For Reference

TEST DATA OF MUS32405

Regulated DC Power Supply
February 3, 2025

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COSEL CO.,LTD.

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CONTENTS

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

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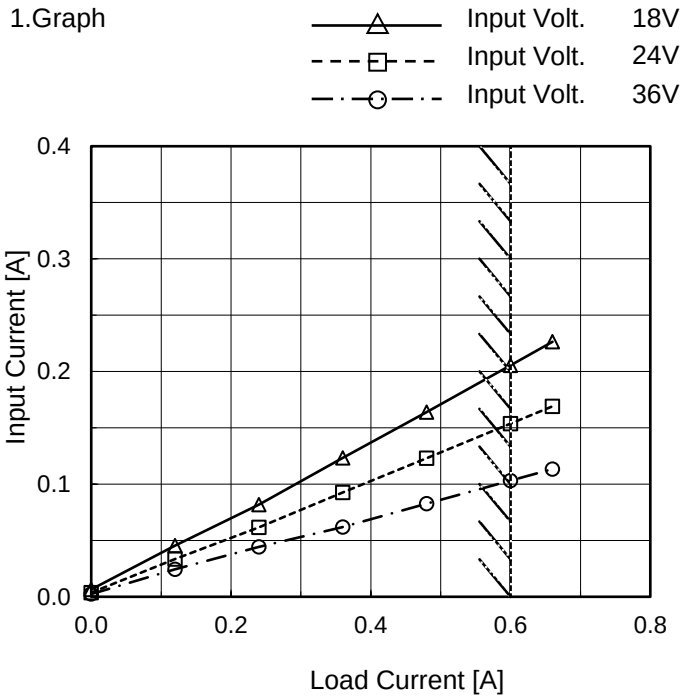
Model	MUS32405
Item	Input Current (by Load Current)
Object	———————

Temperature 25°C
Testing Circuitry Figure A

1.Graph



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

2.Values

Load Current [A]	Input Current [A]		
	Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]
0.00	0.007	0.004	0.002
0.12	0.045	0.033	0.024
0.24	0.082	0.062	0.044
0.36	0.123	0.093	0.062
0.48	0.164	0.123	0.083
0.60	0.205	0.154	0.103
0.66	0.226	0.169	0.113
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

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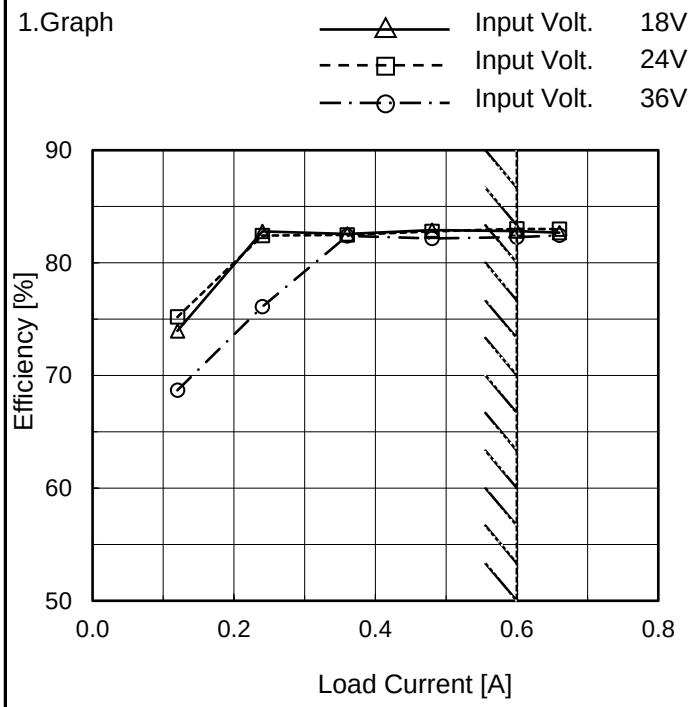
Model	MUS32405
Item	Efficiency (by Load Current)
Object	————————

Temperature 25°C
Testing Circuitry Figure A

1.Graph



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

2.Values

Load Current [A]	Efficiency [%]		
	Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]
0.00	-	-	-
0.12	74.0	75.2	68.7
0.24	82.8	82.4	76.1
0.36	82.6	82.5	82.4
0.48	82.9	82.8	82.2
0.60	82.8	83.0	82.3
0.66	82.7	83.0	82.4
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

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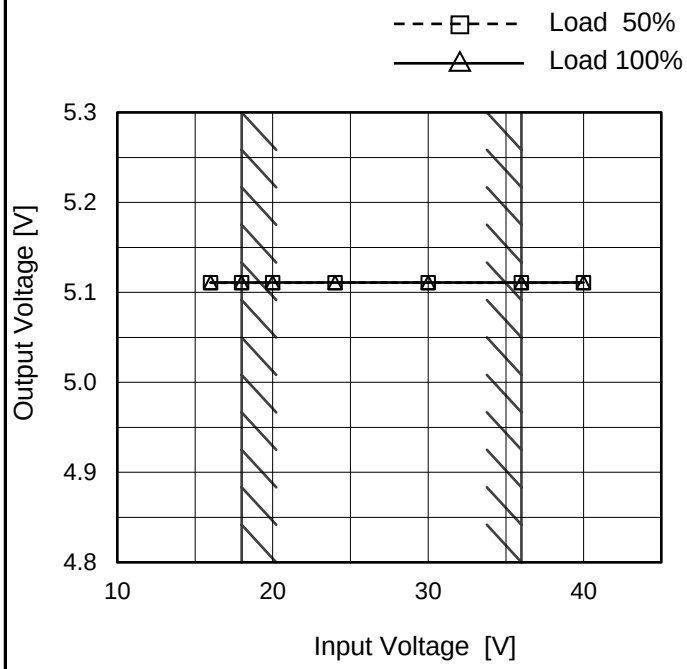
Model	MUS32405
Item	Line Regulation
Object	+5V0.6A

Temperature 25°C
Testing Circuitry Figure A

1.Graph



Note: Slanted line shows the range of the rated input voltage.

2.Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
16	5.111	5.111
18	5.111	5.111
20	5.111	5.111
24	5.111	5.111
30	5.111	5.111
36	5.111	5.111
40	5.111	5.111
--	-	-
--	-	-

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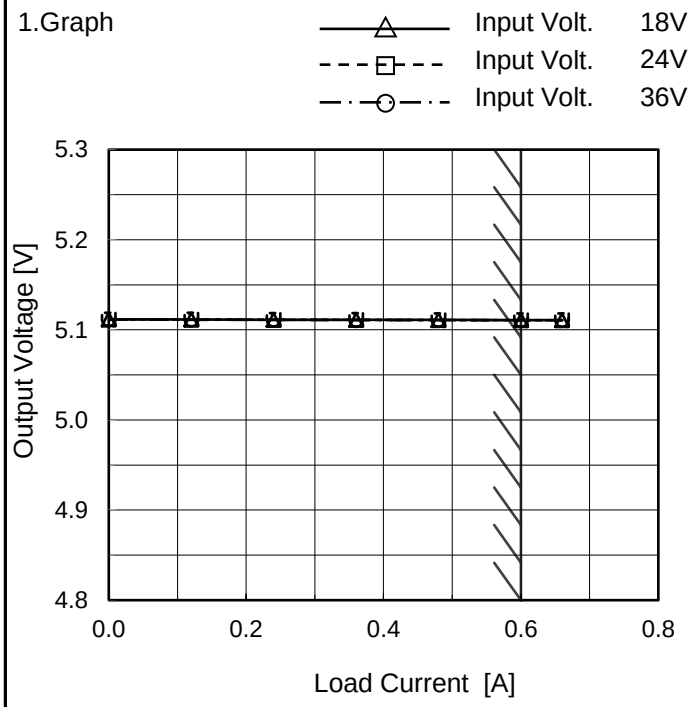
Model	MUS32405
Item	Load Regulation
Object	+5V0.6A

Temperature 25°C
Testing Circuitry Figure A

1.Graph



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

2.Values

Load Current [A]	Output Voltage [V]		
	Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]
0.00	5.112	5.112	5.112
0.12	5.112	5.111	5.111
0.24	5.111	5.111	5.111
0.36	5.111	5.111	5.111
0.48	5.111	5.111	5.111
0.60	5.111	5.111	5.111
0.66	5.111	5.111	5.111
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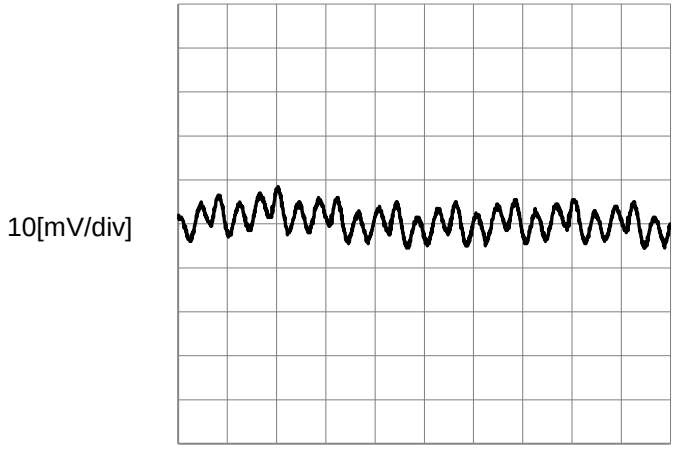
Item	Ripple-Noise
Object	+5V0.6A

Temperature 25°C
Testing Circuitry Figure B

1.Graph

Input Voltage 24V
Load 100%

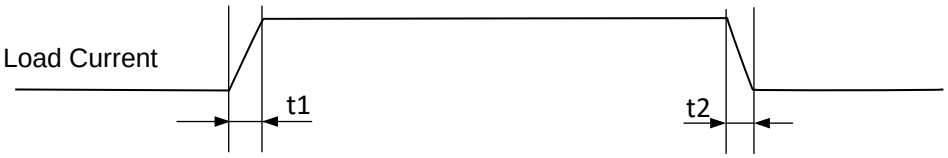


BC-12058

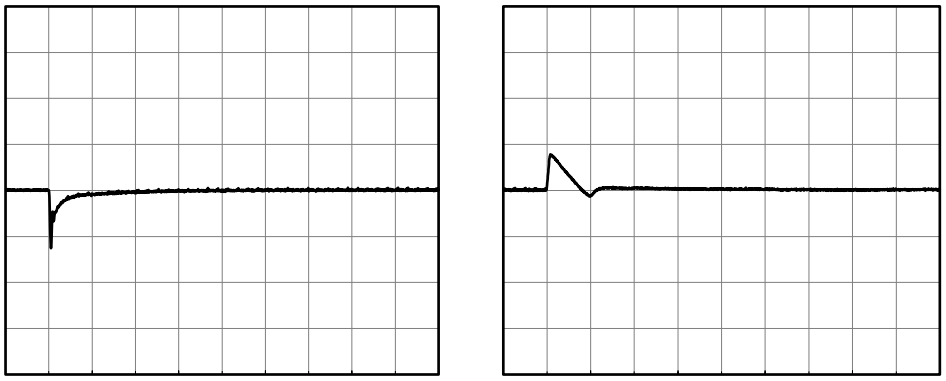
Model	MUS32405	
Item	Dynamic Load Response	Temperature 25°C Testing Circuitry Figure A
Object	+5V0.6A	

Input Volt. 24 V
Cycle 100 ms

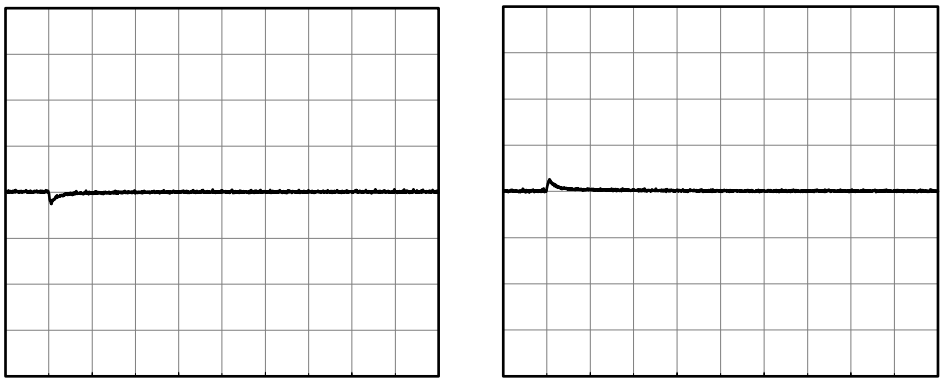
Response. t1=t2=50µs. Typ



Load 0%(0A) ⟷ Load 100%(0.6A)



Load 50%(0.3A) ⟷ Load 100%(0.6A)



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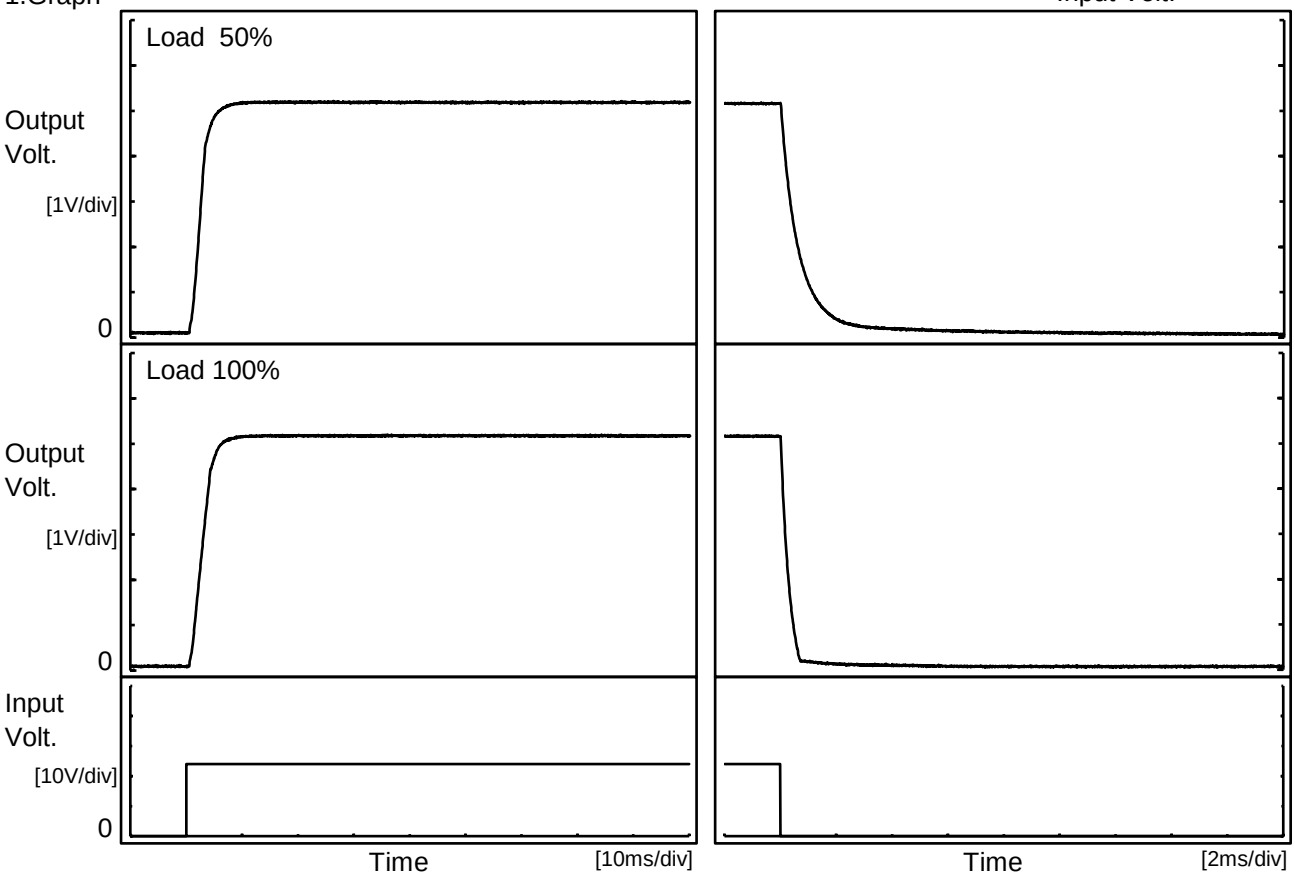
Model	MUS32405
Item	Rise and Fall Time
Object	+5V0.6A

Temperature 25°C
Testing Circuitry Figure A

1.Graph

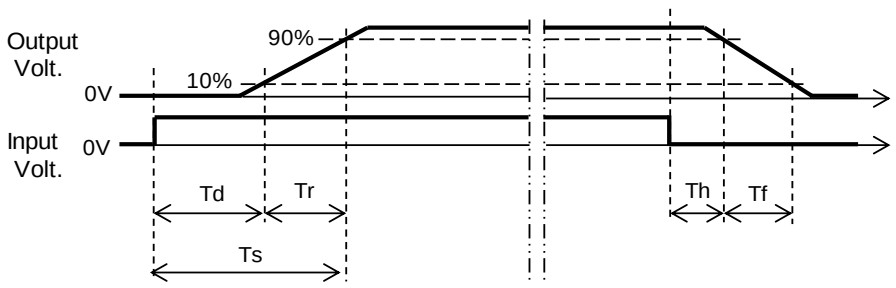
Input Volt. 24 V



2.Values

[ms]

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	1.1	3.0	4.1	0.1	1.6
100 %	1.1	3.6	4.7	0.1	0.5



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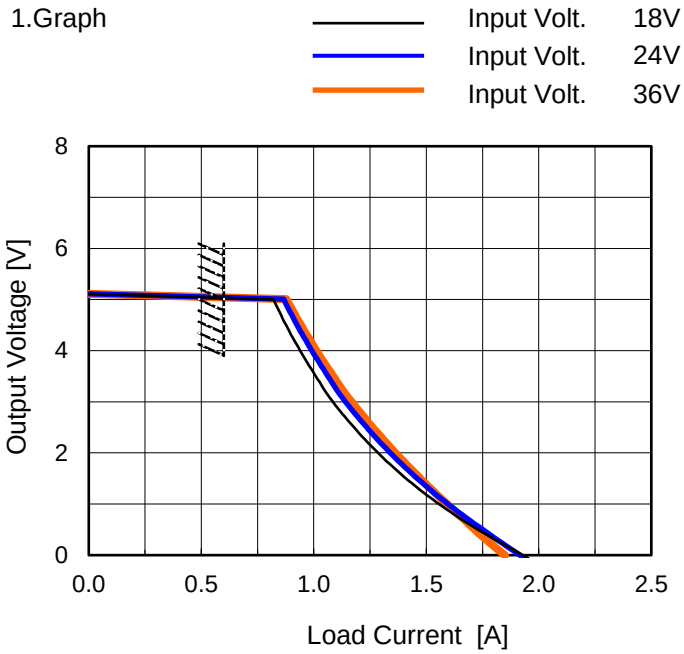
Model	MUS32405
Item	Overcurrent Protection
Object	+5V0.6A

Temperature 25°C
Testing Circuitry Figure A

1.Graph



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

2.Values

Output Voltage [V]	Load Current [A] Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]
4.75	0.85	0.89	0.91
4.50	0.82	0.87	0.88
4.00	0.94	0.99	1.01
3.50	1.01	1.06	1.08
3.00	1.08	1.14	1.16
2.50	1.18	1.23	1.26
2.00	1.28	1.33	1.36
1.50	1.40	1.45	1.46
1.00	1.54	1.58	1.58
0.50	1.71	1.73	1.70
0.00	1.95	1.94	1.85
--	-	-	-

Model	MUS32405	
Item	Ambient Temperature Drift	Testing Circuitry Figure A
Object	+5V0.6A	

1.Values

Load 100%

Ambient Temperature[℃]	Output Voltage [V]		
	Input Volt. 18V	Input Volt. 24V	Input Volt. 36V
-40	5.090	5.091	5.092
25	5.114	5.114	5.114
85	5.108	5.108	5.108

Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A
Object	+5V0.6A	

1.Values

Ambient Temperature[℃]	Input Voltage [V]	
	Load 50%	Load 100%
-40	13.9	13.9
25	13.9	13.9
85	13.9	13.9

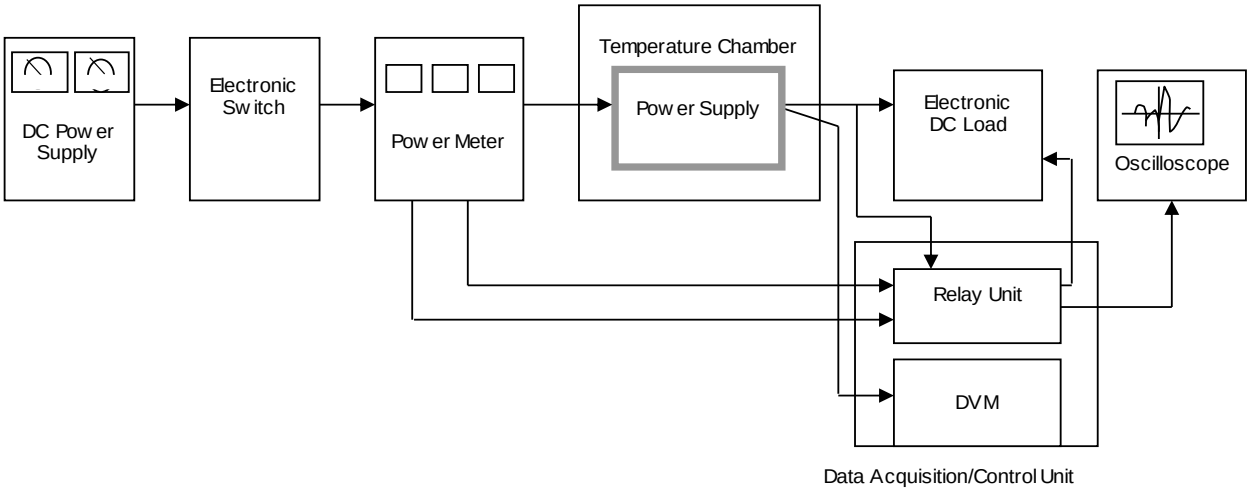


Figure A

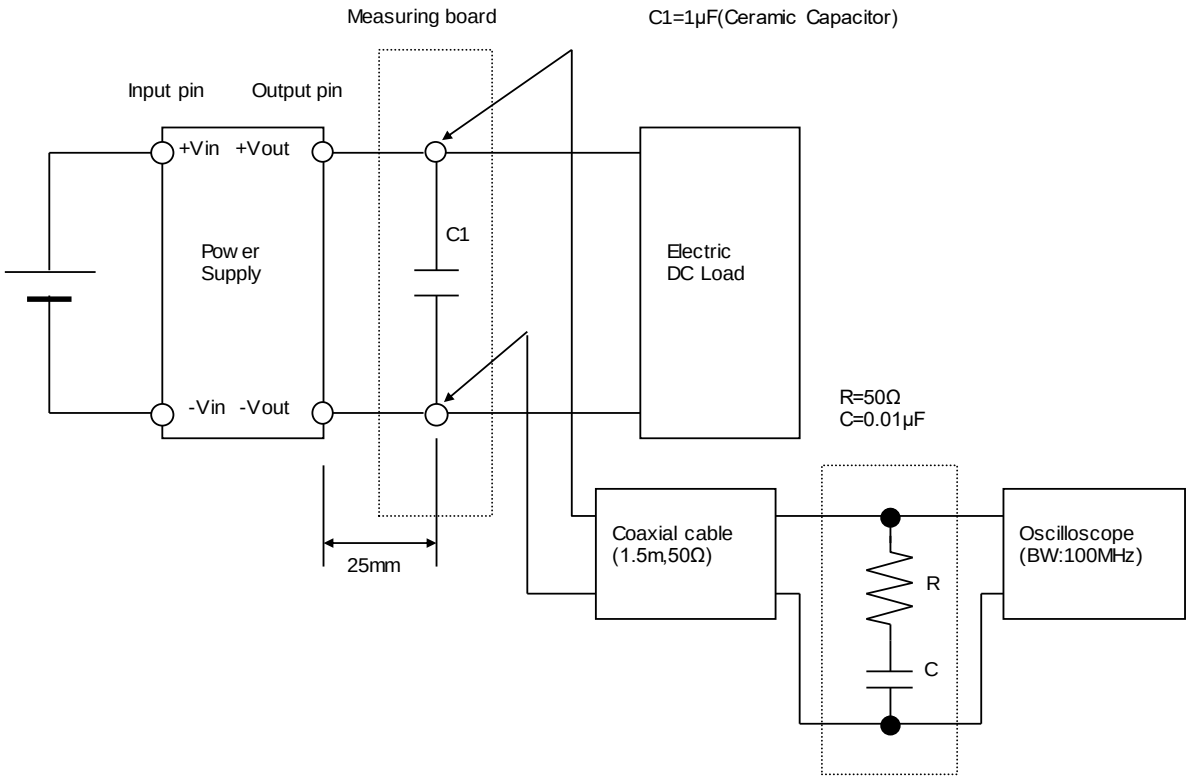


Figure B