

TEST DATA OF MGW302405

Regulated DC Power Supply
December 7, 2010

Approved by : Kazunari Asano
Kazunari Asano Design Manager

Prepared by : Sho Saito
Sho Saito Design Engineer

COSEL CO.,LTD.

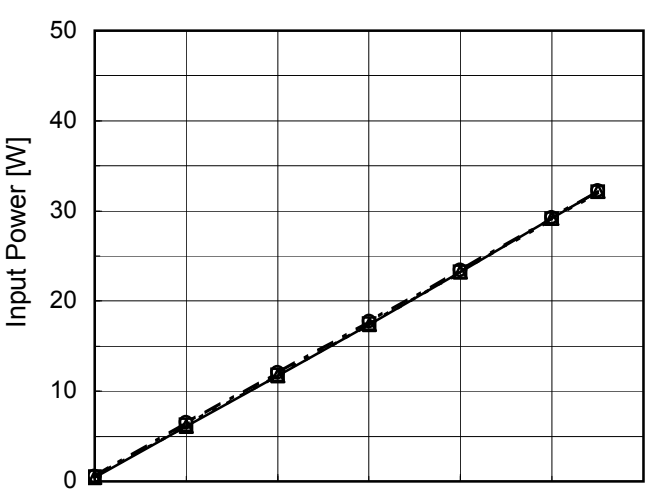
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0.125	5.209	5.206	5.218																																																			
0.500	5.180	5.176	5.173																																																			
1.000	5.146	5.142	5.139																																																			
1.500	5.120	5.117	5.114																																																			
2.000	5.096	5.095	5.093																																																			
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Model	MGW302405		
Item	Dynamic Load Response	Temperature	25°C
Object	+5V2.5A	Testing Circuitry	Figure A

Input Volt. 24 V

Other output current rated

Cycle 1000 ms

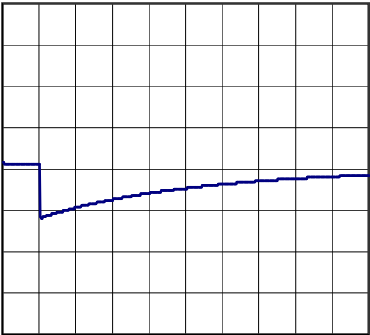
$t_1, t_2 = 50\mu\text{s}$



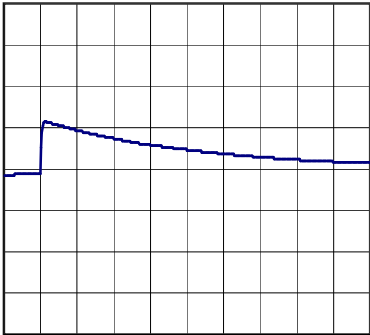
Min. Load (0A) \longleftrightarrow

Load 100% (2.5A)

500mV/div



50ms/div

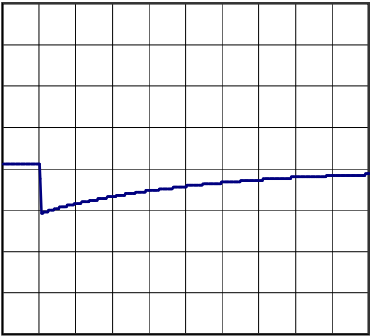


50ms/div

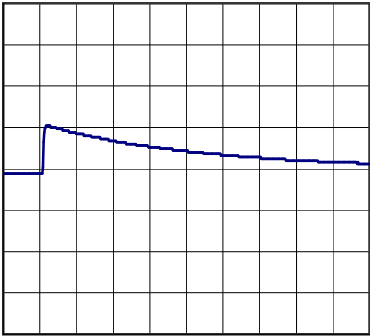
Min. Load (0A) \longleftrightarrow

Load 50% (1.25A)

500mV/div



50ms/div

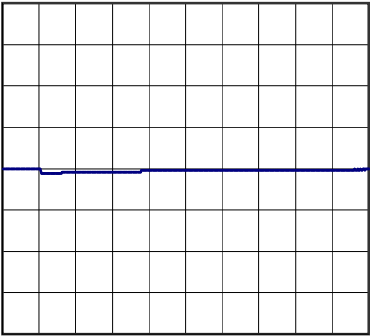


50ms/div

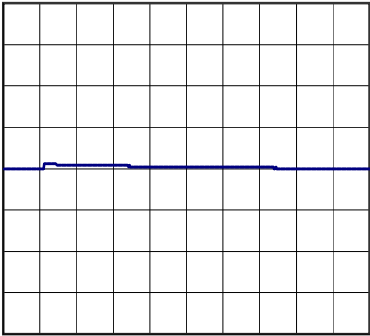
Load 50% (1.25A) \longleftrightarrow

Load 100% (2.5A)

500mV/div



50ms/div



50ms/div

Model	MGW302405	Temperature	25°C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	-5V2.5A		

Input Volt. 24 V

Other output current rated

Cycle 1000 ms

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

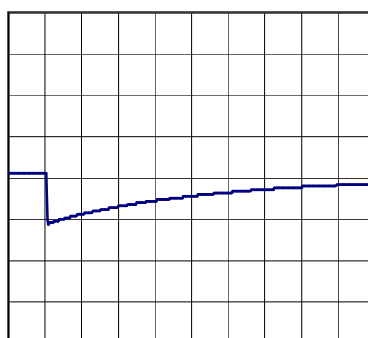
Load Current



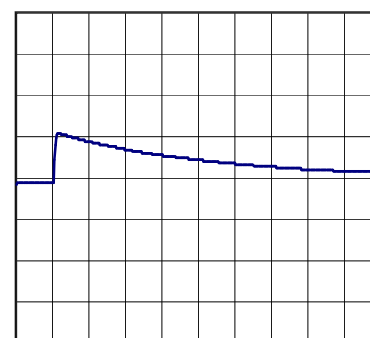
Min. Load (0A) \longleftrightarrow

Load 100% (2.5A)

500mV/div



50ms/div

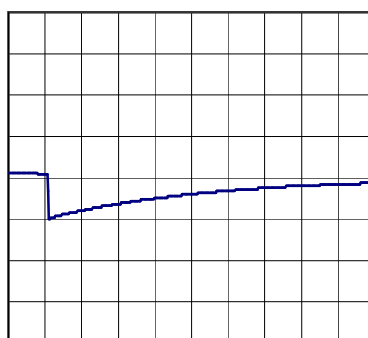


50ms/div

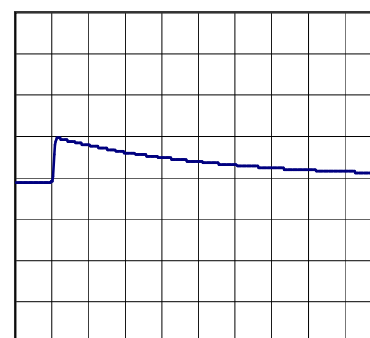
Min. Load (0A) \longleftrightarrow

Load 50% (1.25A)

500mV/div



50ms/div

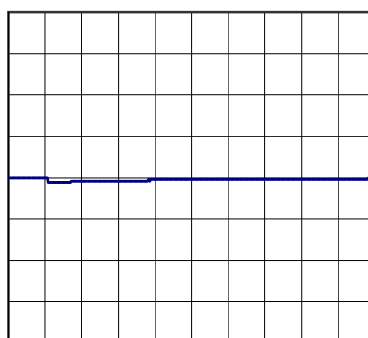


50ms/div

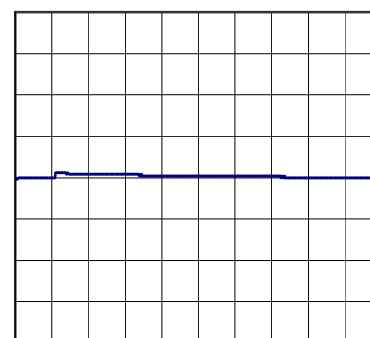
Load 50% (1.25A) \longleftrightarrow

Load 100% (2.5A)

500mV/div



50ms/div



50ms/div

Model		MGW302405	Temperature 25°C Testing Circuitry Figure B																																						
Item		Ripple Voltage (by Load Current)																																							
Object		+5V2.5A																																							
1.Graph		2.Values																																							
<div><div><div>—△— Input Volt. 18V</div><div>-.-○-.- Input Volt. 36V</div></div><div>Ripple Voltage [mV]</div><div>Load Current [A]</div></div>		<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>2</td><td>2</td></tr><tr><td>0.50</td><td>4</td><td>6</td></tr><tr><td>1.00</td><td>4</td><td>6</td></tr><tr><td>1.50</td><td>4</td><td>6</td></tr><tr><td>2.00</td><td>5</td><td>6</td></tr><tr><td>2.50</td><td>5</td><td>6</td></tr><tr><td>2.75</td><td>5</td><td>6</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> <div>-5V: Rated output current</div>		Load Current [A]	Ripple Voltage [mV]		Input Volt. 18 [V]	Input Volt. 36 [V]	0.00	2	2	0.50	4	6	1.00	4	6	1.50	4	6	2.00	5	6	2.50	5	6	2.75	5	6	--	-	-	--	-	-	--	-	-	--	-	-
Load Current [A]	Ripple Voltage [mV]																																								
	Input Volt. 18 [V]	Input Volt. 36 [V]																																							
0.00	2	2																																							
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--	-	-																																							
--	-	-																																							
--	-	-																																							
--	-	-																																							
<div>Ripple Voltage is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current.</div>																																									
<div><div>Ripple [mVp-p]</div><div>Fig.Complex Ripple Wave Form</div></div>																																									

Model	MGW302405		
Item	Ripple Voltage (by Load Current)	Temperature	25°C
		Testing Circuitry	Figure B
Object	-5V2.5A		
1.Graph		2.Values	
<div><div><div><div></div><div>Input Volt.</div><div>18V</div></div><div><div></div><div>Input Volt.</div><div>36V</div></div></div><div><div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><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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Model	MGW302405																																								
Item	Ripple-Noise	Temperature	25°C																																						
		Testing Circuitry	Figure B																																						
Object	+5V2.5A																																								
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-Noise [mV]</th></tr><tr><th>Input Volt. 18 [V]</th><th>Input Volt. 36 [V]</th></tr><tr><td>0.00</td><td>5</td><td>5</td></tr><tr><td>0.50</td><td>10</td><td>10</td></tr><tr><td>1.00</td><td>10</td><td>10</td></tr><tr><td>1.50</td><td>10</td><td>10</td></tr><tr><td>2.00</td><td>10</td><td>10</td></tr><tr><td>2.50</td><td>10</td><td>10</td></tr><tr><td>2.75</td><td>10</td><td>10</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>-5V: Rated output current</p>		Load Current [A]	Ripple-Noise [mV]		Input Volt. 18 [V]	Input Volt. 36 [V]	0.00	5	5	0.50	10	10	1.00	10	10	1.50	10	10	2.00	10	10	2.50	10	10	2.75	10	10	--	-	-	--	-	-	--	-	-	--	-	-
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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>Ripple Noise[mVp-p]</p>																																									
Fig.Complex Ripple Noise Wave Form																																									

Model		MGW302405	
Item		Ripple-Noise	
Object		-5V2.5A	
1.Graph		2.Values	
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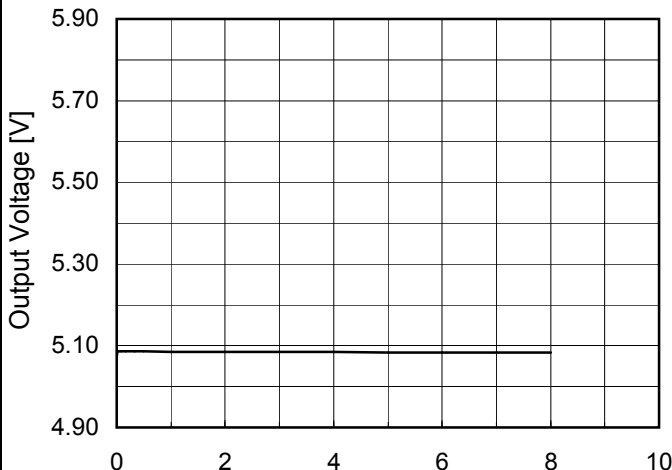
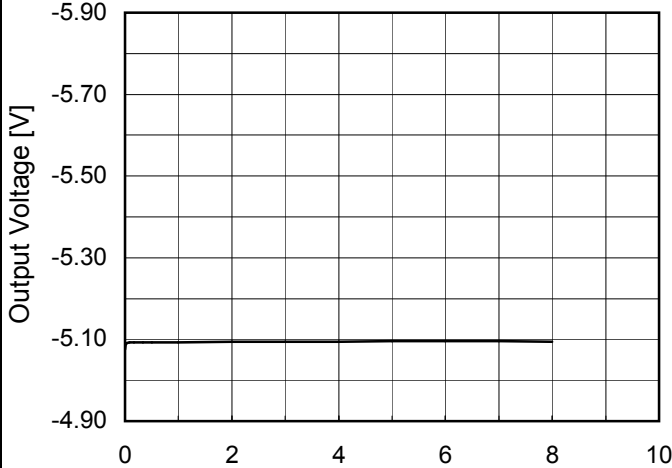
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Ripple Voltage [mV]

Ambient Temperature [°C]

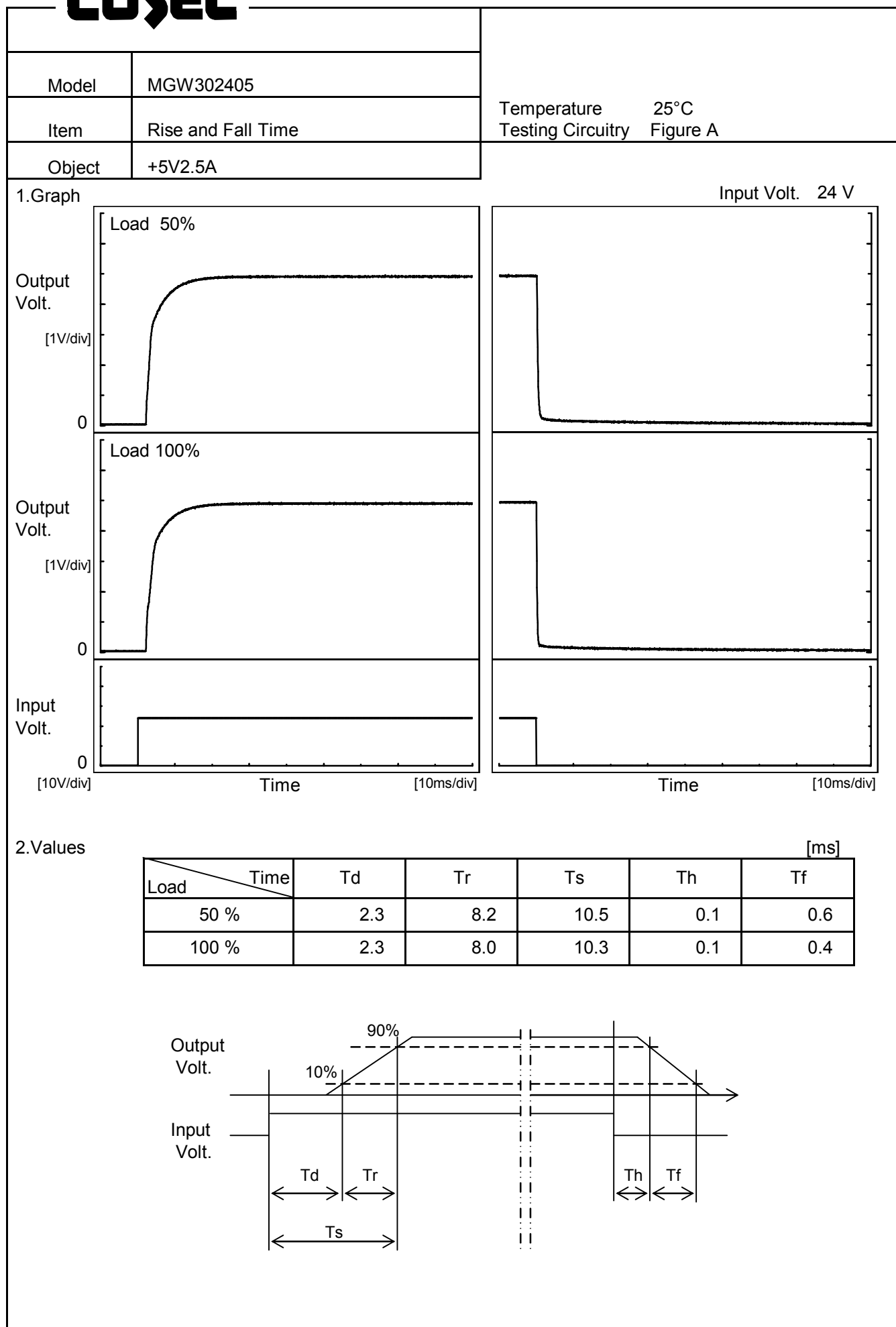
Input Volt. 24V

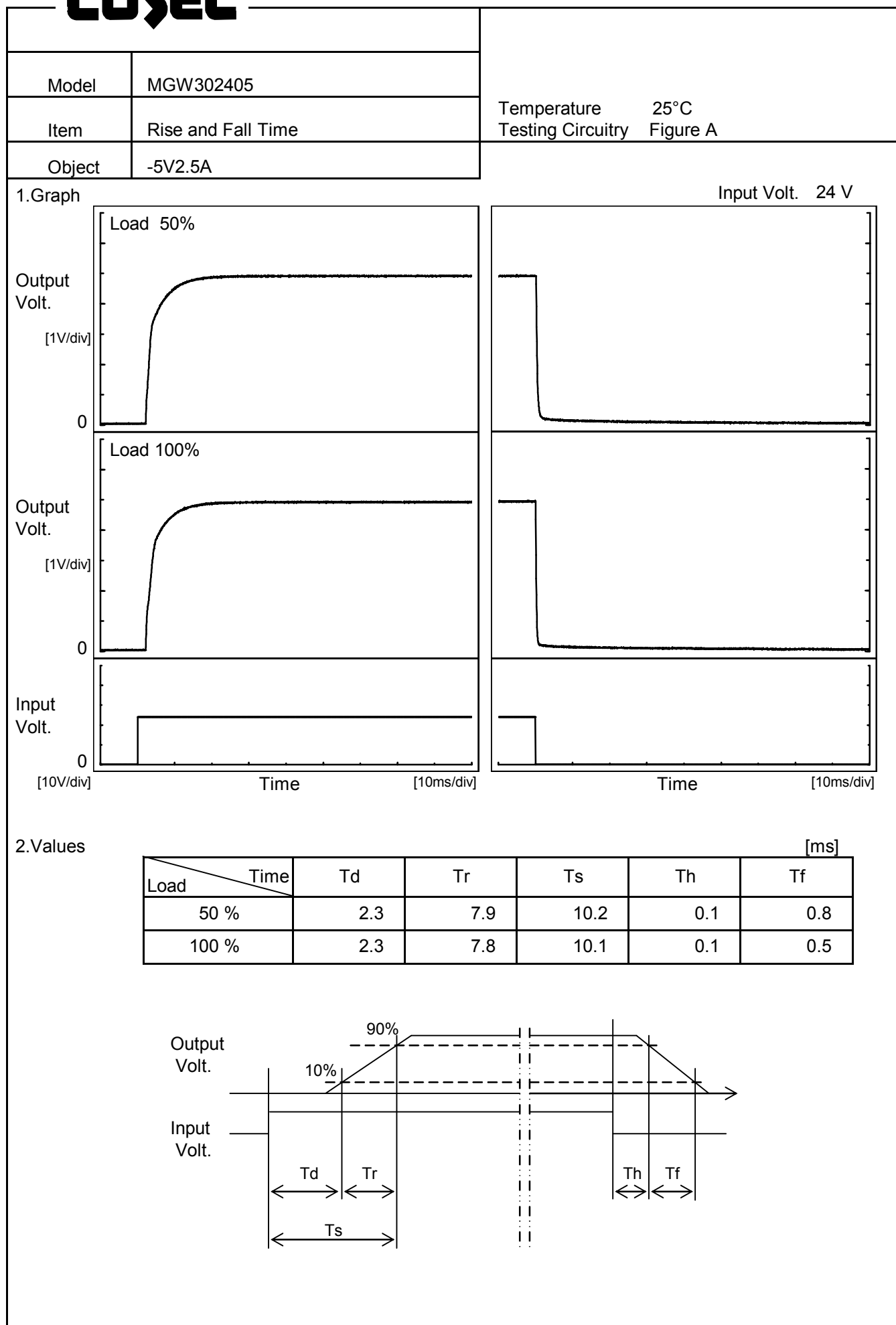
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Model	MGW302405																								
Item	Time Lapse Drift	Temperature	25°C																						
		Testing Circuitry	Figure A																						
Object	+5V2.5A																								
1.Graph		2.Values																							
<div><p>Output Voltage [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>5.073</td></tr><tr><td>0.5</td><td>5.086</td></tr><tr><td>1.0</td><td>5.085</td></tr><tr><td>2.0</td><td>5.085</td></tr><tr><td>3.0</td><td>5.085</td></tr><tr><td>4.0</td><td>5.084</td></tr><tr><td>5.0</td><td>5.083</td></tr><tr><td>6.0</td><td>5.083</td></tr><tr><td>7.0</td><td>5.083</td></tr><tr><td>8.0</td><td>5.083</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	5.073	0.5	5.086	1.0	5.085	2.0	5.085	3.0	5.085	4.0	5.084	5.0	5.083	6.0	5.083	7.0	5.083	8.0	5.083
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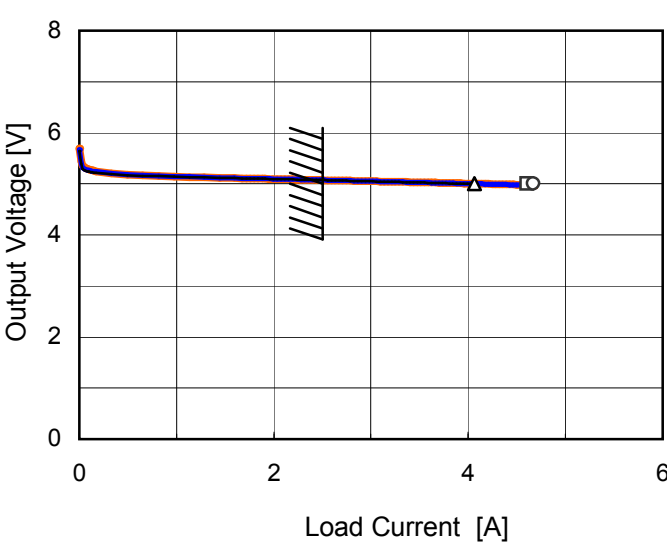
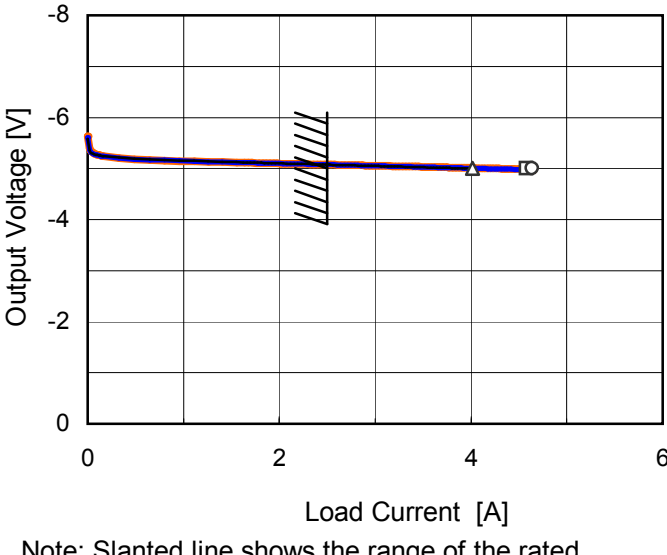
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BC-10524





Model	MGW302405	Testing Circuitry Figure A																																							
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Note: Slanted line shows the range of the rated ambient temperature.																																									

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Item	Overcurrent Protection	Temperature	25°C																																																							
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Model	MGW302405																																								
Item	Overvoltage Protection	Testing Circuitry Figure A																																							
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<p>Note: Slanted line shows the range of the rated ambient temperature.</p> <p>Measured as a single output(+10V).</p>																																									

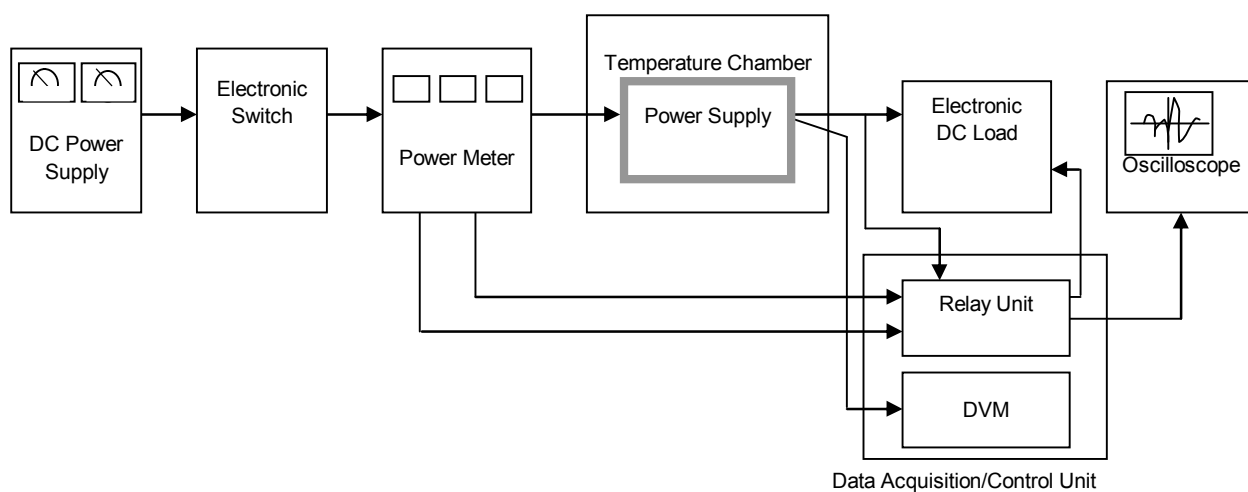


Figure A

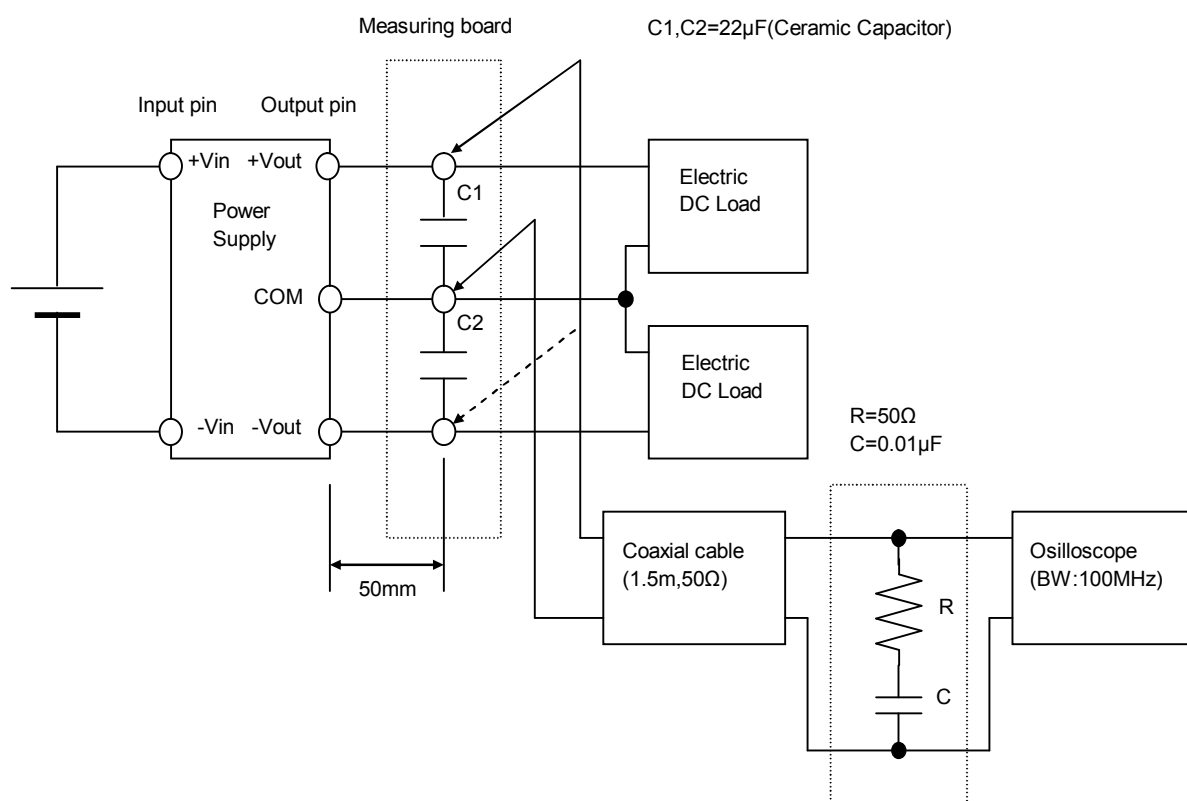


Figure B (Ripple and Ripple noise Characteristic)