For Reference

TEST DATA OF MUS3123R3

Regulated DC Power Supply
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COSEL CO.,LTD.

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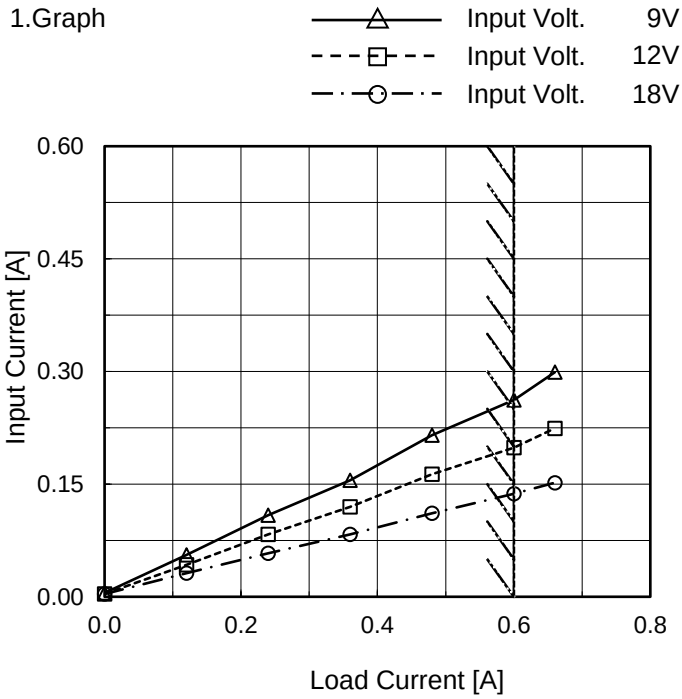
Model	MUS3123R3
Item	Input Current (by Load Current)
Object	———————

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. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]
0.00	0.005	0.004	0.004
0.12	0.056	0.042	0.031
0.24	0.109	0.083	0.058
0.36	0.155	0.120	0.083
0.48	0.215	0.163	0.111
0.60	0.262	0.199	0.137
0.66	0.299	0.224	0.152
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--	-	-	-
--	-	-	-

BC-12057

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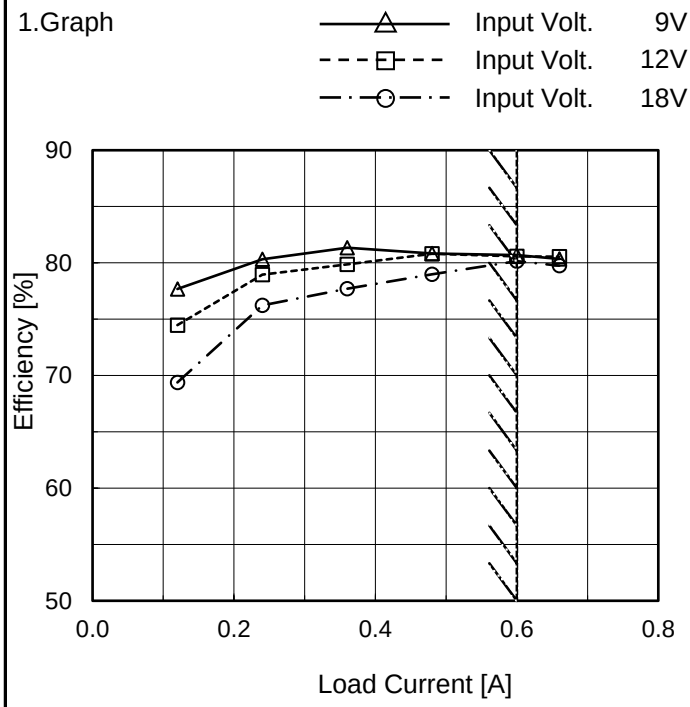
Model	MUS3123R3
Item	Efficiency (by Load Current)
Object	———————

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. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]
0.00	-	-	-
0.12	77.7	74.5	69.4
0.24	80.3	79.0	76.2
0.36	81.3	79.9	77.7
0.48	80.8	80.8	79.0
0.60	80.7	80.6	80.1
0.66	80.3	80.5	79.7
--	-	-	-
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--	-	-	-
--	-	-	-

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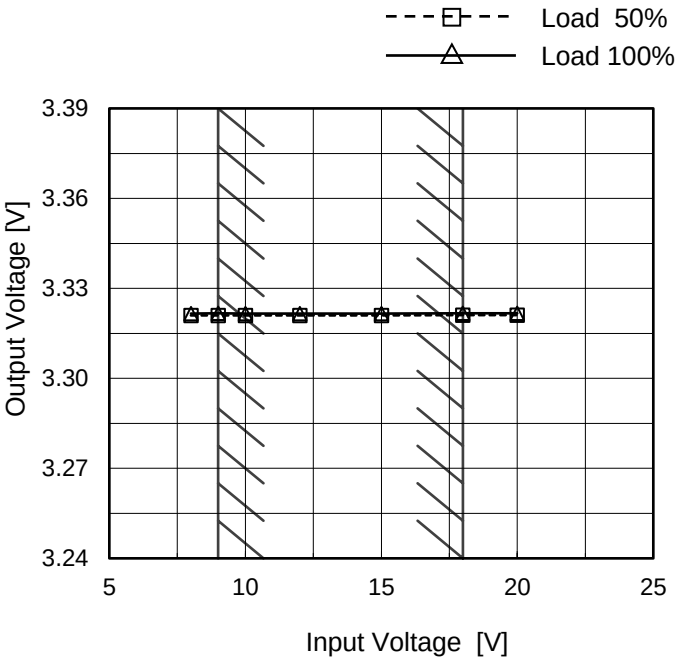
Model	MUS3123R3
Item	Line Regulation
Object	+3.3V0.6A

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%
8	3.321	3.322
9	3.321	3.322
10	3.321	3.322
12	3.321	3.322
15	3.321	3.322
18	3.321	3.322
20	3.321	3.322
--	-	-
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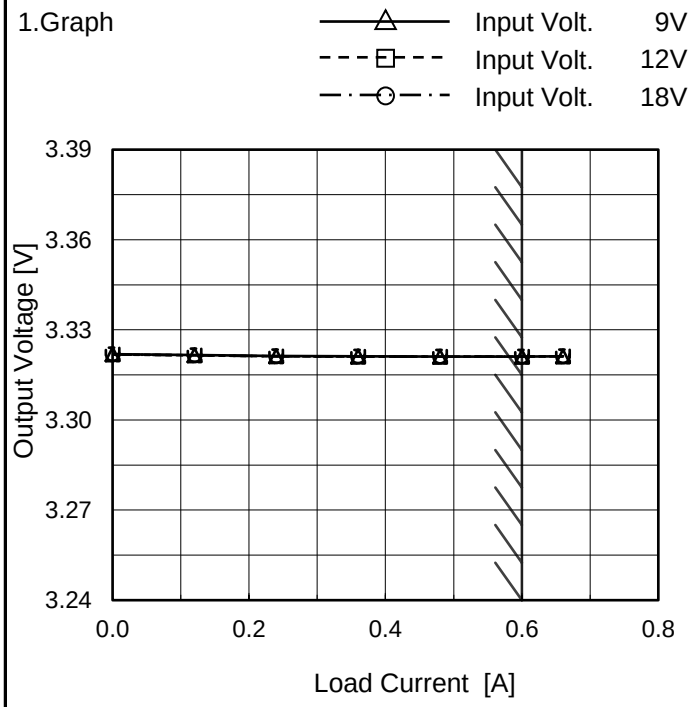
COSEL

Model	MUS3123R3
Item	Load Regulation
Object	+3.3V0.6A

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. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]
0.00	3.322	3.322	3.322
0.12	3.322	3.322	3.322
0.24	3.321	3.321	3.321
0.36	3.321	3.321	3.321
0.48	3.321	3.321	3.321
0.60	3.321	3.321	3.321
0.66	3.321	3.321	3.321
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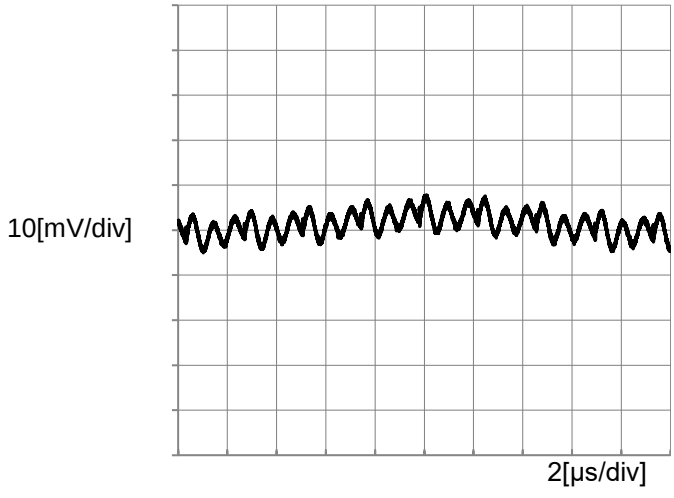
Item	Ripple-Noise
Object	+3.3V0.6A

Temperature 25°C
Testing Circuitry Figure B

1.Graph

Input Voltage 12V
Load 100%



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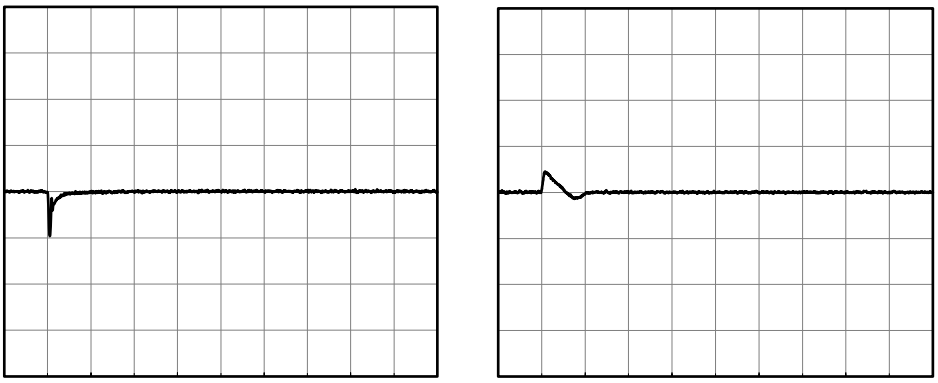
Model	MUS3123R3	
Item	Dynamic Load Response	Temperature 25°C Testing Circuitry Figure A
Object	+3.3V0.6A	

Input Volt. 12 V

Cycle 1000 ms

Response. t1=t2=50µs. Typ

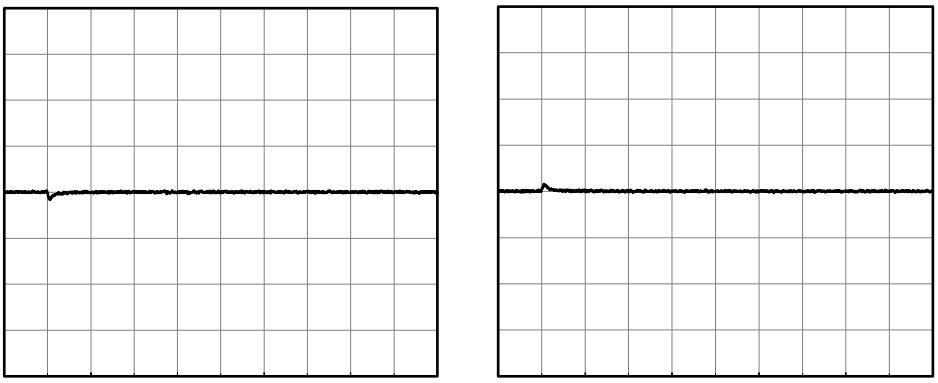
Load 0%(0A) ←→
Load 100%(0.6A)



200[mV/div]

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

Load 50%(0.3A) ←→
Load 100%(0.6A)



200[mV/div]

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

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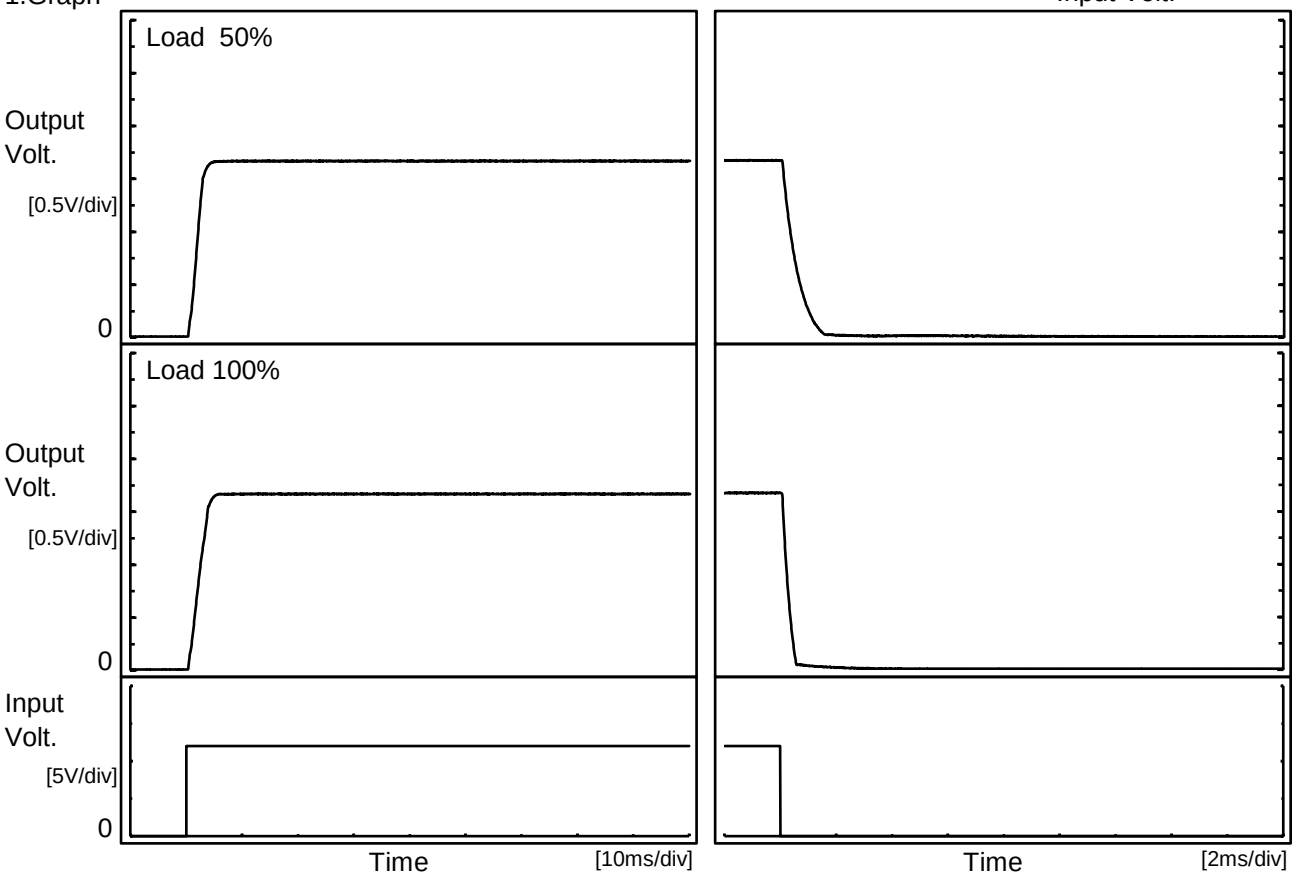
Model	MUS3123R3
Item	Rise and Fall Time
Object	+3.3V0.6A

Temperature 25°C
Testing Circuitry Figure A

1.Graph

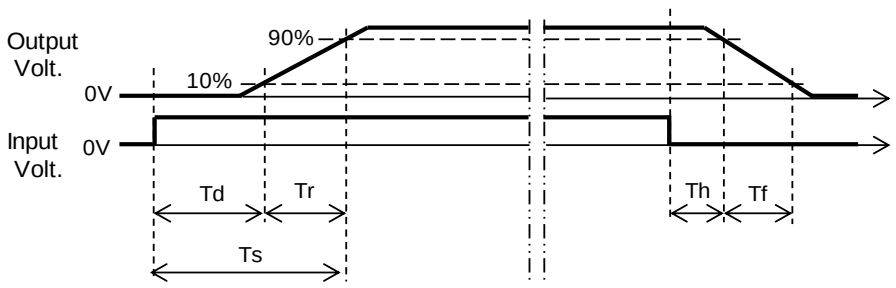
Input Volt. 12 V



2.Values

[ms]

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	0.7	2.3	3.0	0.1	1.0
100 %	0.8	3.1	3.9	0.1	0.4



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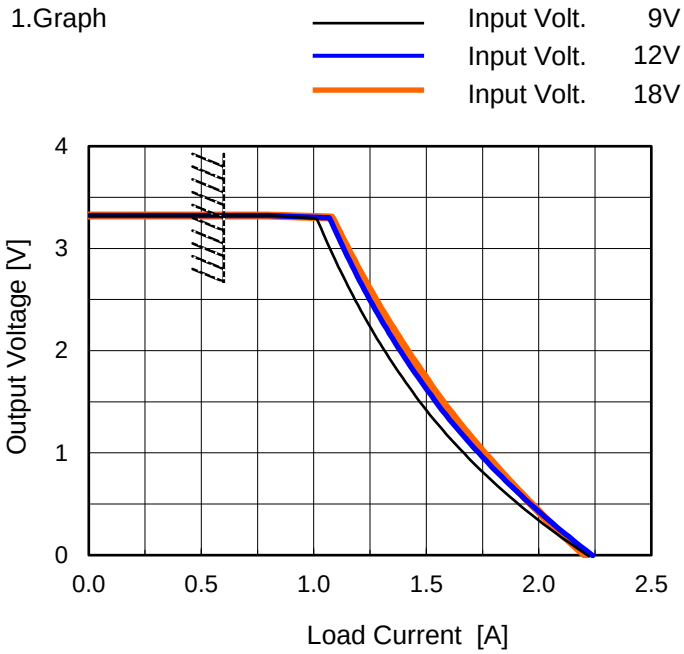
Model	MUS3123R3
Item	Overcurrent Protection
Object	+3.3V0.6A

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. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]
3.14	1.04	1.11	1.12
2.97	0.82	1.14	1.15
2.64	1.14	1.21	1.24
2.31	1.22	1.30	1.32
1.98	1.31	1.39	1.42
1.65	1.41	1.49	1.52
1.32	1.54	1.60	1.63
0.99	1.67	1.73	1.75
0.66	1.82	1.87	1.89
0.33	1.99	2.04	2.03
0.00	2.22	2.24	2.21
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Model	MUS3123R3	
Item	Ambient Temperature Drift	Testing Circuitry Figure A
Object	+3.3V0.6A	

1.Values

Load 100%

Ambient Temperature[℃]	Output Voltage [V]		
	Input Volt. 9V	Input Volt. 12V	Input Volt. 18V
-40	3.301	3.302	3.303
25	3.325	3.325	3.325
85	3.329	3.329	3.329

Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A
Object	+3.3V0.6A	

1.Values

Ambient Temperature[℃]	Input Voltage [V]	
	Load 50%	Load 100%
-40	7.1	7.0
25	7.1	7.1
85	7.1	7.1

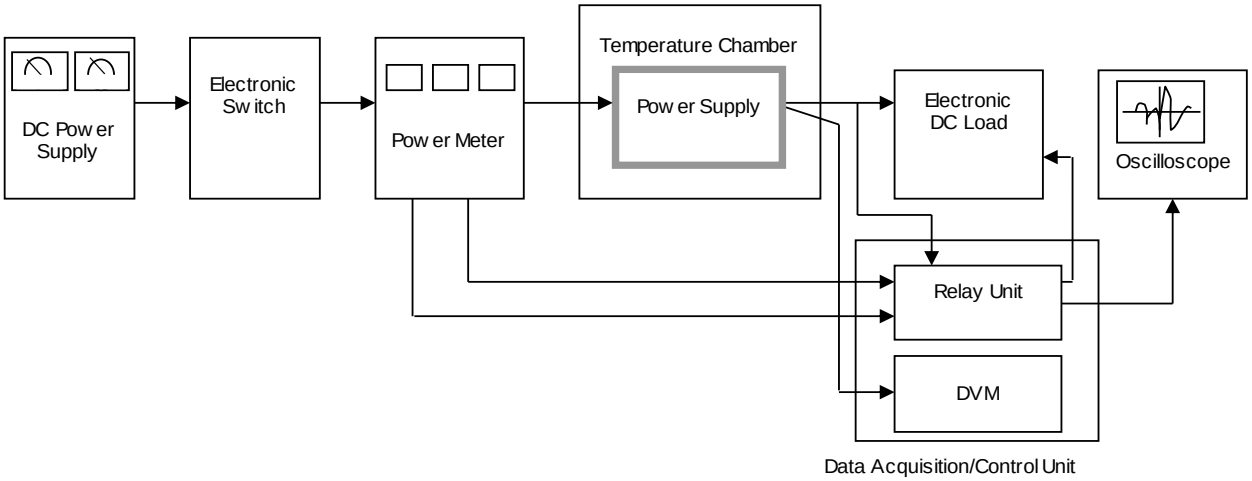

Figure A

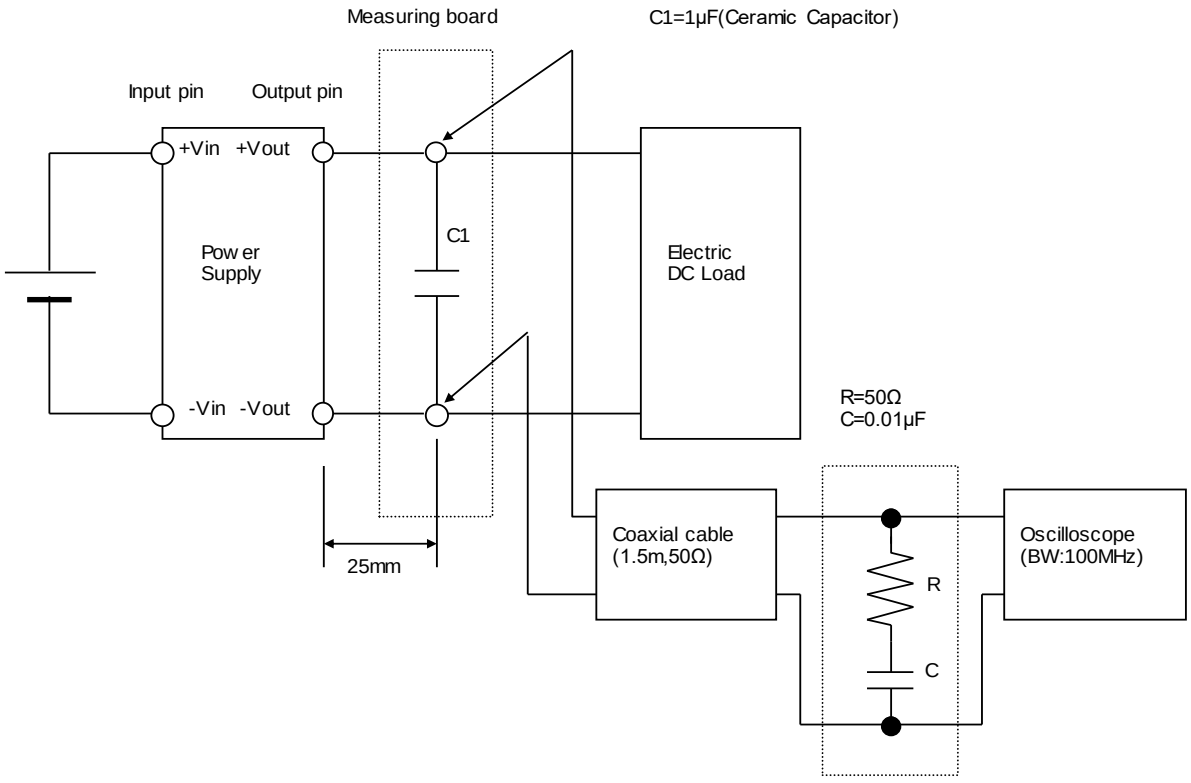

Figure B