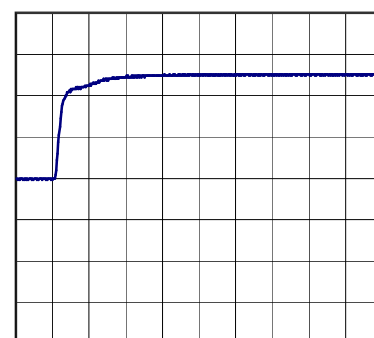
 $t_1, t_2 = 50\mu\text{s}$

Load Current

Min. Load (0A) \longleftrightarrow

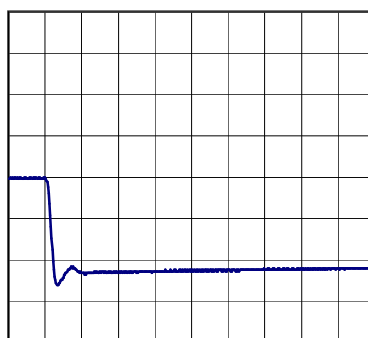
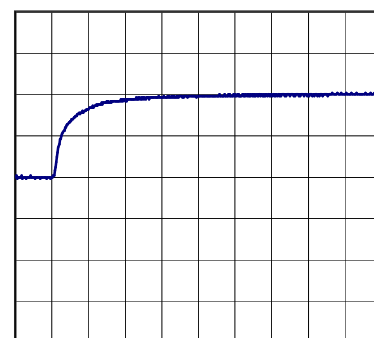
Load 100% (0.5A)

200mV/div

200 μs /div200 μs /divMin. Load (0A) \longleftrightarrow

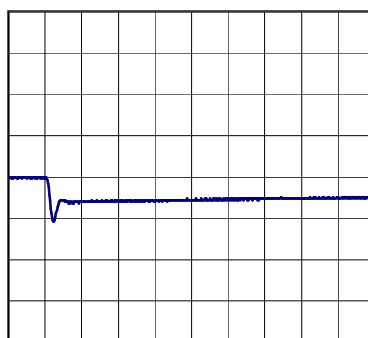
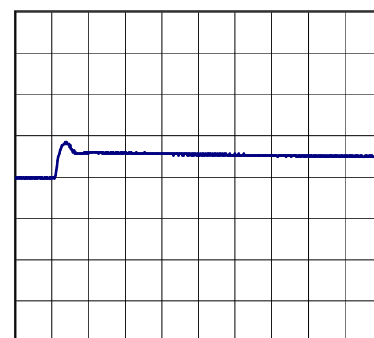
Load 50% (0.25A)

200mV/div

200 μs /div200 μs /divLoad 50% (0.25A) \longleftrightarrow

Load 100% (0.5A)

200mV/div

200 μs /div200 μs /div



Model	MGW152415	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Response	
Object	-15V0.5A	

Input Volt. 24 V

Other output current rated

Cycle 1000 ms

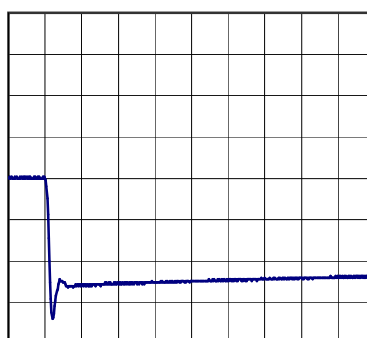
$t_1, t_2 = 50\mu\text{s}$



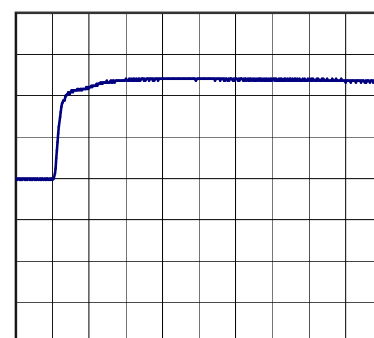
Min. Load (0A) \longleftrightarrow

Load 100% (0.5A)

200mV/div



200 μs /div

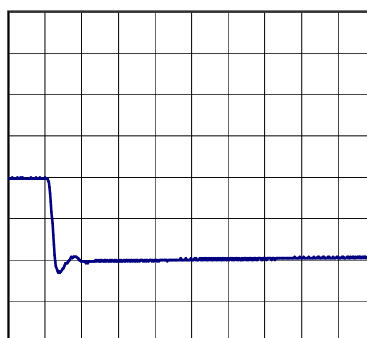


200 μs /div

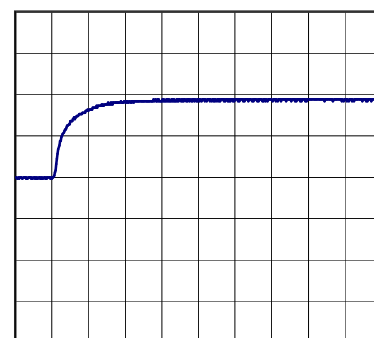
Min. Load (0A) \longleftrightarrow

Load 50% (0.25A)

200mV/div



200 μs /div

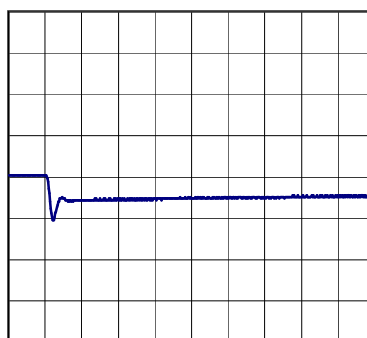


200 μs /div

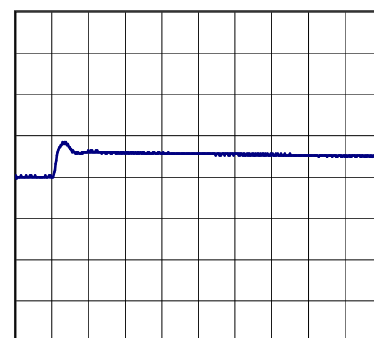
Load 50% (0.25A) \longleftrightarrow

Load 100% (0.5A)

200mV/div



200 μs /div



200 μs /div

Model	MGW152415																																								
Item	Ripple Voltage (by Load Current)	Temperature	25°C																																						
		Testing Circuitry	Figure B																																						
Object	+15V0.5A																																								
1.Graph		2.Values																																							
<div><div><div>—△—</div><div>Input Volt.</div><div>18V</div></div><div><div>- - ○ - -</div><div>Input Volt.</div><div>36V</div></div></div> <p>Ripple Voltage [mV]</p> <p>Load Current [A]</p>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Input Volt. 18 [V]</th><th>Input Volt. 36 [V]</th></tr><tr><td>0.00</td><td>6</td><td>7</td></tr><tr><td>0.10</td><td>8</td><td>10</td></tr><tr><td>0.20</td><td>11</td><td>12</td></tr><tr><td>0.30</td><td>14</td><td>14</td></tr><tr><td>0.40</td><td>17</td><td>17</td></tr><tr><td>0.50</td><td>18</td><td>19</td></tr><tr><td>0.55</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></table> <p>-15V: Rated output current</p>		Load Current [A]	Ripple Voltage [mV]		Input Volt. 18 [V]	Input Volt. 36 [V]	0.00	6	7	0.10	8	10	0.20	11	12	0.30	14	14	0.40	17	17	0.50	18	19	0.55	20	20	--	-	-	--	-	-	--	-	-	--	-	-
Load Current [A]	Ripple Voltage [mV]																																								
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<p>Measured by 100 MHz Oscilloscope. Ripple Voltage is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current.</p>																																									
<p>Ripple [mVp-p]</p> <p>Fig.Complex Ripple Wave Form</p>																																									

- 10 -

BC-10464

Model		MGW152415		Temperature 25°C	
Item		Ripple Voltage (by Load Current)		Testing Circuitry Figure B	
Object		-15V0.5A			
1.Graph				2.Values	
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Model		MGW152415																																							
Item		Ripple-Noise																																							
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1.Graph		2.Values																																							
<div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div>Input Volt.</div><div>18V</div></div><div><div>Input Volt.</div><div>36V</div></div></div><div><p>Ripple Voltage [mV]</p><p>Load Current [A]</p></div></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple-Noise [mV]</th></tr><tr><th>Input Volt. 18 [V]</th><th>Input Volt. 36 [V]</th></tr><tr><td>0.00</td><td>6</td><td>7</td></tr><tr><td>0.10</td><td>10</td><td>10</td></tr><tr><td>0.20</td><td>13</td><td>13</td></tr><tr><td>0.30</td><td>16</td><td>16</td></tr><tr><td>0.40</td><td>19</td><td>19</td></tr><tr><td>0.50</td><td>21</td><td>21</td></tr><tr><td>0.55</td><td>23</td><td>22</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> <p>-15V: Rated output current</p>		Load Current [A]	Ripple-Noise [mV]		Input Volt. 18 [V]	Input Volt. 36 [V]	0.00	6	7	0.10	10	10	0.20	13	13	0.30	16	16	0.40	19	19	0.50	21	21	0.55	23	22	--	-	-	--	-	-	--	-	-	--	-	-
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<p>Measured by 100 MHz Oscilloscope. Ripple-Noise is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current.</p> <div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><p>Ripple Noise[mVp-p]</p></div></div> <p>Fig.Complex Ripple Noise Wave Form</p>																																									

Model		MGW152415		Temperature 25°C																																							
Item		Ripple-Noise		Testing Circuitry Figure B																																							
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<div><div><div>—△—</div><div>Input Volt.</div><div>18V</div></div><div><div>-.-○-.-</div><div>Input Volt.</div><div>36V</div></div></div> <p>Ripple Voltage [mV]</p> <p>Load Current [A]</p>				<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple-Noise [mV]</th></tr><tr><th>Input Volt. 18 [V]</th><th>Input Volt. 36 [V]</th></tr><tr><td>0.00</td><td>12</td><td>12</td></tr><tr><td>0.10</td><td>15</td><td>15</td></tr><tr><td>0.20</td><td>17</td><td>15</td></tr><tr><td>0.30</td><td>18</td><td>17</td></tr><tr><td>0.40</td><td>19</td><td>18</td></tr><tr><td>0.50</td><td>20</td><td>19</td></tr><tr><td>0.55</td><td>20</td><td>19</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> <p>+15V: Rated output current</p>		Load Current [A]	Ripple-Noise [mV]		Input Volt. 18 [V]	Input Volt. 36 [V]	0.00	12	12	0.10	15	15	0.20	17	15	0.30	18	17	0.40	19	18	0.50	20	19	0.55	20	19	--	-	-	--	-	-	--	-	-	--	-	-
Load Current [A]	Ripple-Noise [mV]																																										
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Model	MGW152415																																								
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Object	+15V0.5A																																								
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<div><div><div>---□---</div><div>Load 50%</div></div><div><div>—△—</div><div>Load 100%</div></div></div> <p>Ripple Voltage [mV]</p> <p>Ambient Temperature [°C]</p> <p>Input Volt. 24V</p>		<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>-60</td><td>17</td><td>19</td></tr><tr><td>-40</td><td>16</td><td>17</td></tr><tr><td>-20</td><td>18</td><td>20</td></tr><tr><td>0</td><td>17</td><td>19</td></tr><tr><td>25</td><td>15</td><td>17</td></tr><tr><td>60</td><td>13</td><td>15</td></tr><tr><td>65</td><td>14</td><td>16</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> <p>-15V: Rated output current</p>		Ambient Temperature [°C]	Ripple Voltage [mV]		Load 50%	Load 100%	-60	17	19	-40	16	17	-20	18	20	0	17	19	25	15	17	60	13	15	65	14	16	--	-	-	--	-	-	--	-	-	--	-	-
Ambient Temperature [°C]	Ripple Voltage [mV]																																								
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Ambient Temperature [°C]	Ripple Voltage [mV]																																								
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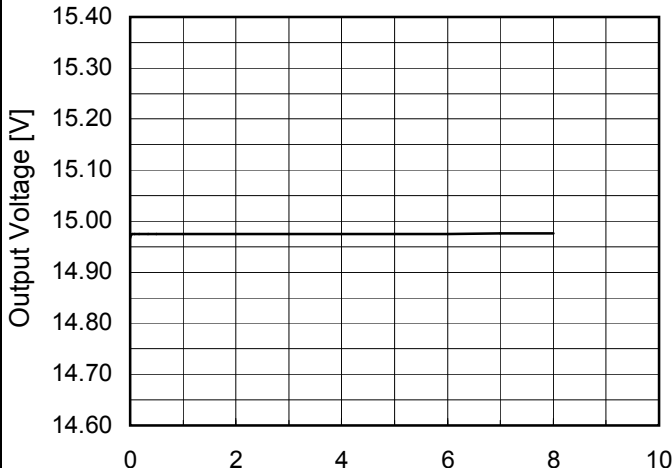
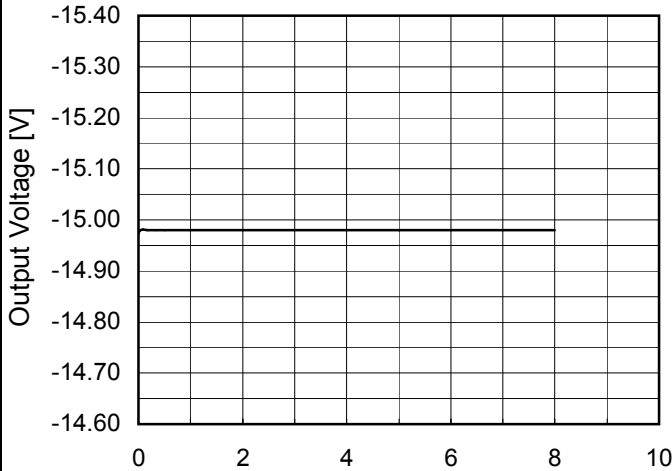
Model	MGW152415																																																						
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Testing Circuitry Figure A
$$* \text{ Output Voltage Accuracy (Ratio)} = \frac{\text{Output Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$$

Object	+15V0.5A					
Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	60	36	0	15.459	±270	±1.8
Minimum Voltage	-40	18	0.5	14.919		

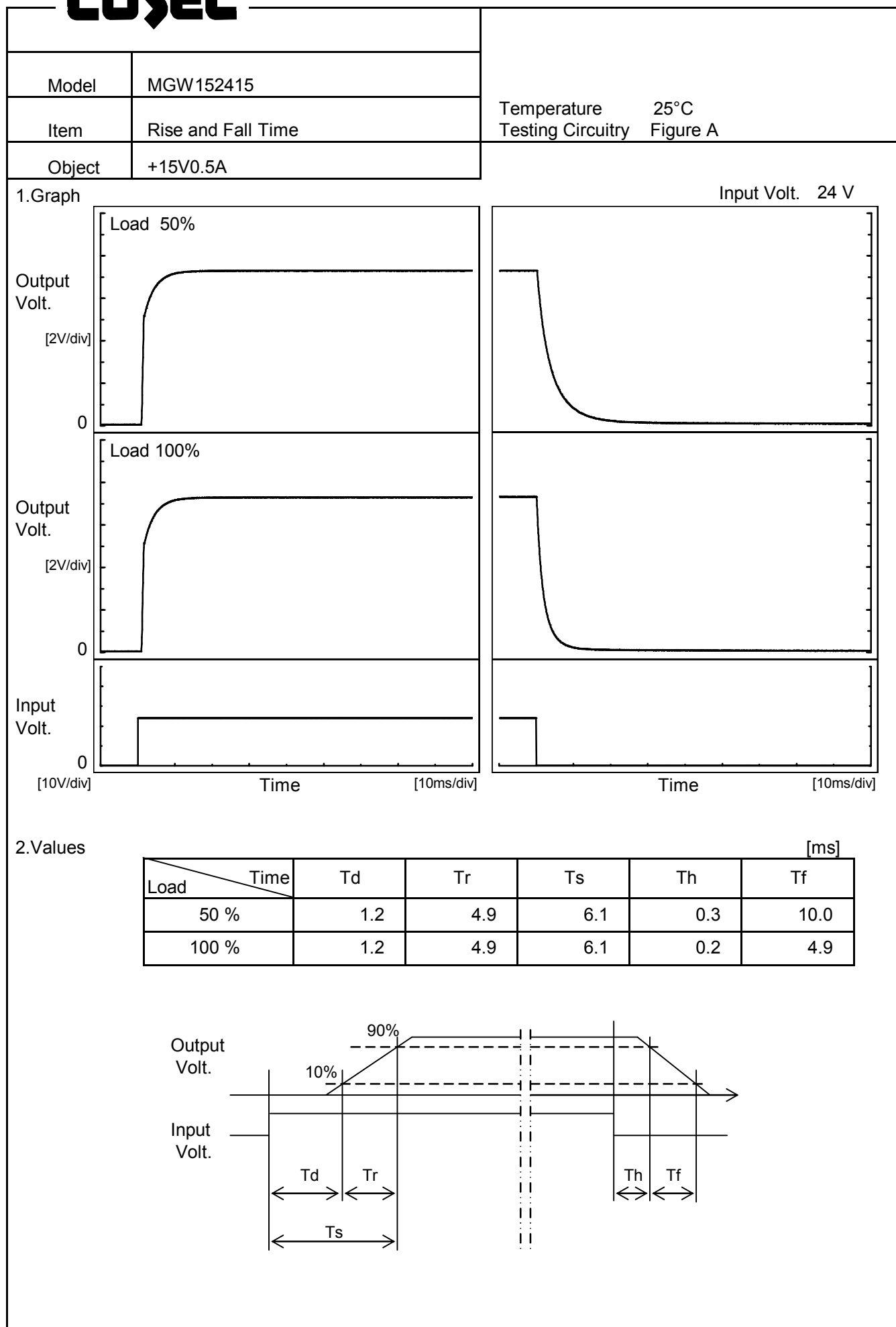
Object	-15V0.5A					
Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	60	36	0	-15.465	±273	±1.8
Minimum Voltage	-40	18	0.5	-14.920		

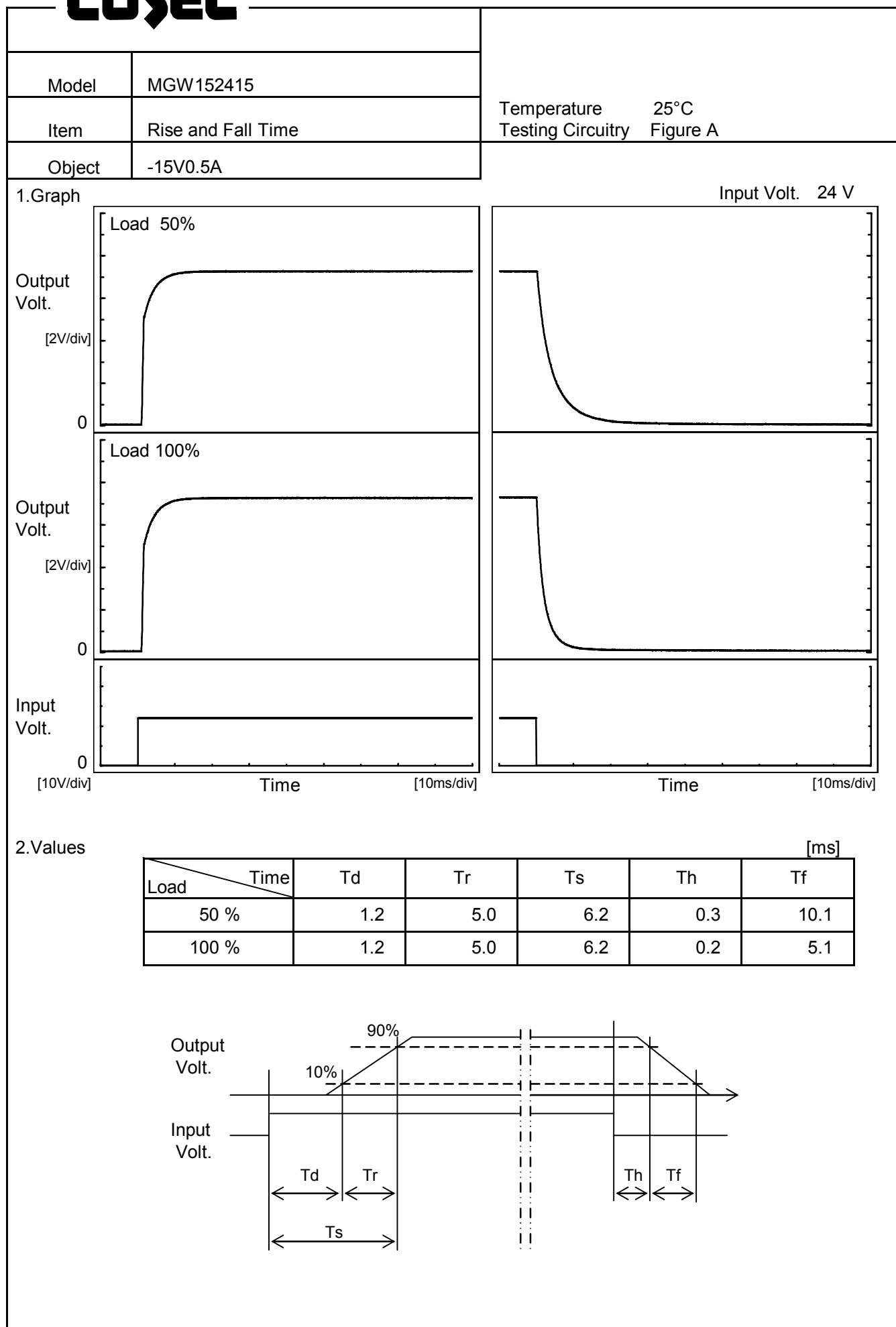


Model	MGW152415																								
Item	Time Lapse Drift	Temperature	25°C																						
		Testing Circuitry	Figure A																						
Object	+15V0.5A																								
1.Graph		2.Values																							
<div><p>Output Voltage [V]</p><p>Time [H]</p><p>Input Volt. 24V</p><p>Load 100%</p></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>14.967</td></tr><tr><td>0.5</td><td>14.975</td></tr><tr><td>1.0</td><td>14.975</td></tr><tr><td>2.0</td><td>14.975</td></tr><tr><td>3.0</td><td>14.975</td></tr><tr><td>4.0</td><td>14.976</td></tr><tr><td>5.0</td><td>14.975</td></tr><tr><td>6.0</td><td>14.975</td></tr><tr><td>7.0</td><td>14.976</td></tr><tr><td>8.0</td><td>14.976</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	14.967	0.5	14.975	1.0	14.975	2.0	14.975	3.0	14.975	4.0	14.976	5.0	14.975	6.0	14.975	7.0	14.976	8.0	14.976
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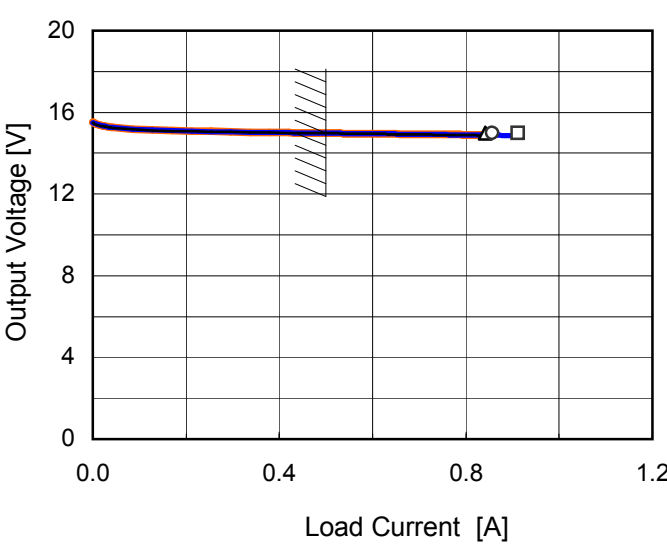
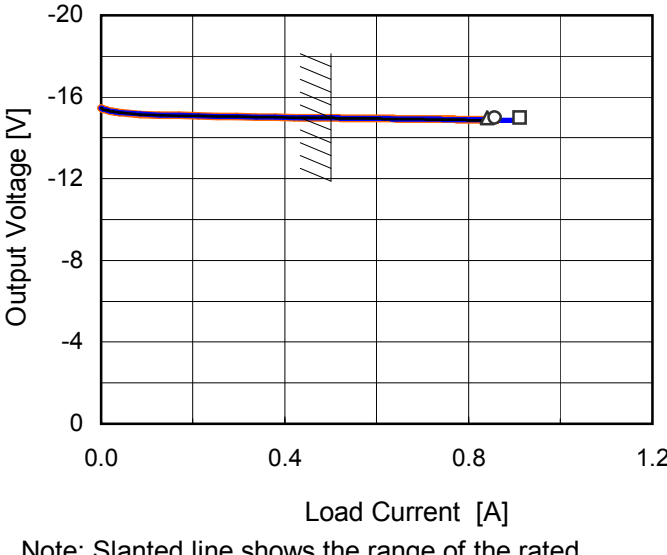
- 17 -

BC-10464





Model	MGW152415	Testing Circuitry Figure A																																							
Item	Minimum Input Voltage for Regulated Output Voltage																																								
Object	+15V0.5A																																								
1.Graph		2.Values																																							
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Item	Overcurrent Protection	Temperature	25°C																																																							
Object	+15V0.5A	Testing Circuitry	Figure A																																																							
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-9.00	-	-	-																																																							
-7.50	-	-	-																																																							
-6.00	-	-	-																																																							
-4.50	-	-	-																																																							
-3.00	-	-	-																																																							
-1.50	-	-	-																																																							
0.00	-	-	-																																																							
Note: Slanted line shows the range of the rated load current.																																																										
Intermittent operation occurs when overcurrent protection is activated.																																																										

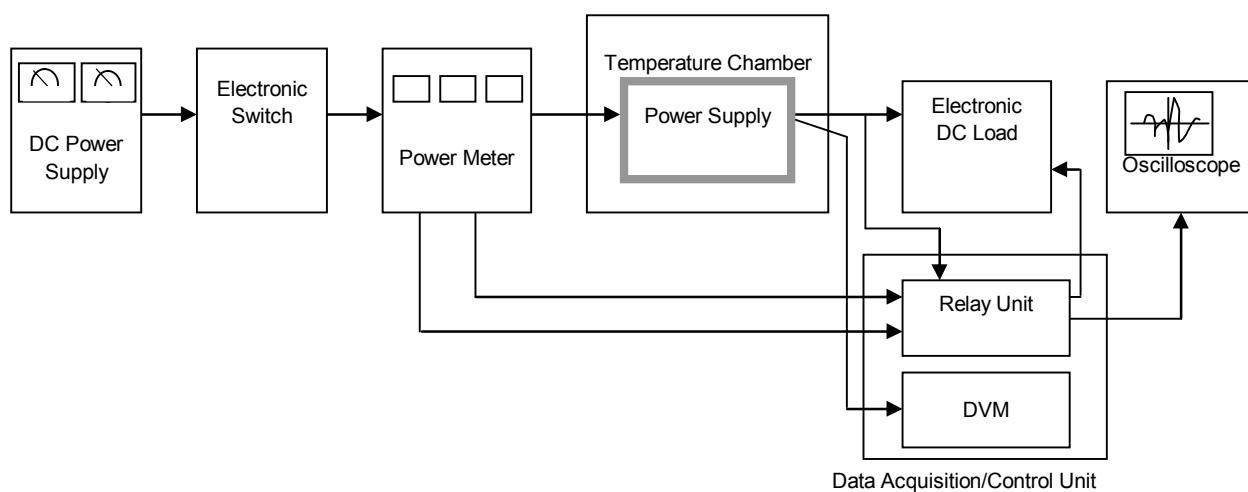


Figure A

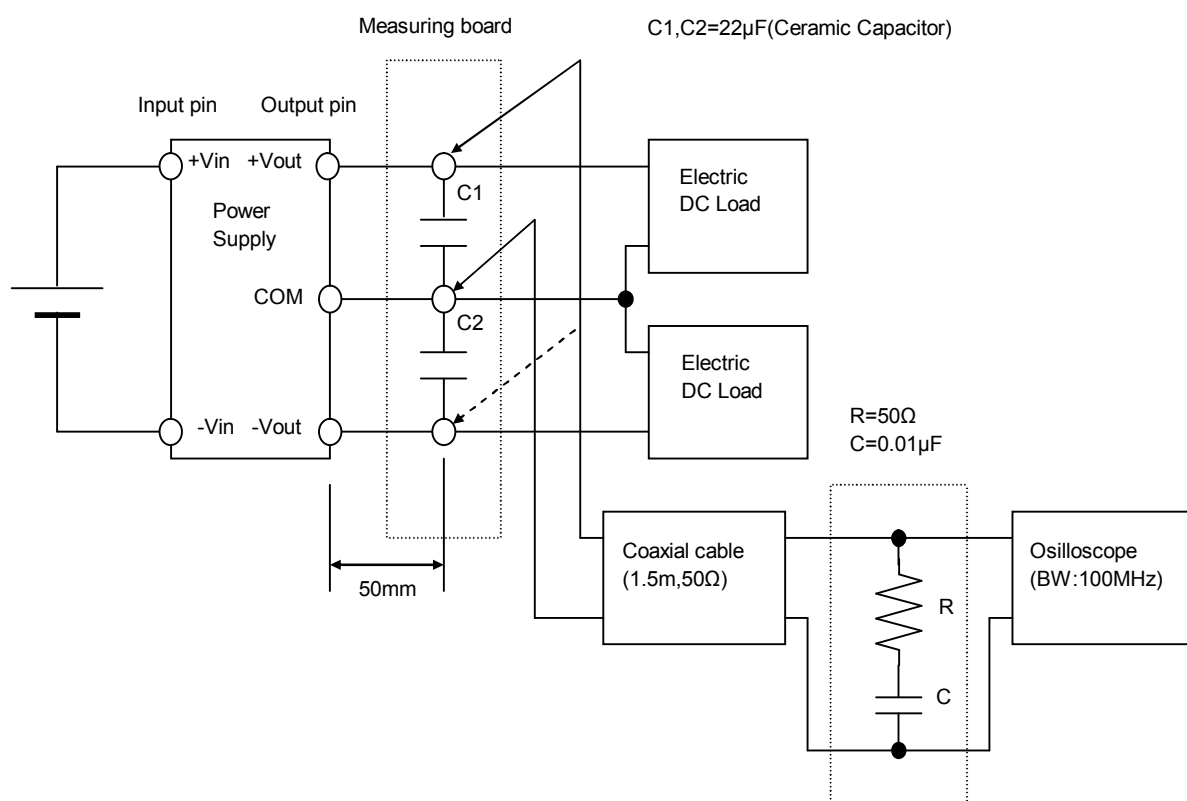


Figure B (Ripple and Ripple noise Characteristic)