

TEST DATA OF MUW1R54815

Regulated DC Power Supply
February 6, 2025

Approved by : Kenichi Tsukada
Design Manager

Prepared by : Soichiro Kawaguchi
Design Engineer

COSEL CO.,LTD.

CONTENTS

1.Input Current (by Load Current)	1
2.Efficiency (by Load Current)	2
3.Line Regulation	3
4.Cross Regulation	4, 5
5.Ripple-Noise	4, 5
6.Dynamic Load Response	6, 7
7.Rise and Fall Time	8, 9
8.Overcurrent Protection	10
9.Ambient Temperature Drift	11,12
10.Minimum Input Voltage for Regulated Output Voltage	11,12
11.Figure of Testing Circuitry	13

(Final Page 13)

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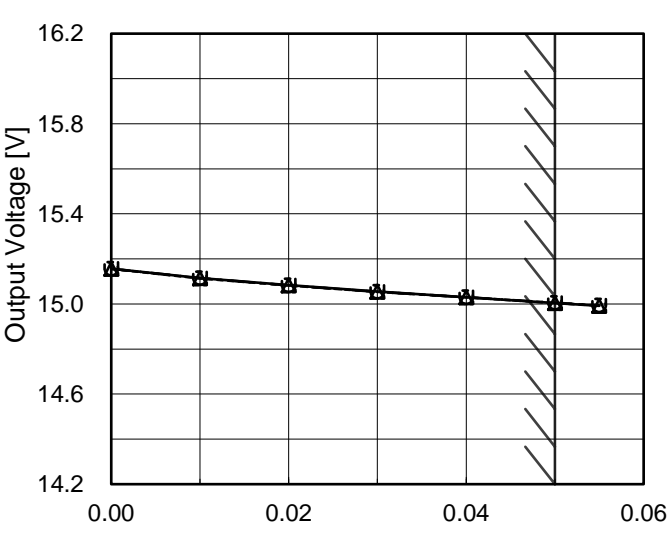
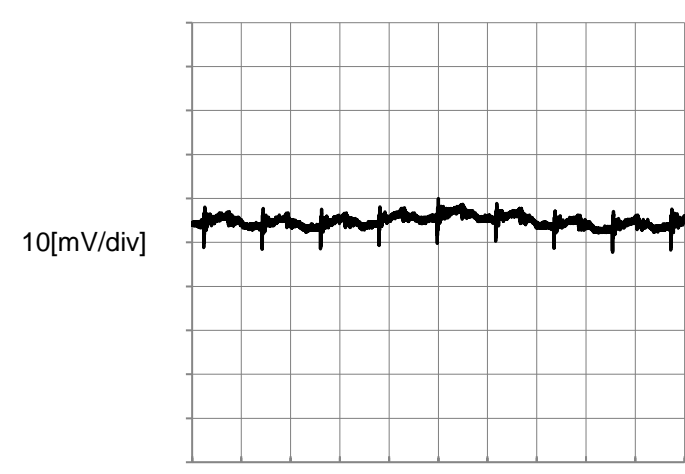


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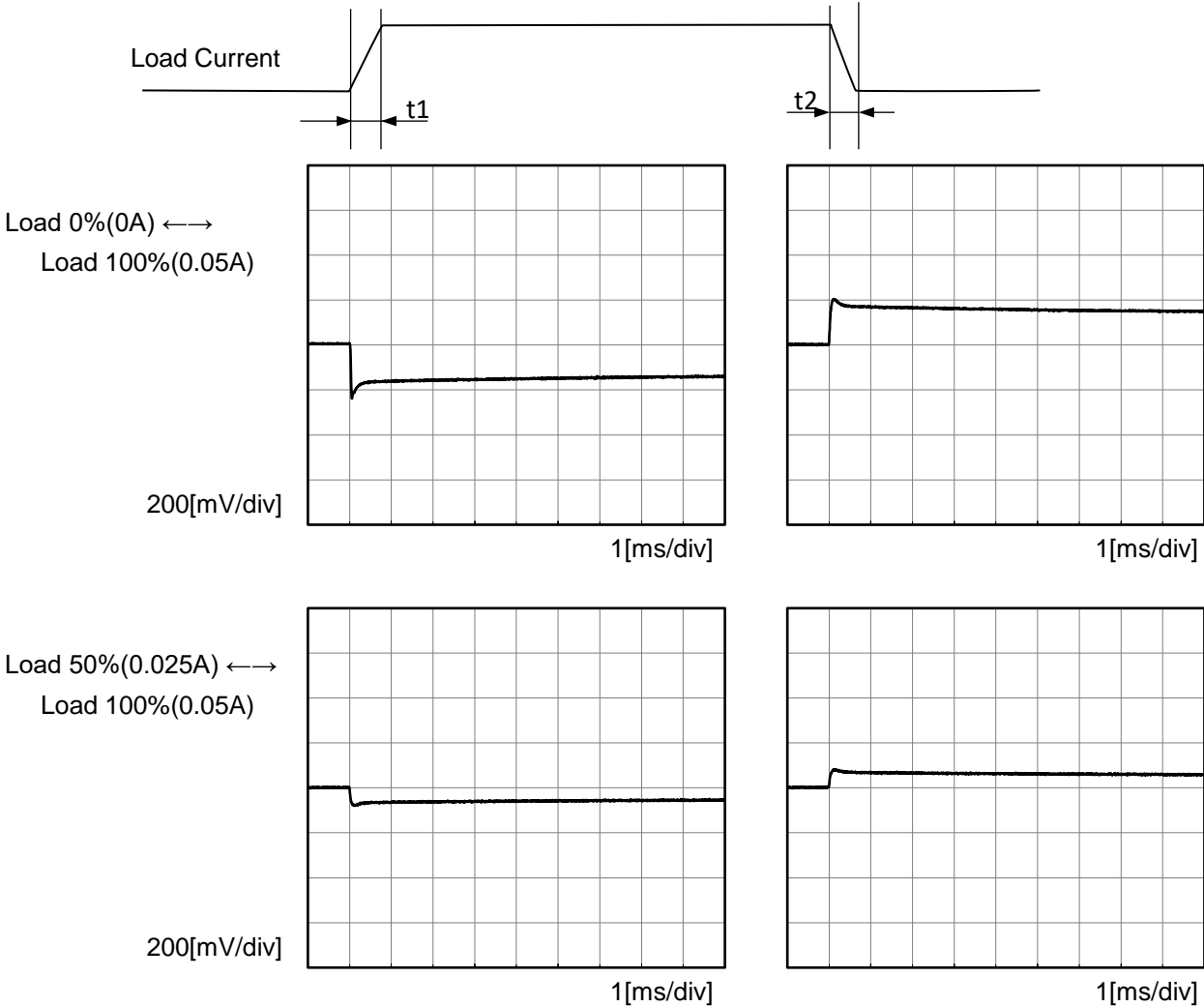
Model		MUW1R54815	Temperature 25°C Testing Circuitry Figure A
Item		Dynamic Load Response	
Object		+15V0.05A	

Input Volt. 48 V

-15V:Rated Load Current

Cycle 1000 ms

Response. t1=t2=50μs. Typ





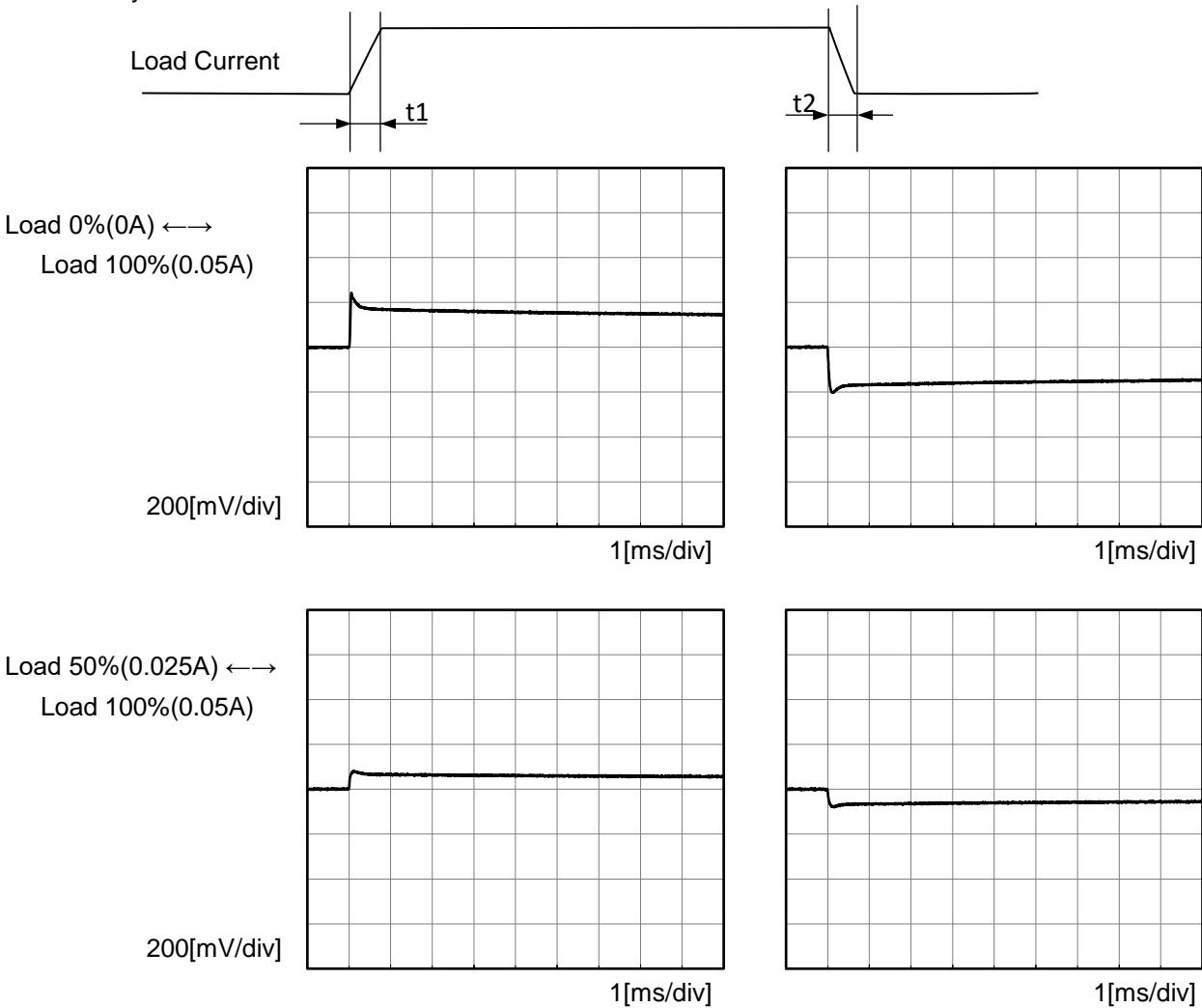
Model		MUW1R54815	Temperature 25°C Testing Circuitry Figure A
Item		Dynamic Load Response	
Object		-15V0.05A	

Input Volt. 48 V

+15V:Rated Load Current

Cycle 1000 ms

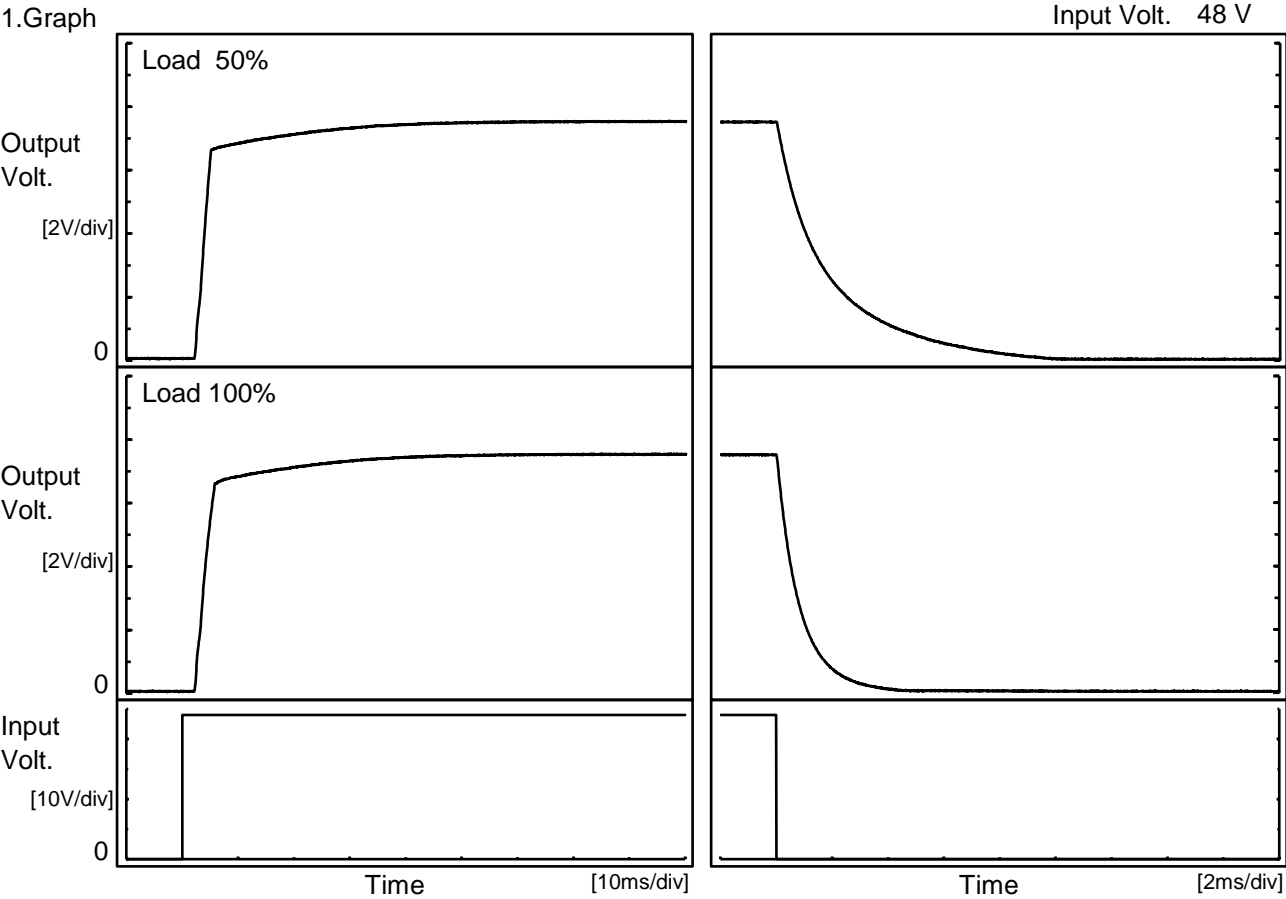
Response. t1=t2=50μs. Typ





Model		MUW1R54815	Temperature 25°C Testing Circuitry Figure A
Item		Rise and Fall Time	
Object		+15V0.05A	

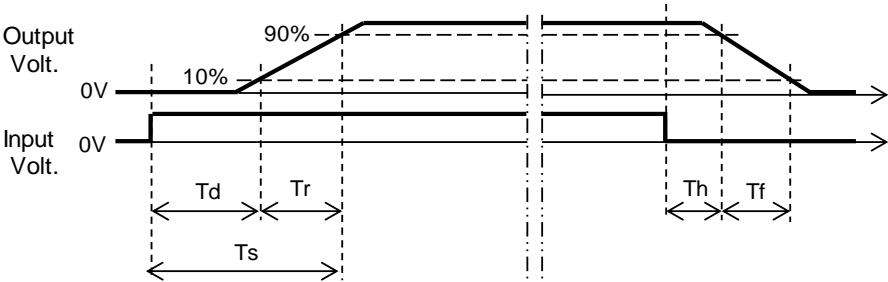
1.Graph



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

2.Values

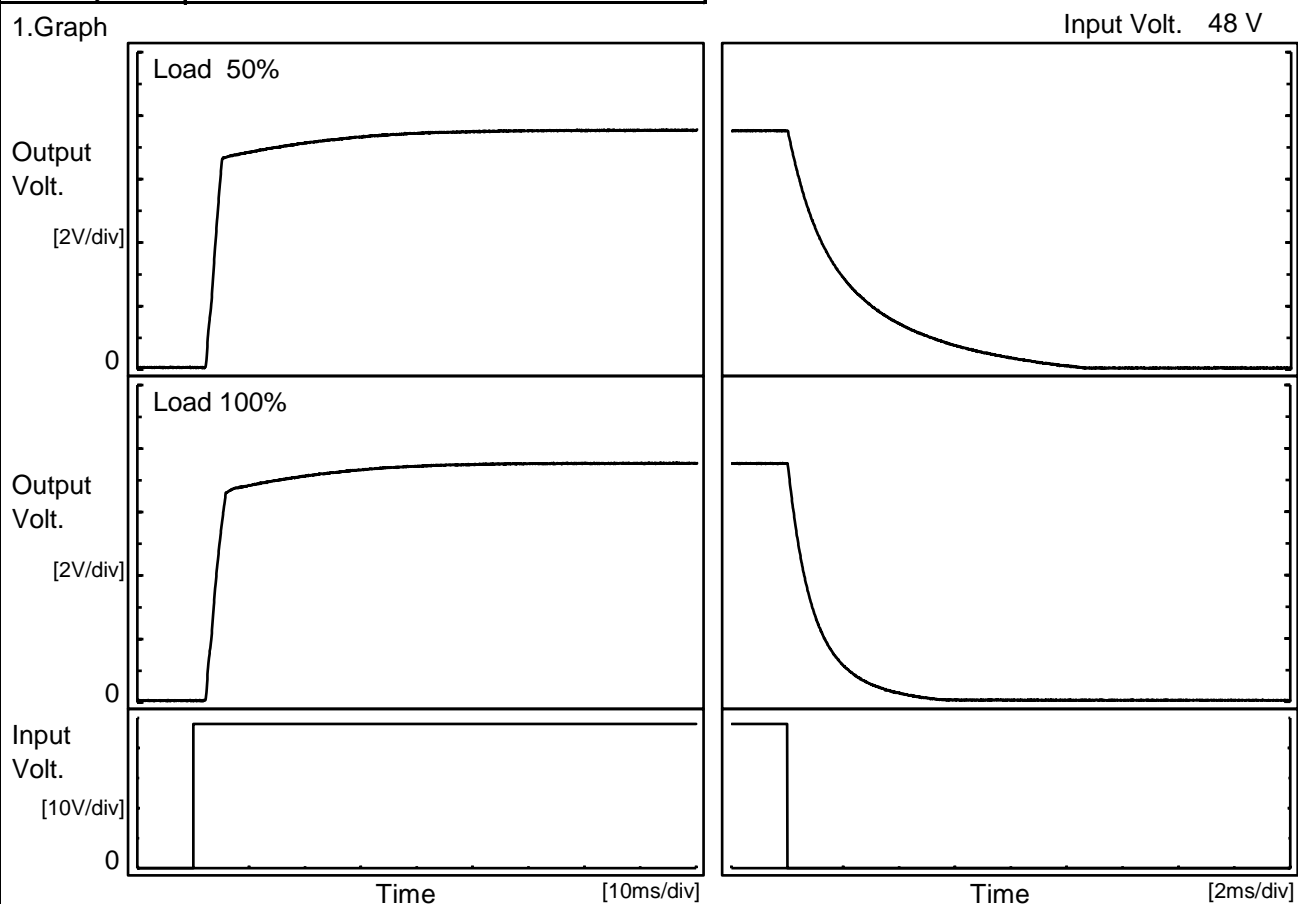
		[ms]				
Load	Time	Td	Tr	Ts	Th	Tf
50 %		2.6	5.8	8.4	0.2	4.8
100 %		2.6	6.0	8.6	0.1	1.9



COSEL

Model	MUW1R54815	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	-15V0.05A		

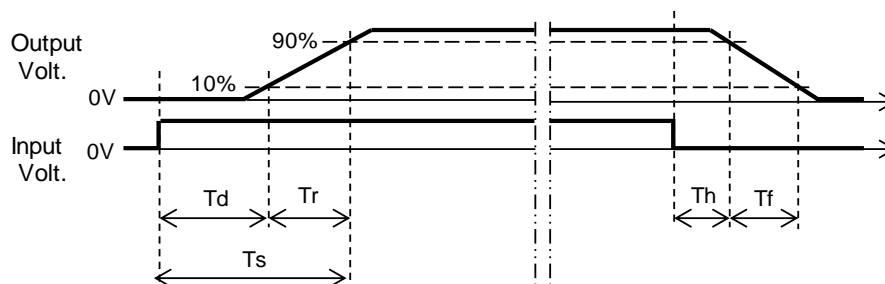
1.Graph



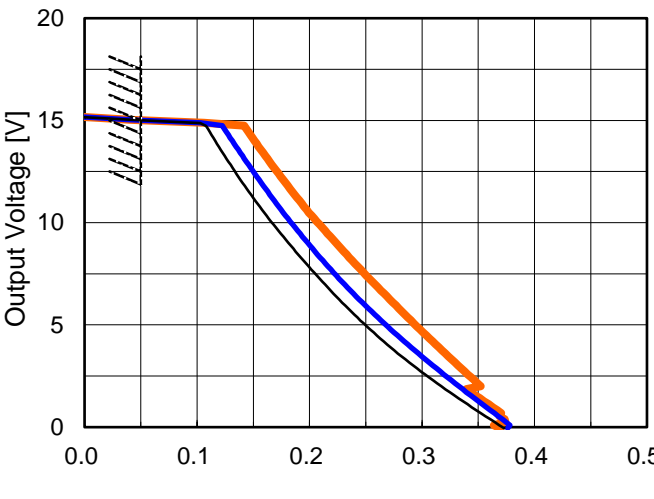
+15V:Load Current is same as -15V

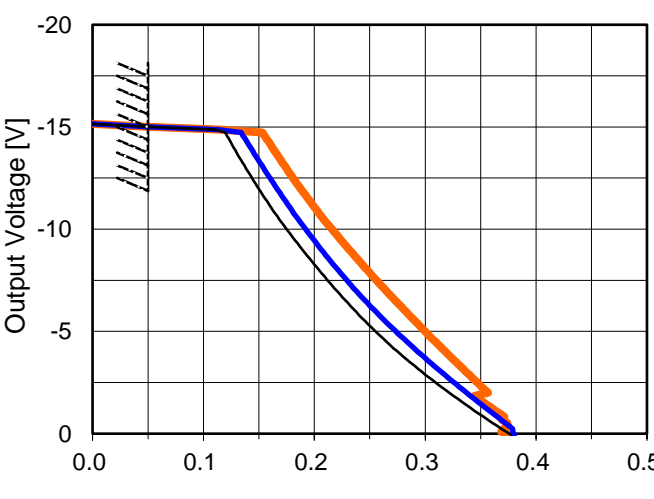
2.Values

		[ms]				
Load	Time	Td	Tr	Ts	Th	Tf
50 %		2.6	5.6	8.2	0.2	5.7
100 %		2.6	5.7	8.3	0.1	2.4



COSEL

Model		MUW1R54815		Temperature 25°C																																																								
Item		Overcurrent Protection		Testing Circuitry Figure A																																																								
Object		+15V0.05A																																																										
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				+15V:Rated Load Current																																																								

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



COSEL		Testing Circuitry Figure A
Model	MUW1R54815	
Item	Ambient Temperature Drift	
Object	+15V0.05A	

1.Values

Load 100%

Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 36V	Input Volt. 48V	Input Volt. 76V
-40	14.925	14.927	14.928
25	15.008	15.009	15.010
85	15.012	15.013	15.013

-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	28.4	28.4
25	28.4	28.4
85	28.4	28.4

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



COSEL		Testing Circuitry Figure A
Model	MUW1R54815	
Item	Ambient Temperature Drift	
Object	-15V0.05A	

1.Values

Load 100%

Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 36V	Input Volt. 48V	Input Volt. 76V
-40	-14.948	-14.948	-14.949
25	-15.033	-15.032	-15.032
85	-15.038	-15.038	-15.037

+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	28.4	28.4
25	28.4	28.4
85	28.4	28.4

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

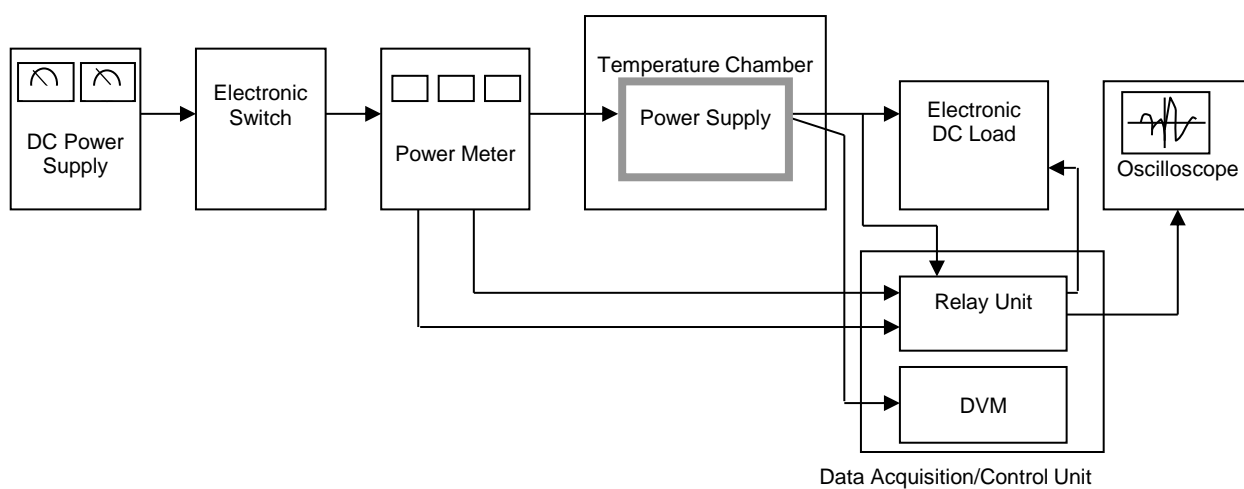


Figure A

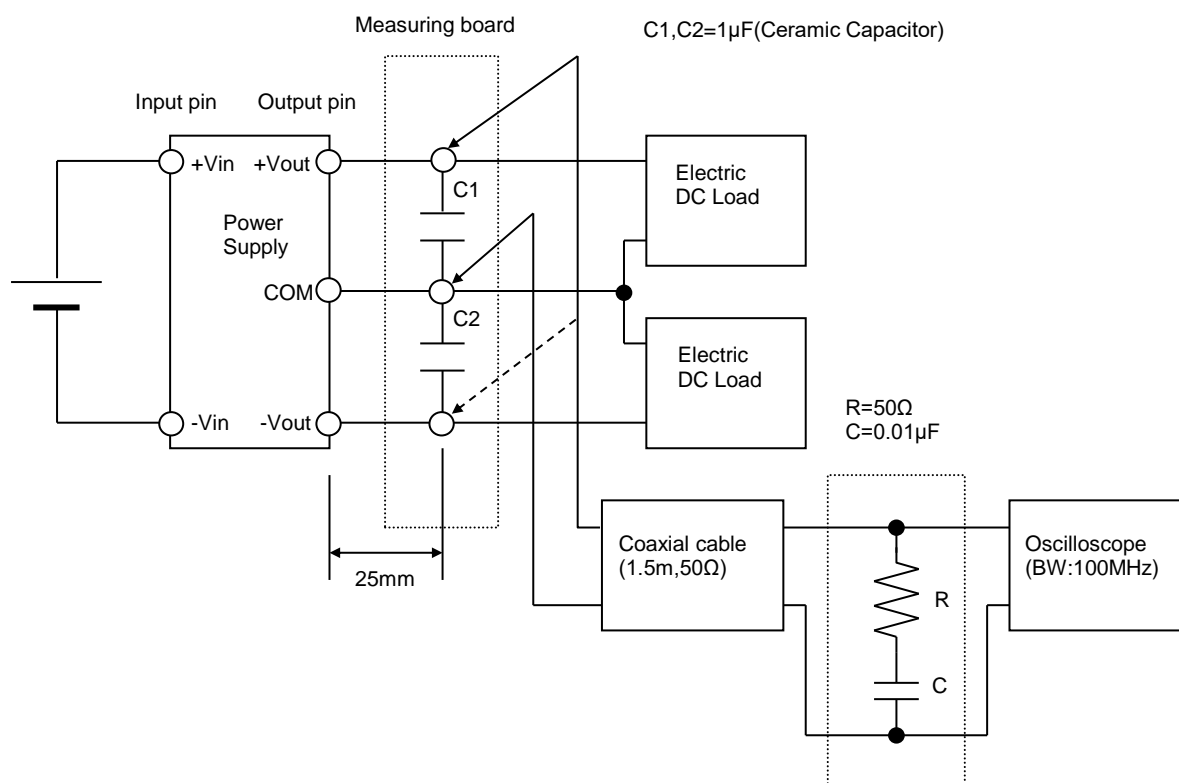


Figure B