



TEST DATA OF MHFS34812

Regulated DC Power Supply
June 2, 2020

Approved by : Kenichi Tsukada
Kenichi Tsukada Design Manager

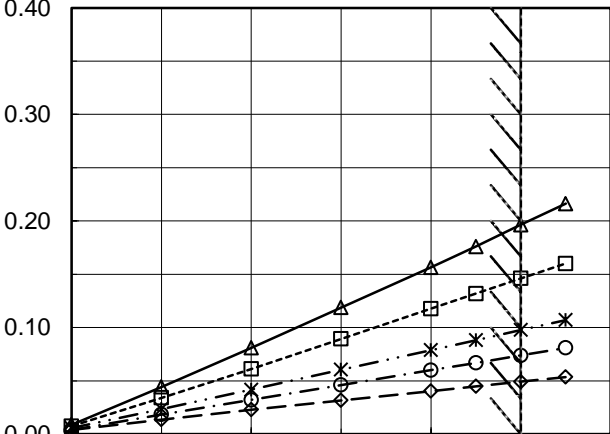
Prepared by : Yoshihiko Saeki
Yoshihiko Saeki Design Engineer

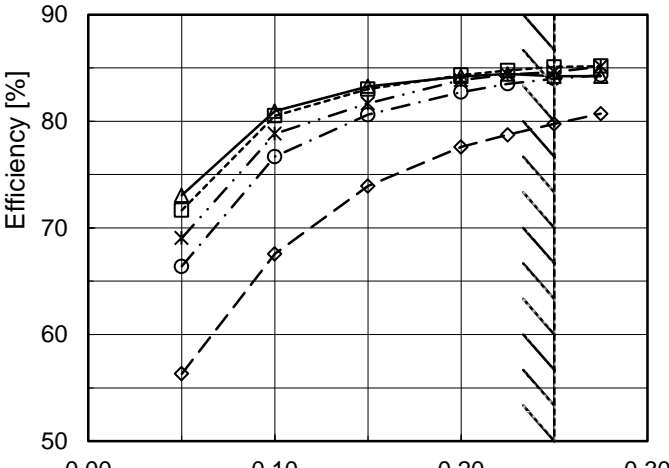
COSEL CO.,LTD.

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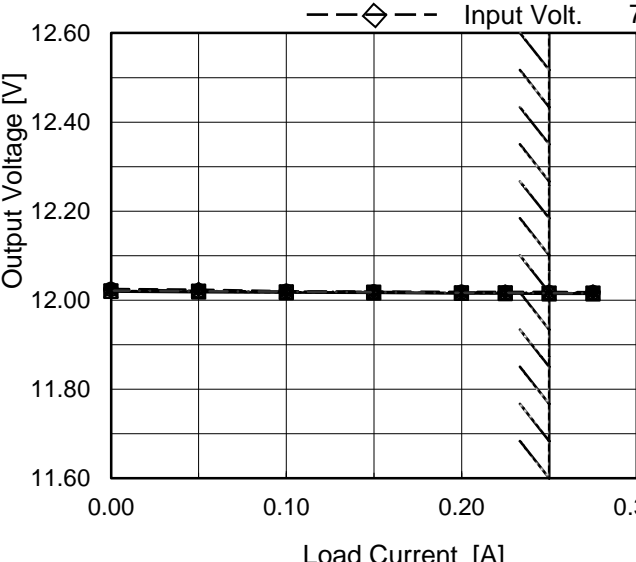
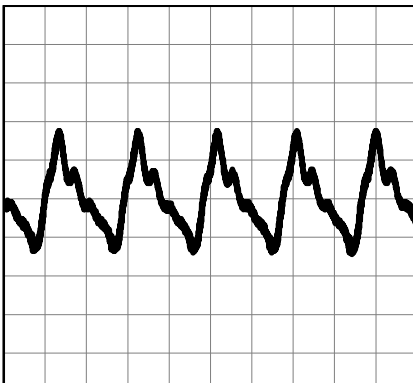
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Model		MHFS34812	Temperature 25°C	
Item		Load Regulation	Testing Circuitry Figure A	
Object		+12V0.25A	2.Values	
1.Graph		<div> <div> <div>—△—</div> <div>Input Volt.</div> <div>18V</div> </div> <div> <div>---□---</div> <div>Input Volt.</div> <div>24V</div> </div> <div> <div>-·-·*·-·-</div> <div>Input Volt.</div> <div>36V</div> </div> <div> <div>-·-○-·-</div> <div>Input Volt.</div> <div>48V</div> </div> <div> <div>---◇---</div> <div>Input Volt.</div> <div>76V</div> </div> </div>  <p>Note: Slanted line shows the range of the rated load current.</p>		
Item		Ripple-Noise	Temperature 25°C	
Object		+12V0.25A	Testing Circuitry Figure B	
1.Graph		<div> <div>Input Voltage</div> <div>48V</div> </div> <div> <div>Load</div> <div>100%</div> </div> <div> <div>10[mV/div]</div>  <div>1[μs/div]</div> </div>		

Load Current [A]	Output Voltage [V]				
	Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]
0.000	12.020	12.021	12.022	12.024	12.025
0.050	12.018	12.020	12.021	12.021	12.024
0.100	12.017	12.018	12.019	12.020	12.020
0.150	12.016	12.018	12.018	12.018	12.019
0.200	12.015	12.016	12.017	12.018	12.019
0.225	12.015	12.016	12.017	12.017	12.019
0.250	12.014	12.016	12.016	12.017	12.018
0.275	12.014	12.016	12.016	12.017	12.018
--	-	-	-	-	-
--	-	-	-	-	-
--	-	-	-	-	-

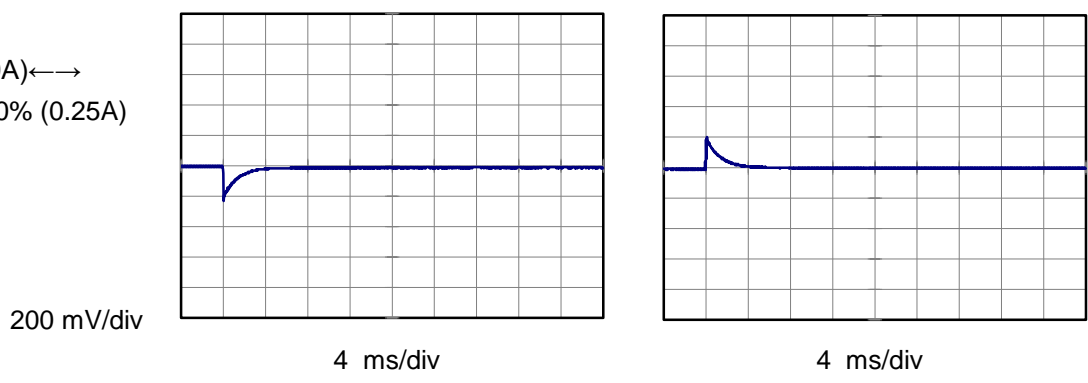


Model	MHFS34812		
Item	Dynamic Load Response	Temperature	25°C
		Testing Circuitry	Figure A
Object	+12V0.25A		

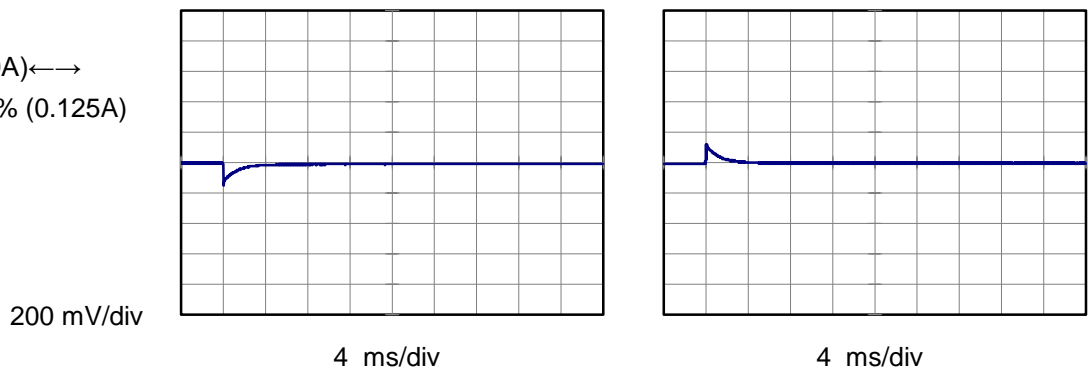
Input Volt. 48 V
Cycle 100 ms



Min.Load (0A) ←→
Load 100% (0.25A)



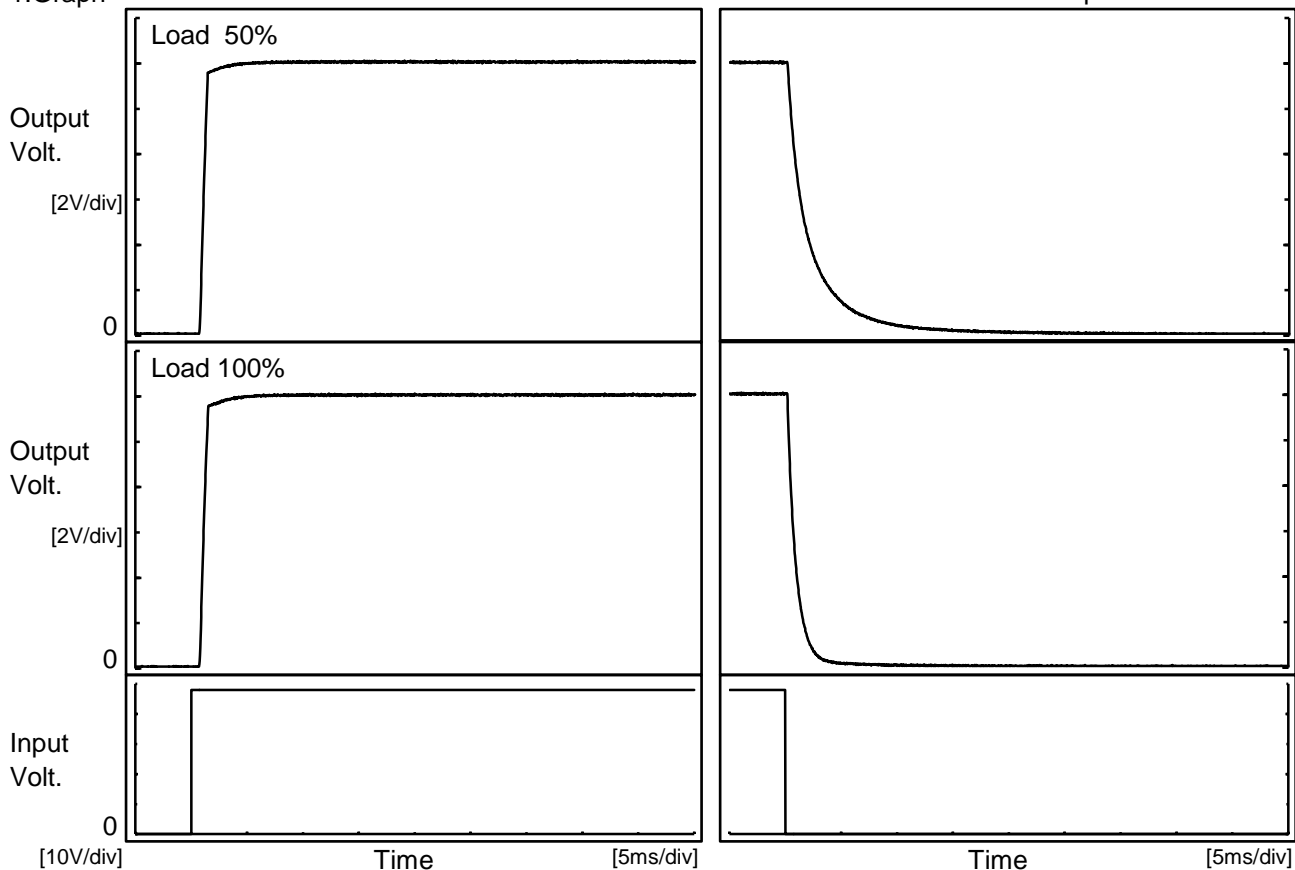
Min.Load (0A) ←→
Load 50% (0.125A)





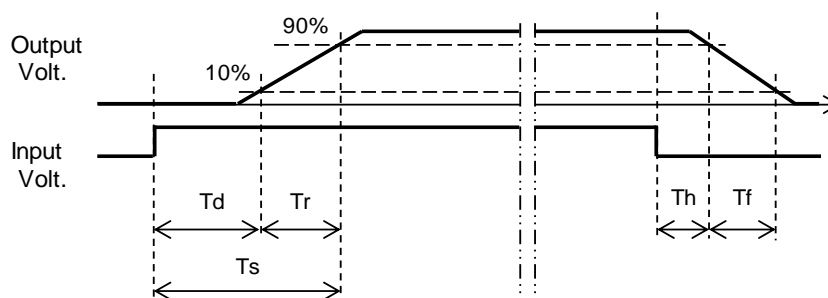
Model	MHFS34812	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+12V0.25A		

1.Graph



2.Values

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	0.8	0.6	1.4	0.3	5.2
100 %	0.8	0.7	1.5	0.3	1.8





Model		MHFS34812	Temperature 25°C Testing Circuitry Figure A																																																																																				
Item		Overcurrent Protection																																																																																					
Object		+12V0.25A																																																																																					
1.Graph		<div><div><div></div>Input Volt. 18V</div><div><div></div>Input Volt. 24V</div><div><div></div>Input Volt. 36V</div><div><div></div>Input Volt. 48V</div><div><div></div>Input Volt. 76V</div></div> <div><p>Note: Slanted line shows the range of the rated load current.</p></div>	2.Values																																																																																				
			<table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="5">Load Current [A]</th></tr><tr><th>Input Volt. 18[V]</th><th>Input Volt. 24[V]</th><th>Input Volt. 36[V]</th><th>Input Volt. 48[V]</th><th>Input Volt. 76[V]</th></tr><tr><td>11.4</td><td>0.350</td><td>0.362</td><td>0.358</td><td>0.351</td><td>0.364</td></tr><tr><td>10.8</td><td>0.360</td><td>0.383</td><td>0.370</td><td>0.362</td><td>0.371</td></tr><tr><td>9.6</td><td>0.400</td><td>0.416</td><td>0.394</td><td>0.389</td><td>0.400</td></tr><tr><td>8.4</td><td>0.442</td><td>0.458</td><td>0.425</td><td>0.418</td><td>0.424</td></tr><tr><td>7.2</td><td>0.489</td><td>0.505</td><td>0.458</td><td>0.445</td><td>0.445</td></tr><tr><td>6.0</td><td>0.541</td><td>0.547</td><td>0.495</td><td>0.478</td><td>0.479</td></tr><tr><td>4.8</td><td>0.579</td><td>0.592</td><td>0.534</td><td>0.514</td><td>0.512</td></tr><tr><td>3.6</td><td>0.577</td><td>0.621</td><td>0.572</td><td>0.547</td><td>0.529</td></tr><tr><td>2.4</td><td>0.695</td><td>0.678</td><td>0.596</td><td>0.581</td><td>0.577</td></tr><tr><td>1.2</td><td>0.784</td><td>0.759</td><td>0.659</td><td>0.620</td><td>0.598</td></tr><tr><td>0.0</td><td>0.943</td><td>0.747</td><td>0.633</td><td>0.589</td><td>0.561</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr></table>		Output Voltage [V]	Load Current [A]					Input Volt. 18[V]	Input Volt. 24[V]	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]	11.4	0.350	0.362	0.358	0.351	0.364	10.8	0.360	0.383	0.370	0.362	0.371	9.6	0.400	0.416	0.394	0.389	0.400	8.4	0.442	0.458	0.425	0.418	0.424	7.2	0.489	0.505	0.458	0.445	0.445	6.0	0.541	0.547	0.495	0.478	0.479	4.8	0.579	0.592	0.534	0.514	0.512	3.6	0.577	0.621	0.572	0.547	0.529	2.4	0.695	0.678	0.596	0.581	0.577	1.2	0.784	0.759	0.659	0.620	0.598	0.0	0.943	0.747	0.633	0.589	0.561	--	-	-	-	-	-
Output Voltage [V]	Load Current [A]																																																																																						
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		Testing Circuitry Figure A
Model	MHFS34812	
Item	Ambient Temperature Drift	
Object	+12V0.25A	

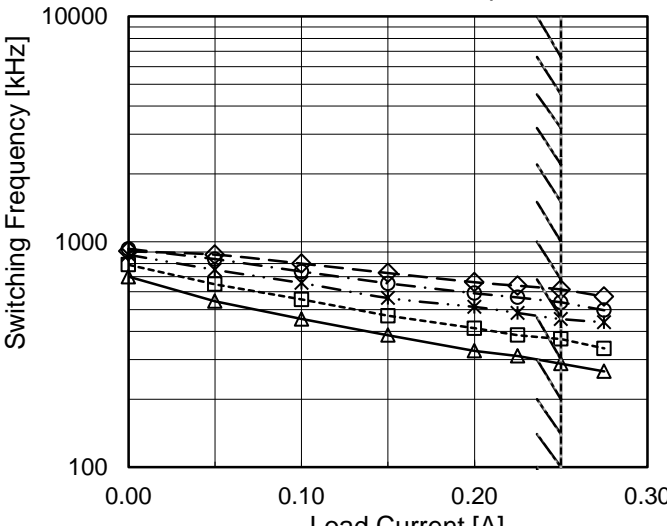
1.Values

Ambient Temperature[°C]	Output Voltage [V]				
	Input Volt. 18V	Input Volt. 24V	Input Volt. 36V	Input Volt. 48V	Input Volt. 76V
-40	11.914	11.916	11.917	11.919	11.920
25	12.013	12.014	12.014	12.015	12.016
75	12.046	12.047	12.047	12.047	12.048

Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A
Object	+12V0.25A	

1.Values

Ambient Temperature[°C]	Input Voltage [V]	
	Load 50%	Load 100%
-40	14.5	14.6
25	14.3	14.3
75	13.8	13.9

Model		MHFS34812		Temperature 25°C																																																																														
Item		Switching frequency (by Load Current)		Testing Circuitry Figure A																																																																														
Object		+12V0.25A																																																																																
1.Graph		<div><div><div>—△—</div><div>Input Volt.</div><div>18V</div></div><div><div>---□---</div><div>Input Volt.</div><div>24V</div></div><div><div>-·-*·-</div><div>Input Volt.</div><div>36V</div></div><div><div>-·-○-</div><div>Input Volt.</div><div>48V</div></div><div><div>---◇---</div><div>Input Volt.</div><div>76V</div></div></div>  <p>Switching Frequency [kHz]</p> <p>Load Current [A]</p>		2.Values																																																																														
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Load Current [A]	Switching Frequency [kHz]																																																																																	
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When load current is low, MH operates intermittently, so switching frequency would not become constant.																																																																																		

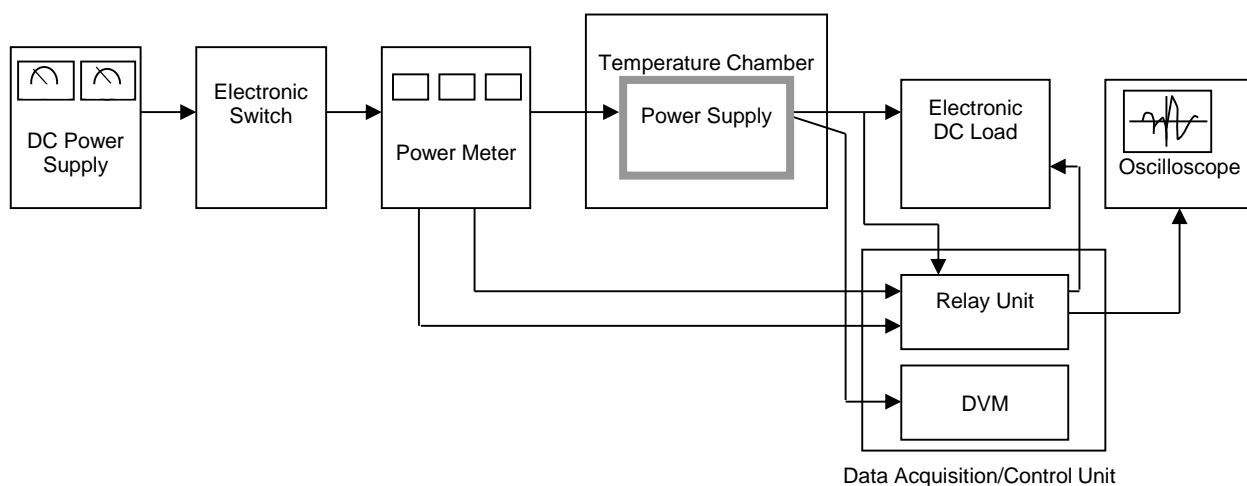


Figure A

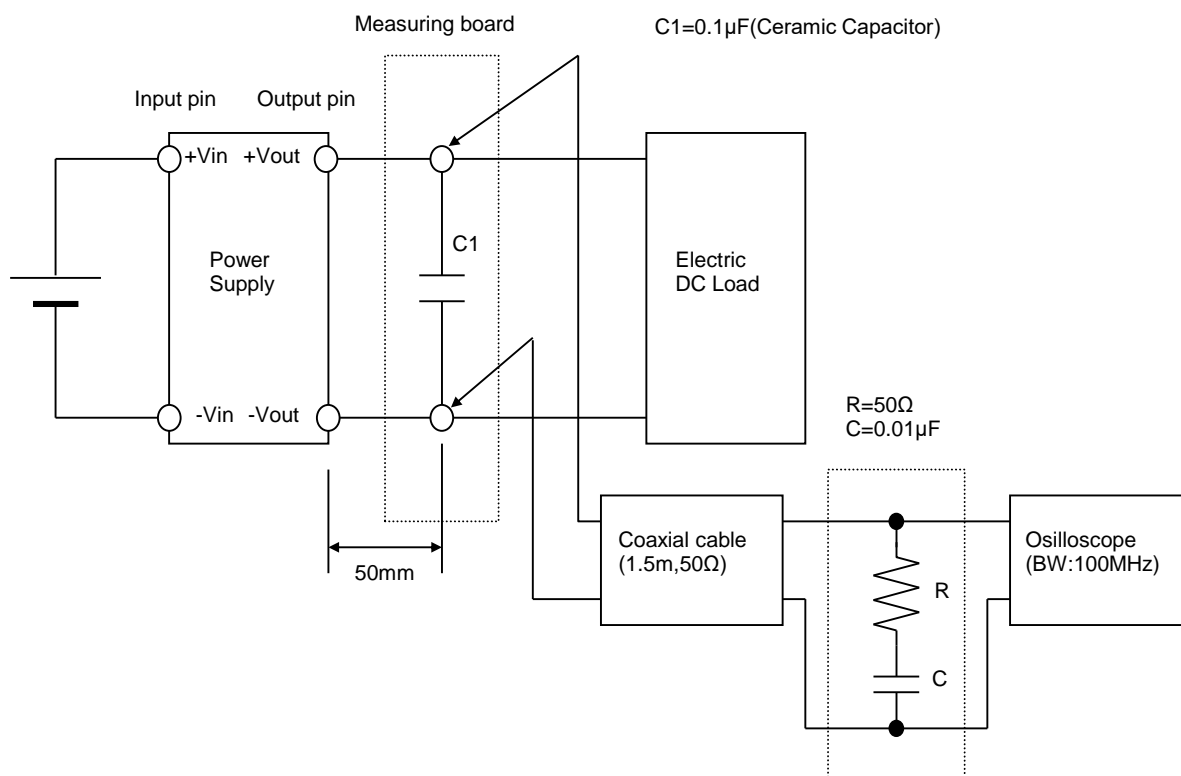


Figure B