

TEST DATA OF MUW1R50515

Regulated DC Power Supply
February 6, 2025

Approved by : Kenichi Tsukada
Design Manager

Prepared by : Soichiro Kawaguchi
Design Engineer

COSEL CO.,LTD.

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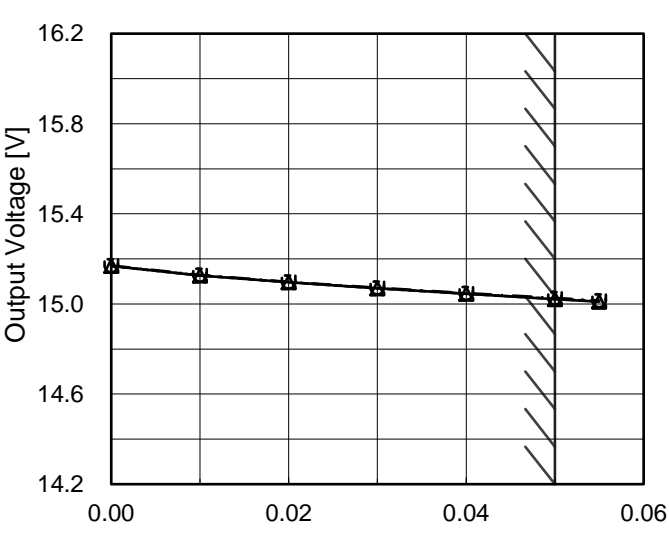
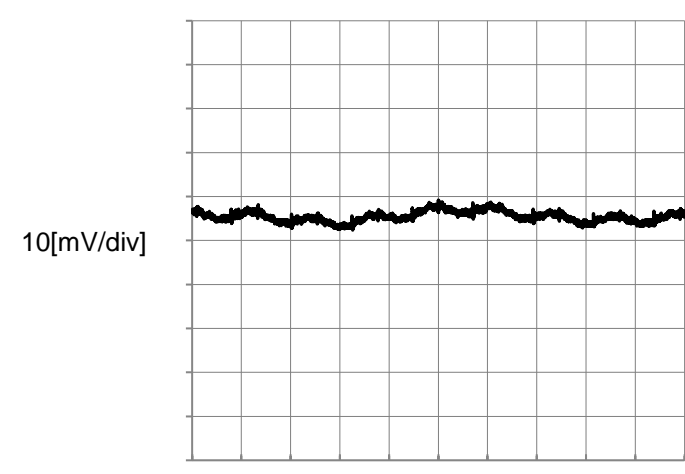
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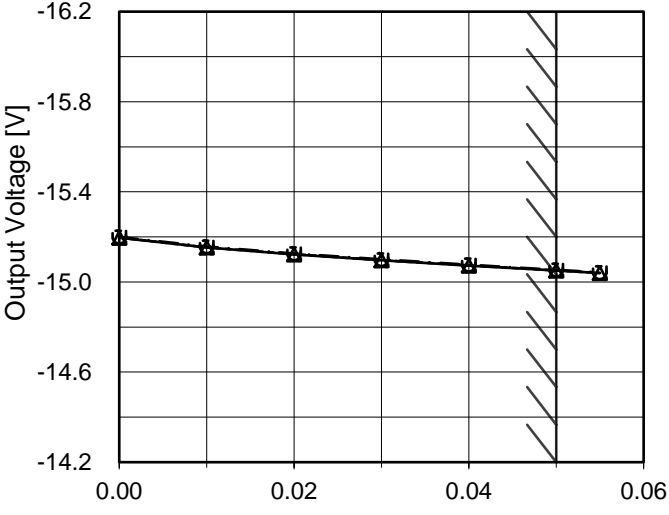
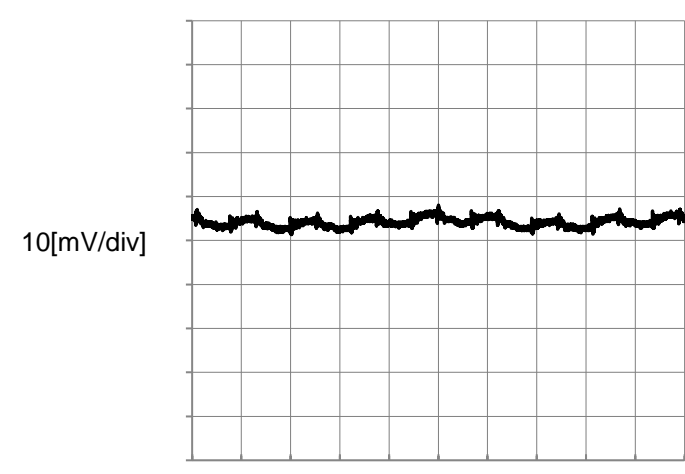
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BC-12067

COSEL

COSEL																																																						
Model	MUW1R50515	Temperature	25°C																																																			
Item	Load Regulation	Testing Circuitry	Figure A																																																			
Object	-15V0.05A																																																					
1.Graph		2.Values																																																				
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Item	Ripple-Noise	Temperature	25°C																																																			
Object	-15V0.05A	Testing Circuitry	Figure B																																																			
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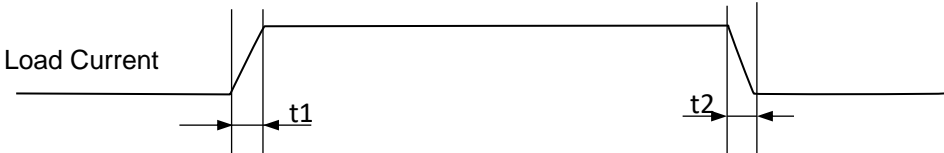
Model		MUW1R50515	Temperature 25°C Testing Circuitry Figure A
Item		Dynamic Load Response	
Object		+15V0.05A	

Input Volt. 5 V

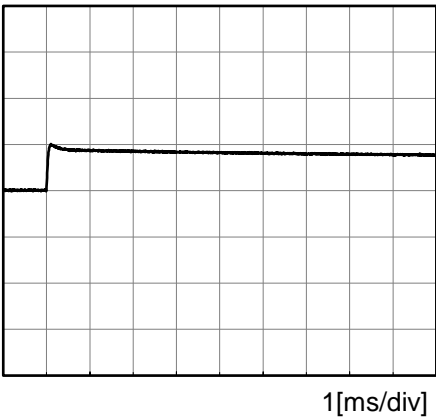
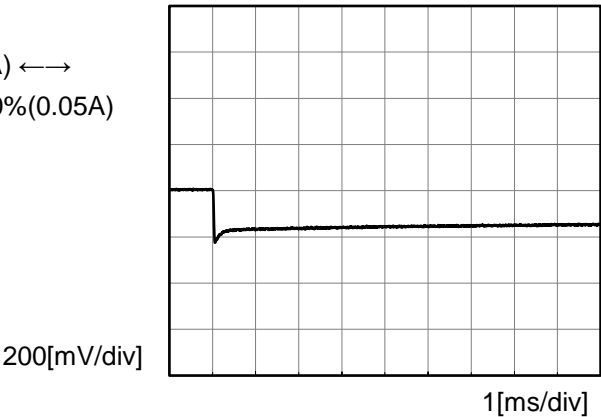
-15V:Rated Load Current

Cycle 1000 ms

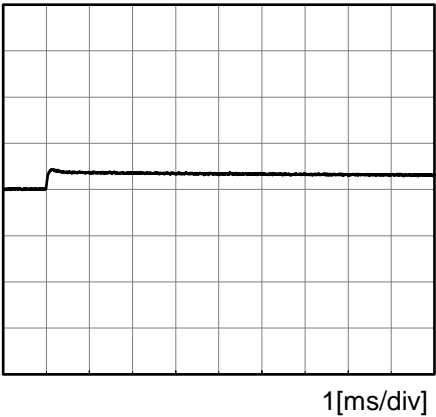
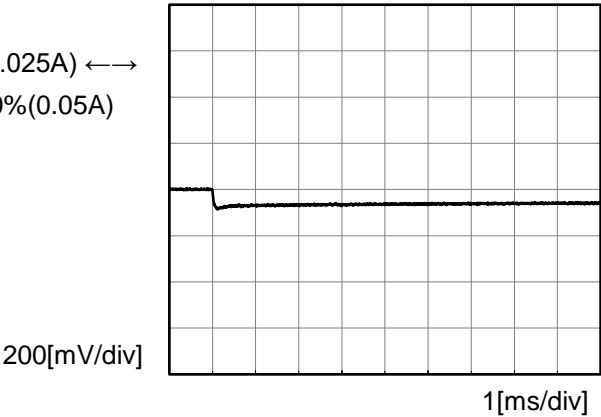
Response. t1=t2=50μs. Typ



Load 0%(0A) ↔
Load 100%(0.05A)



Load 50%(0.025A) ↔
Load 100%(0.05A)





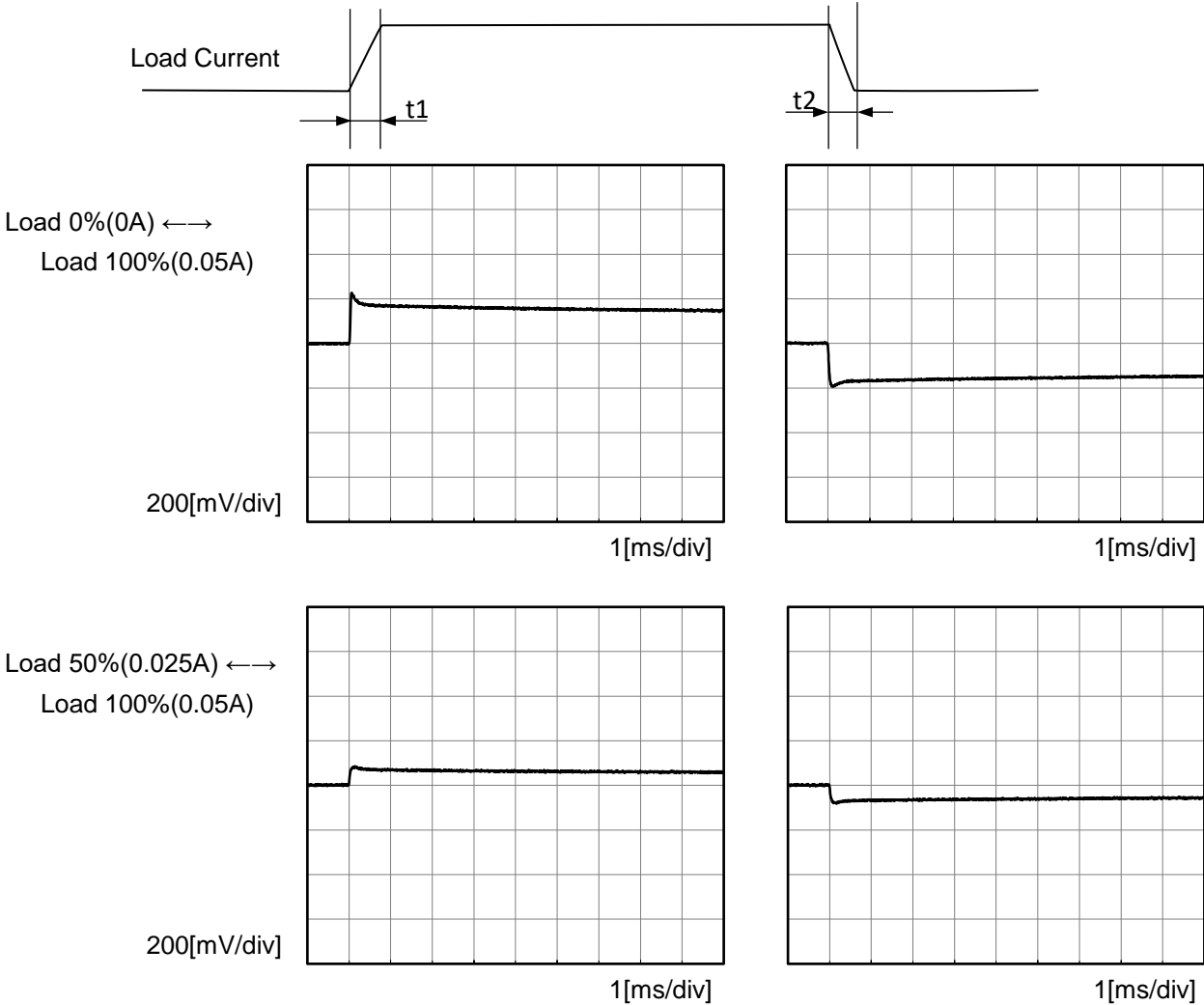
Model		MUW1R50515	Temperature 25°C Testing Circuitry Figure A
Item		Dynamic Load Response	
Object		-15V0.05A	

Input Volt. 5 V

+15V:Rated Load Current

Cycle 1000 ms

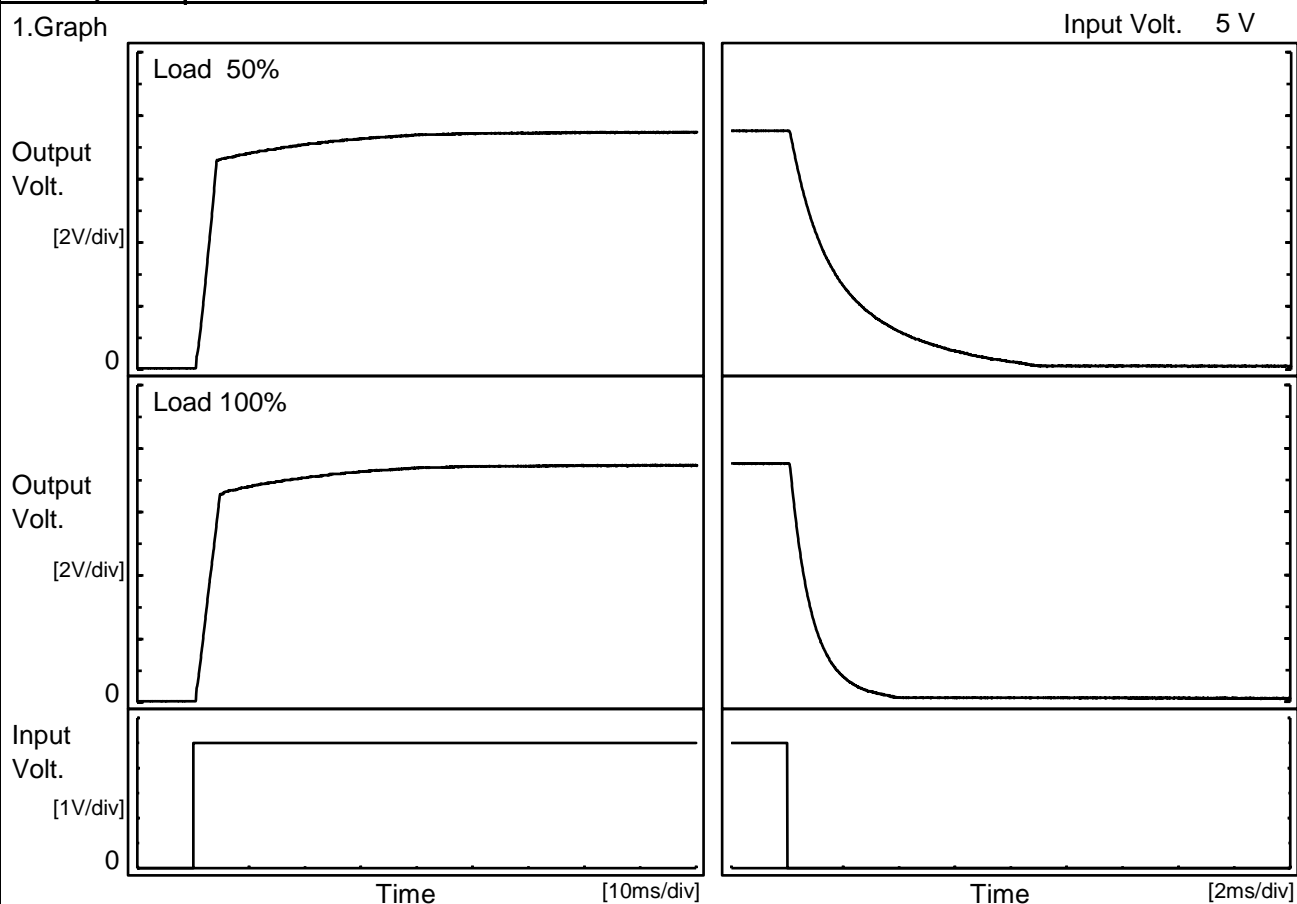
Response. t1=t2=50μs. Typ



COSEL

Model	MUW1R50515	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+15V0.05A		

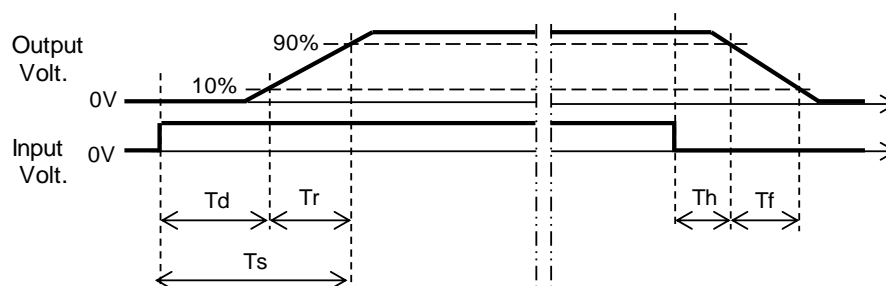
1.Graph



-15V:Load Current is same as +15V

2.Values

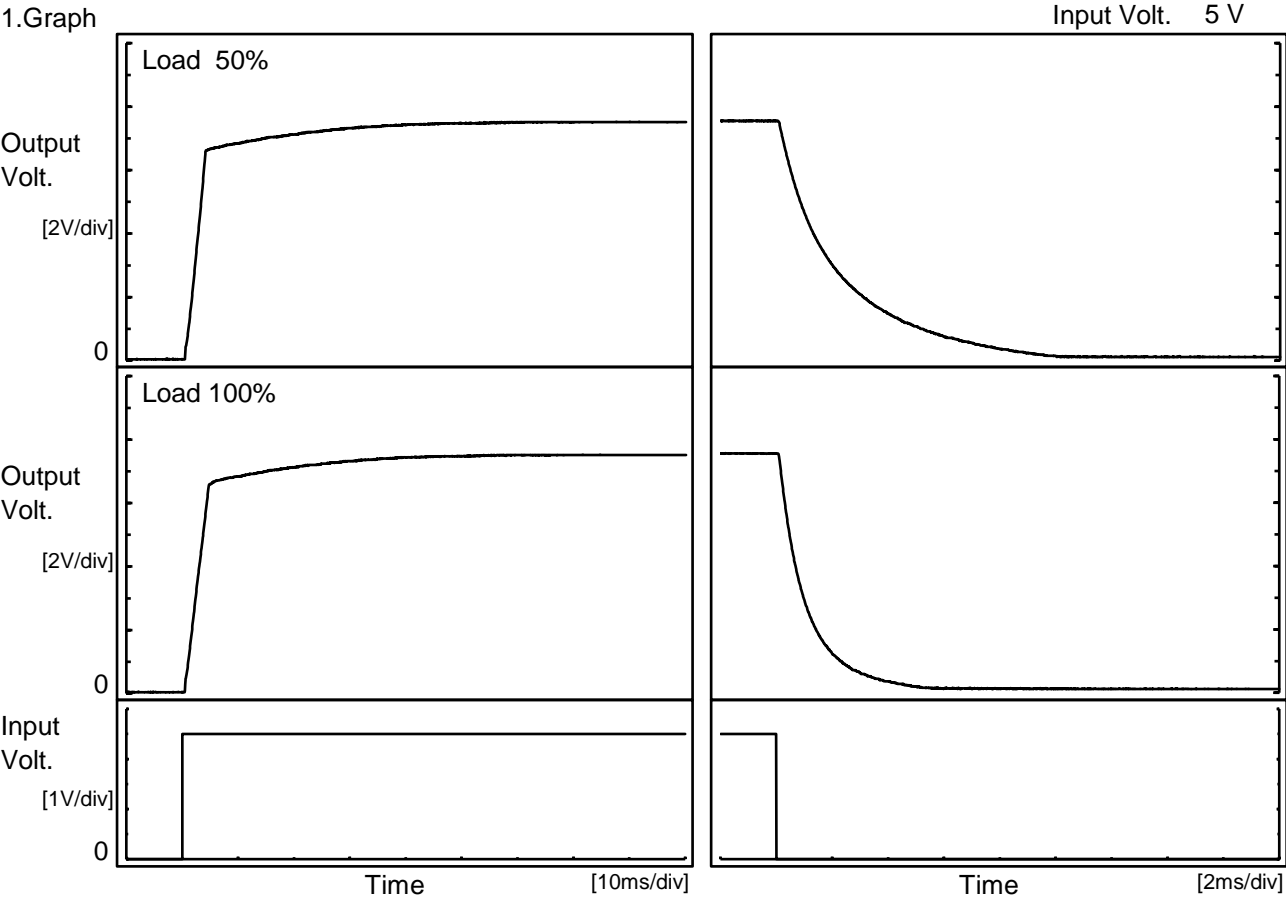
		[ms]				
Load	Time	Td	Tr	Ts	Th	Tf
50 %		1.0	8.3	9.3	0.3	4.9
100 %		1.0	8.6	9.6	0.2	1.8





Model	MUW1R50515	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	-15V0.05A		

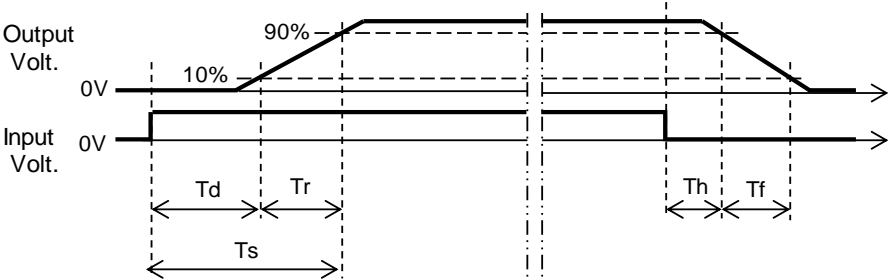
1.Graph



+15V:Load Current is same as -15V

2.Values

		[ms]				
Load	Time	Td	Tr	Ts	Th	Tf
50 %		1.0	6.9	7.9	0.3	5.7
100 %		1.0	7.3	8.3	0.2	2.5



COSEL

COSEL																																																										
Model	MUW1R50515	Temperature	25°C																																																							
Item	Overcurrent Protection	Testing Circuitry	Figure A																																																							
Object	+15V0.05A																																																									
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Note: Slanted line shows the range of the rated load current.																																																										

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BC-12067

COSEL

		Testing Circuitry Figure A
Model	MUW1R50515	
Item	Ambient Temperature Drift	
Object	+15V0.05A	

1.Values

Load 100%

Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 4.5V	Input Volt. 5V	Input Volt. 9V
-40	14.931	14.933	14.937
25	15.026	15.027	15.030
85	15.038	15.040	15.043

-15V:Load Current is same as +15V

Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A
Object	+15V0.05A	

1.Values

Ambient Temperature[°C]	Input Voltage [V]	
	Load 50%	Load 100%
-40	3.1	3.0
25	3.1	3.0
85	3.1	3.0

-15V:Load Current is same as +15V

COSEL

		Testing Circuitry Figure A
Model	MUW1R50515	
Item	Ambient Temperature Drift	
Object	-15V0.05A	

1.Values

Load 100%

Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 4.5V	Input Volt. 5V	Input Volt. 9V
-40	-14.961	-14.962	-14.965
25	-15.054	-15.054	-15.057
85	-15.065	-15.066	-15.069

+15V:Load Current is same as -15V

Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A
Object	-15V0.05A	

1.Values

Ambient Temperature[°C]	Input Voltage [V]	
	Load 50%	Load 100%
-40	3.1	3.0
25	3.1	3.0
85	3.1	3.0

+15V:Load Current is same as -15V

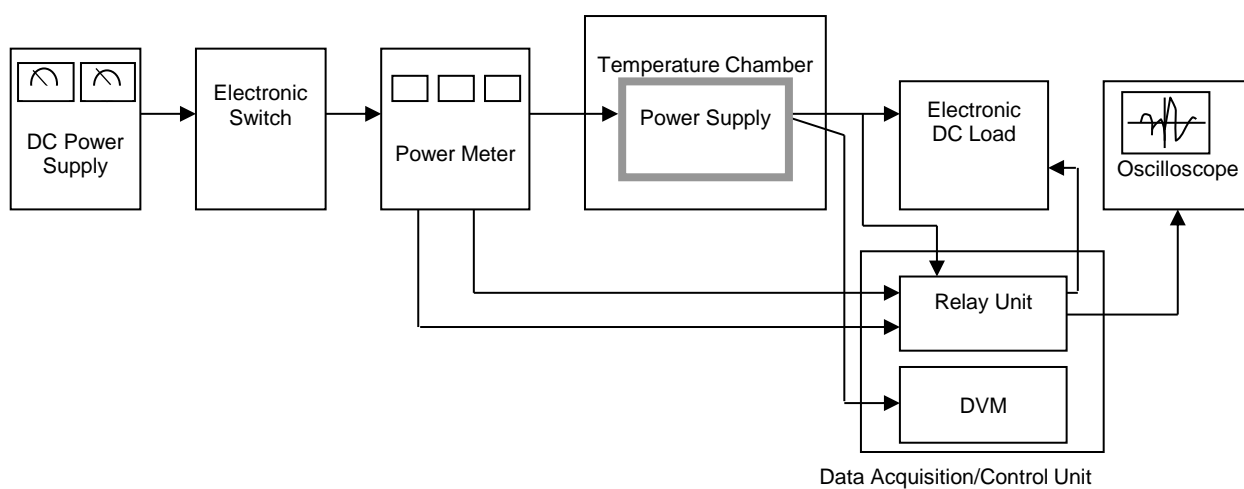


Figure A

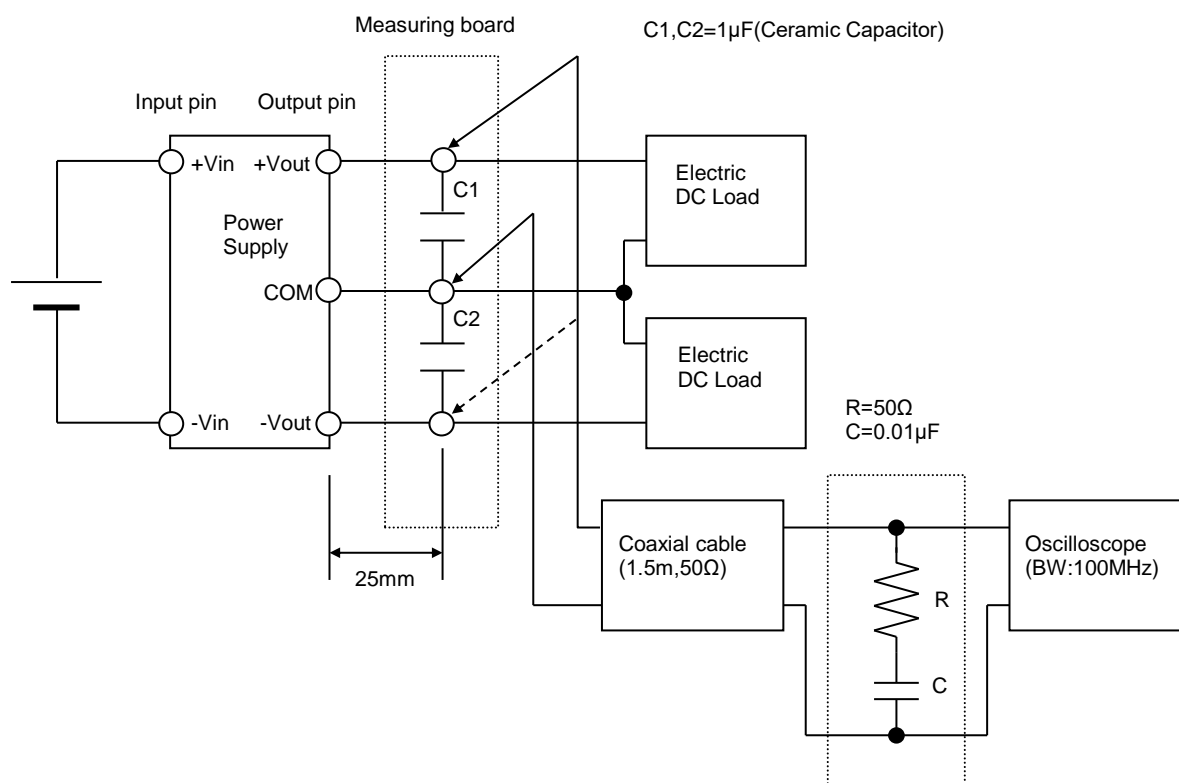


Figure B