For Reference

TEST DATA OF MUS32415

Regulated DC Power Supply
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COSEL CO.,LTD.

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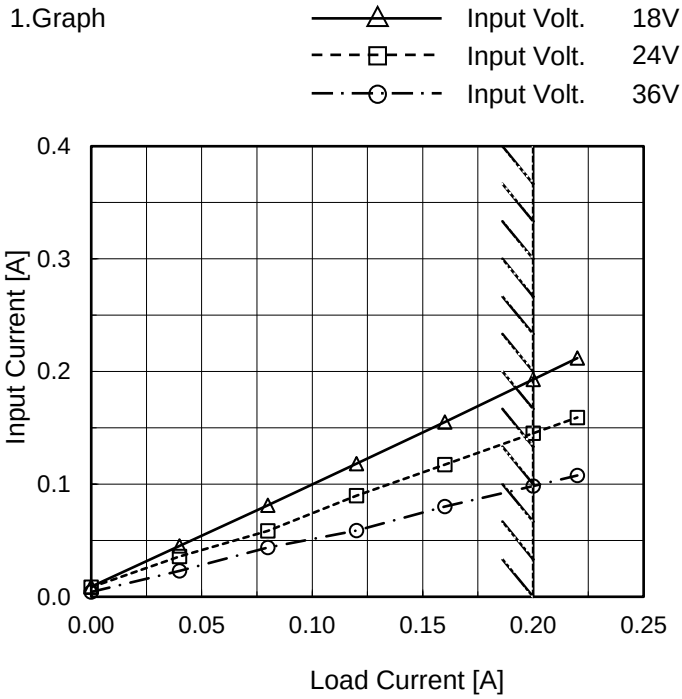
Model	MUS32415
Item	Input Current (by Load Current)
Object	————————

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	0.009	0.009	0.004
0.04	0.045	0.036	0.023
0.08	0.081	0.059	0.044
0.12	0.118	0.090	0.059
0.16	0.155	0.117	0.080
0.20	0.193	0.145	0.098
0.22	0.212	0.159	0.108
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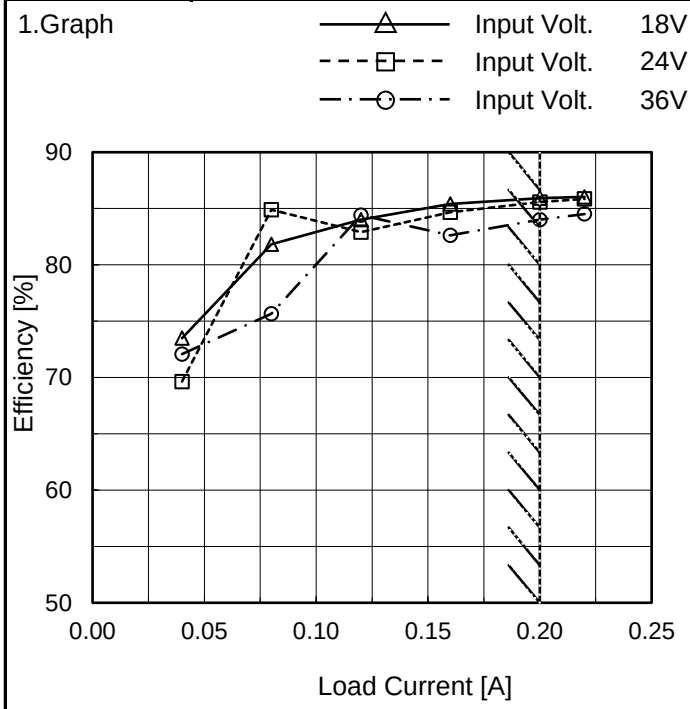
Model	MUS32415
Item	Efficiency (by Load Current)
Object	———————

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	-	-	-
0.04	73.5	69.6	72.1
0.08	81.8	84.9	75.7
0.12	84.0	82.9	84.4
0.16	85.4	84.7	82.6
0.20	85.9	85.6	84.0
0.22	86.0	85.9	84.5
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--	-	-	-
--	-	-	-
--	-	-	-

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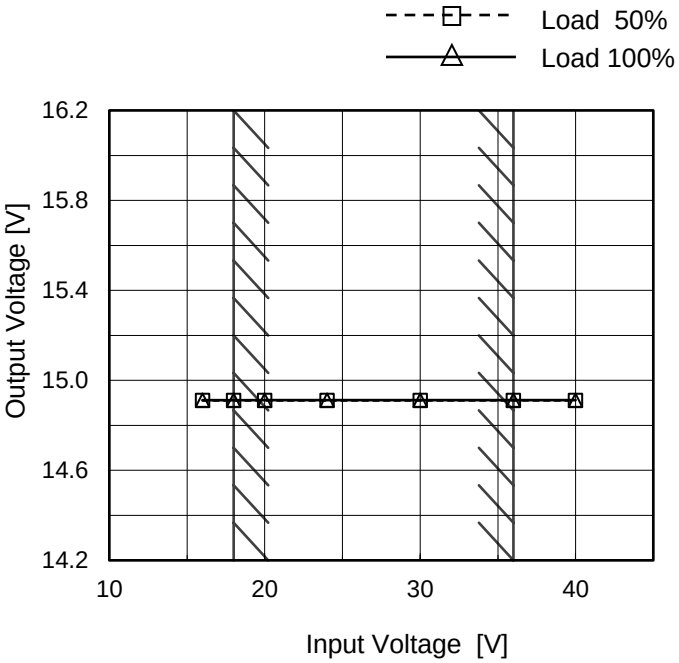
Model	MUS32415
Item	Line Regulation
Object	+15V0.2A

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	14.911	14.912
18	14.911	14.912
20	14.911	14.912
24	14.911	14.912
30	14.911	14.912
36	14.911	14.912
40	14.911	14.912
--	-	-
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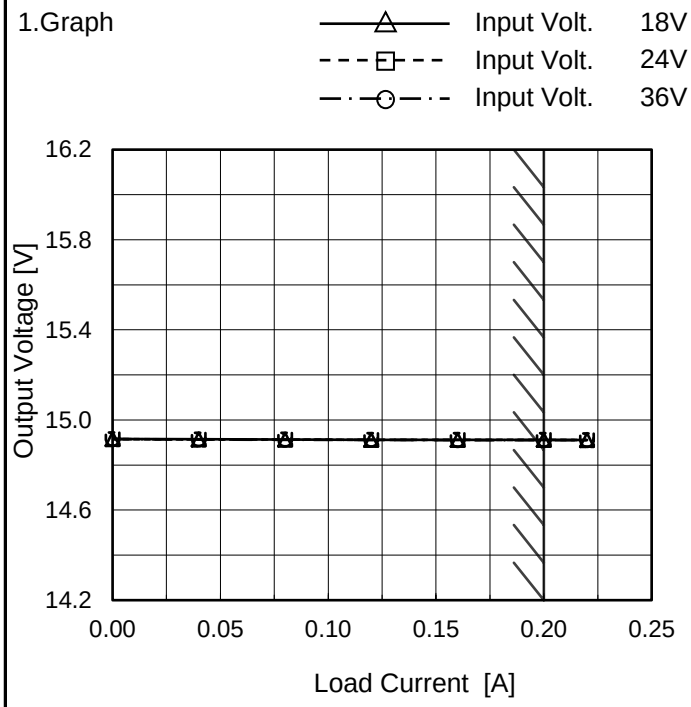
COSEL

Model	MUS32415
Item	Load Regulation
Object	+15V0.2A

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	14.916	14.915	14.915
0.04	14.914	14.914	14.913
0.08	14.913	14.913	14.912
0.12	14.912	14.912	14.912
0.16	14.911	14.911	14.911
0.20	14.911	14.911	14.911
0.22	14.911	14.911	14.911
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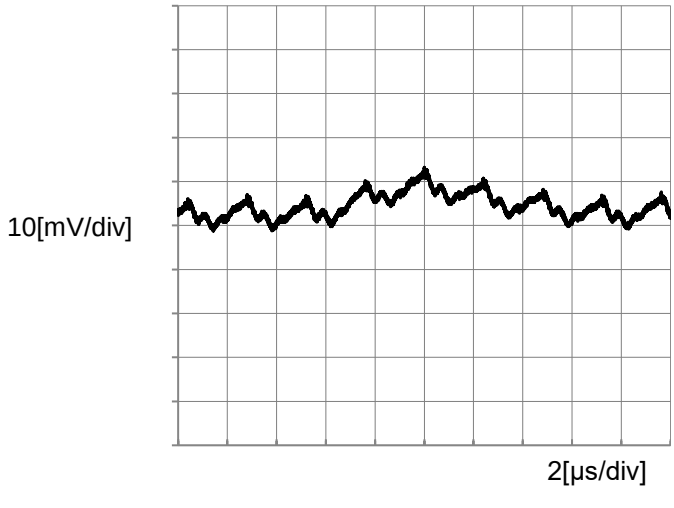
Item	Ripple-Noise
Object	+15V0.2A

Temperature 25°C
Testing Circuitry Figure B

1.Graph

Input Voltage 24V
Load 100%



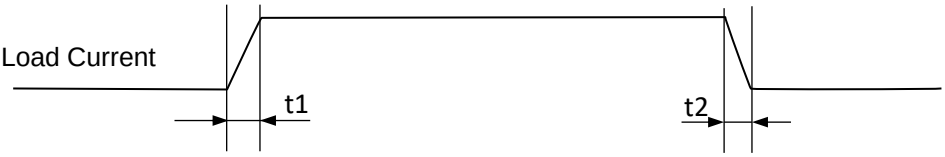
BC-12060

Model	MUS32415	
Item	Dynamic Load Response	Temperature 25°C Testing Circuitry Figure A
Object	+15V0.2A	

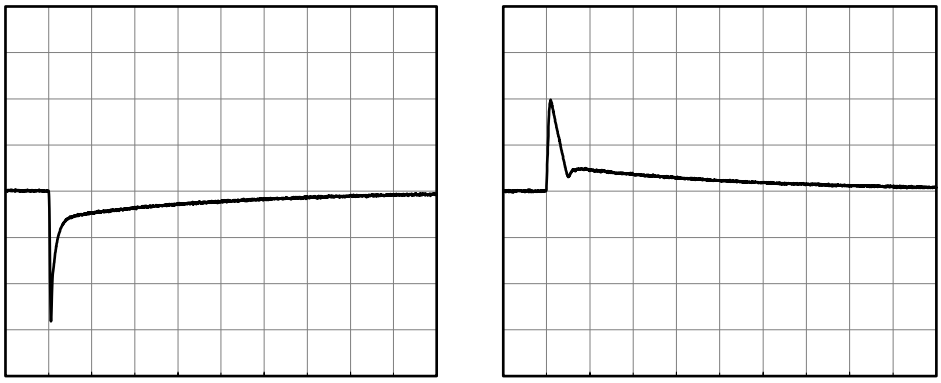
Input Volt. 24 V

Cycle 1000 ms

Response. t1=t2=50µs. Typ



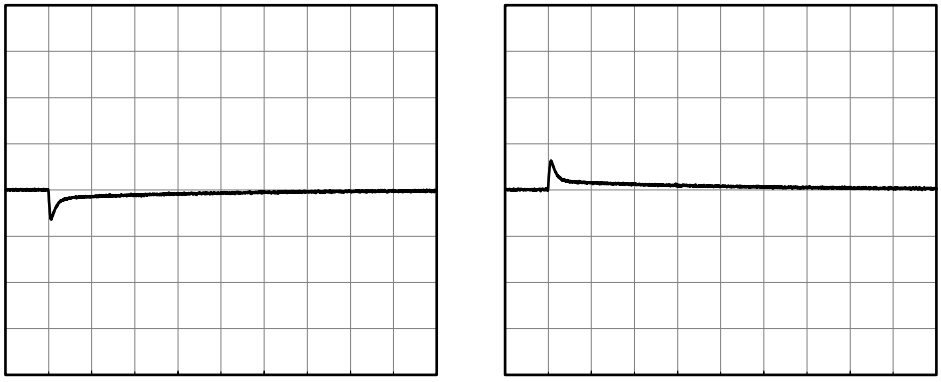
Load 0%(0A) ←→
Load 100%(0.2A)



200[mV/div]

1[ms/div] 1[ms/div]

Load 50%(0.1A) ←→
Load 100%(0.2A)



200[mV/div]

1[ms/div] 1[ms/div]

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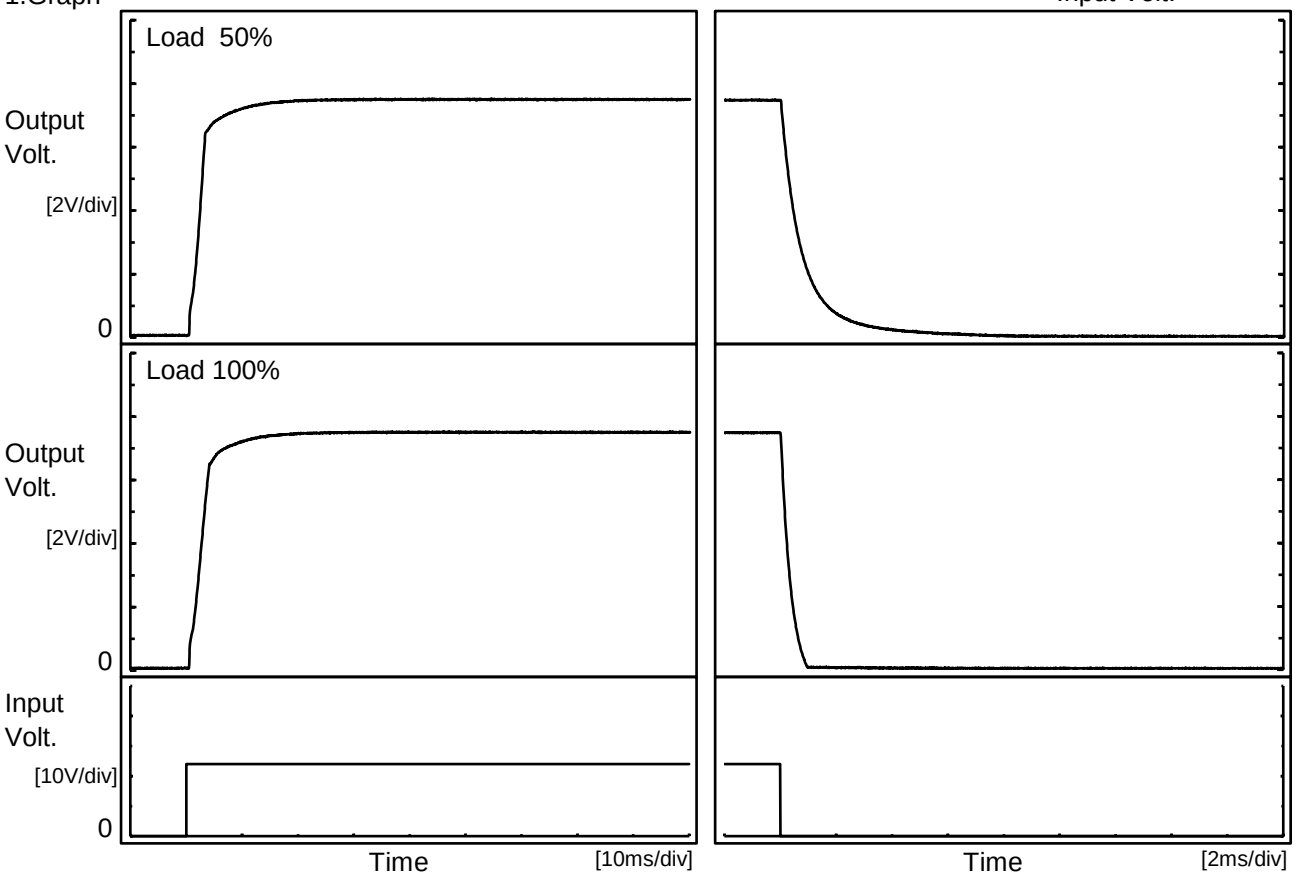
Model	MUS32415
Item	Rise and Fall Time
Object	+15V0.2A

Temperature 25°C
Testing Circuitry Figure A

1.Graph

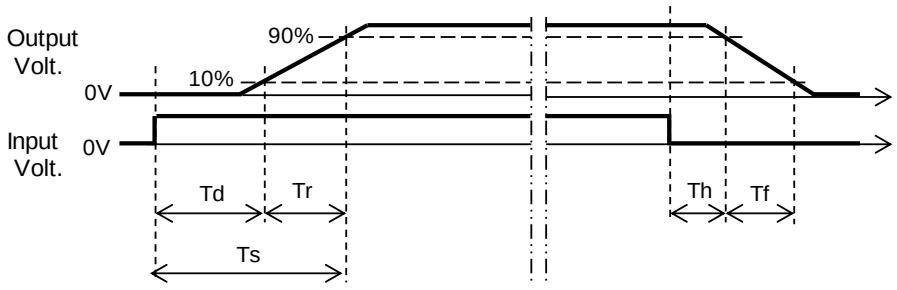
Input Volt. 24 V



2.Values

[ms]

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	0.7	4.2	4.9	0.1	1.9
100 %	0.7	4.7	5.4	0.1	0.6



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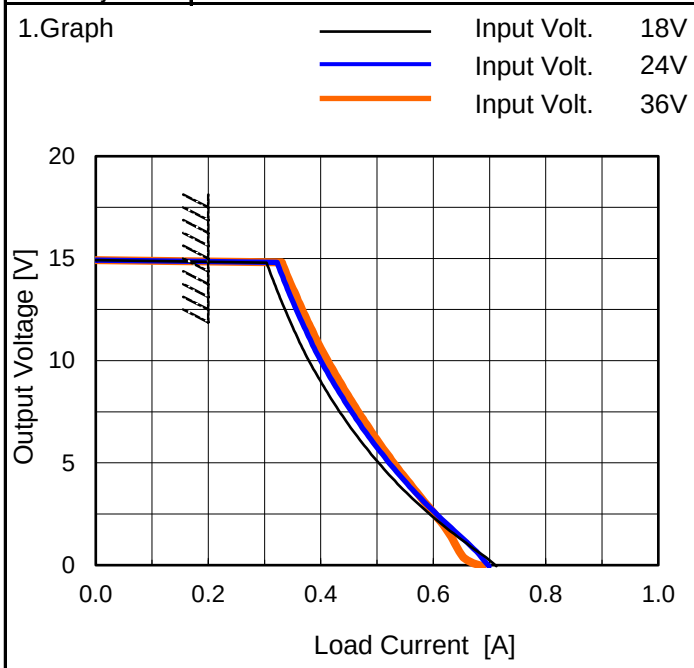
Model	MUS32415
Item	Overcurrent Protection
Object	+15V0.2A

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]
14.25	0.31	0.33	0.34
13.50	0.32	0.34	0.35
12.00	0.34	0.36	0.37
10.50	0.37	0.39	0.40
9.00	0.40	0.42	0.43
7.50	0.43	0.45	0.46
6.00	0.47	0.49	0.50
4.50	0.52	0.53	0.54
3.00	0.57	0.58	0.58
1.50	0.64	0.64	0.63
0.00	0.71	0.70	0.69
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Model	MUS32415	
Item	Ambient Temperature Drift	Testing Circuitry Figure A
Object	+15V0.2A	

1.Values

Load 100%

Ambient Temperature[℃]	Output Voltage [V]		
	Input Volt. 18V	Input Volt. 24V	Input Volt. 36V
-40	14.810	14.813	14.814
25	14.910	14.910	14.911
85	14.943	14.943	14.943

Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A
Object	+15V0.2A	

1.Values

Ambient Temperature[℃]	Input Voltage [V]	
	Load 50%	Load 100%
-40	13.8	13.8
25	13.8	13.8
85	13.8	13.8

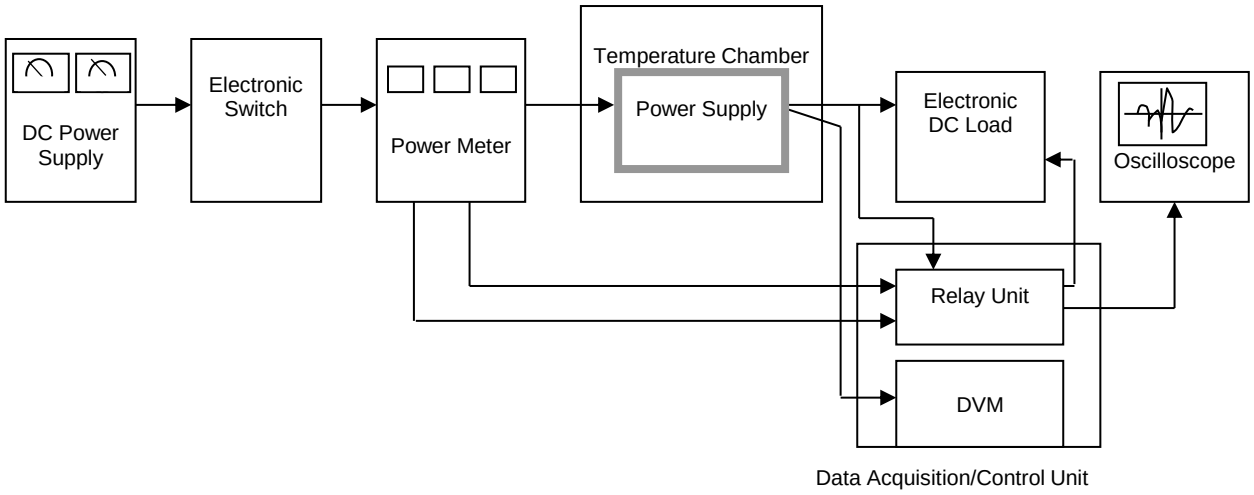

Figure A

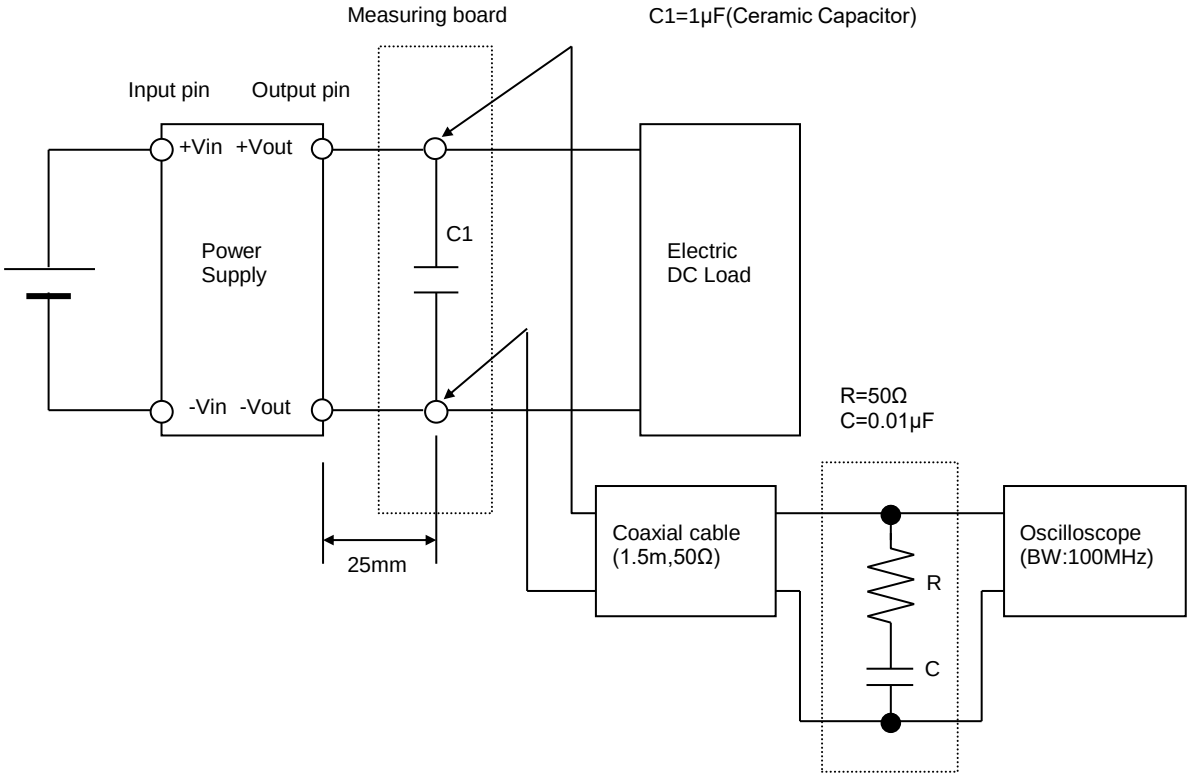

Figure B