

# TEST DATA OF MUS1R50505

Regulated DC Power Supply  
February 4, 2025

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Design Manager

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Design Engineer

**COSEL CO.,LTD.**

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Model		MUS1R50505	Temperature		25°C																																																			
Item		Input Current (by Load Current)	Testing Circuitry		Figure A																																																			
Object		_____																																																						
1.Graph			2.Values																																																					
<div><div><div>—△—</div><div>Input Volt.</div><div>4.5V</div></div><div><div>---□---</div><div>Input Volt.</div><div>5V</div></div><div><div>-·-○-·-</div><div>Input Volt.</div><div>9V</div></div></div> <p>Input Current [A]</p> <p>Load Current [A]</p> <p>Note: Slanted line shows the range of the rated load current.</p>			<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Input Current [A]</th></tr><tr><th>Input Volt. 4.5[V]</th><th>Input Volt. 5[V]</th><th>Input Volt. 9[V]</th></tr><tr><td>0.00</td><td>0.011</td><td>0.010</td><td>0.009</td></tr><tr><td>0.06</td><td>0.085</td><td>0.076</td><td>0.048</td></tr><tr><td>0.12</td><td>0.163</td><td>0.147</td><td>0.087</td></tr><tr><td>0.18</td><td>0.244</td><td>0.220</td><td>0.127</td></tr><tr><td>0.24</td><td>0.327</td><td>0.293</td><td>0.167</td></tr><tr><td>0.30</td><td>0.411</td><td>0.368</td><td>0.207</td></tr><tr><td>0.33</td><td>0.455</td><td>0.407</td><td>0.226</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table>			Load Current [A]	Input Current [A]			Input Volt. 4.5[V]	Input Volt. 5[V]	Input Volt. 9[V]	0.00	0.011	0.010	0.009	0.06	0.085	0.076	0.048	0.12	0.163	0.147	0.087	0.18	0.244	0.220	0.127	0.24	0.327	0.293	0.167	0.30	0.411	0.368	0.207	0.33	0.455	0.407	0.226	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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Item		Efficiency (by Load Current)	Testing Circuitry Figure A																																																				
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1.Graph		<div><div>—△—</div>Input Volt. 4.5V</div> <div><div>---□---</div>Input Volt. 5V</div> <div><div>---○---</div>Input Volt. 9V</div> <p>Efficiency [%]</p> <p>Load Current [A]</p>	2.Values																																																				
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		Note: Slanted line shows the range of the rated load current.																																																					

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Model

MUS1R50505

Item

Line Regulation

Object

+5V0.3A

1.Graph

Load 50%

Load 100%

Output Voltage [V]

Input Voltage [V]

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

2.Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
4.0	5.109	5.110
4.5	5.109	5.110
5.0	5.109	5.110
6.0	5.109	5.110
7.0	5.109	5.110
8.0	5.109	5.110
9.0	5.109	5.110
10.0	5.109	5.110
--	-	-

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Model	MUS1R50505																																																					
Item	Load Regulation	Temperature	25°C																																																			
Object	+5V0.3A	Testing Circuitry	Figure A																																																			
1.Graph		2.Values																																																				
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Item	Ripple-Noise	Temperature	25°C																																																			
Object	+5V0.3A	Testing Circuitry	Figure B																																																			
1.Graph																																																						
<div><div><div>Input Voltage</div><div>5V</div></div><div><div>Load</div><div>100%</div></div></div> <div>10[mV/div]</div> <div>2[μs/div]</div>																																																						

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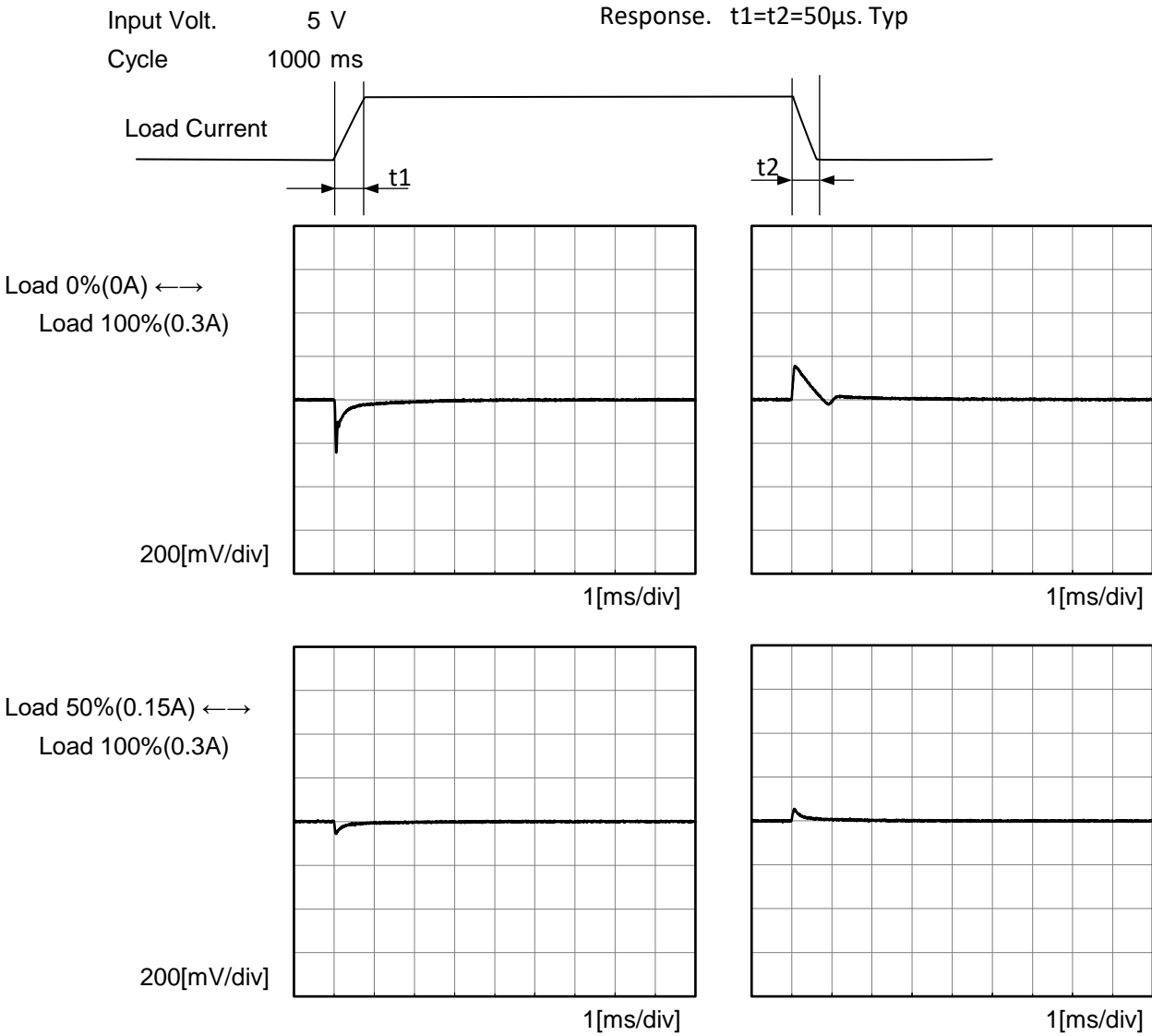
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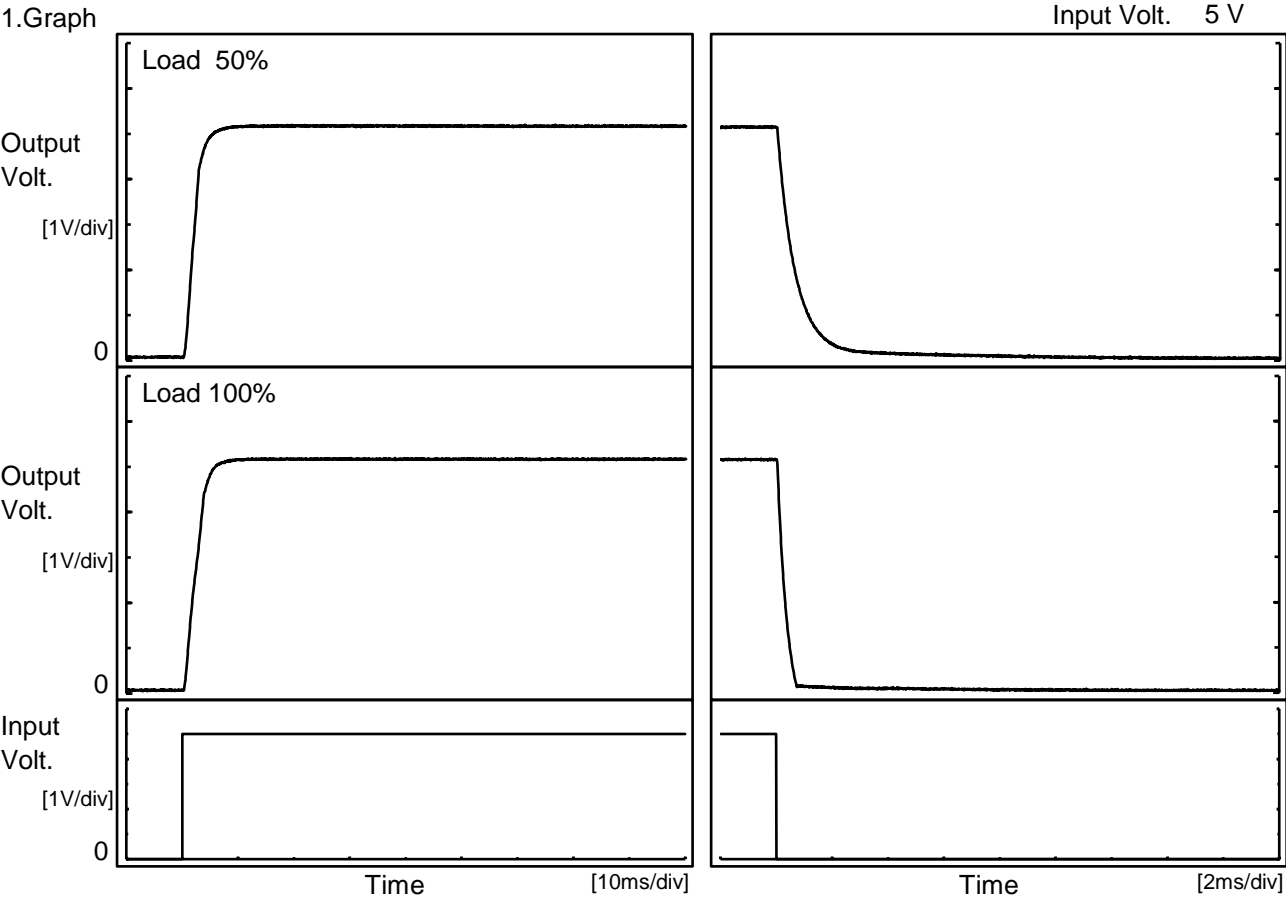
Model		MUS1R50505	Temperature 25°C Testing Circuitry Figure A
Item		Dynamic Load Response	
Object		+5V0.3A	





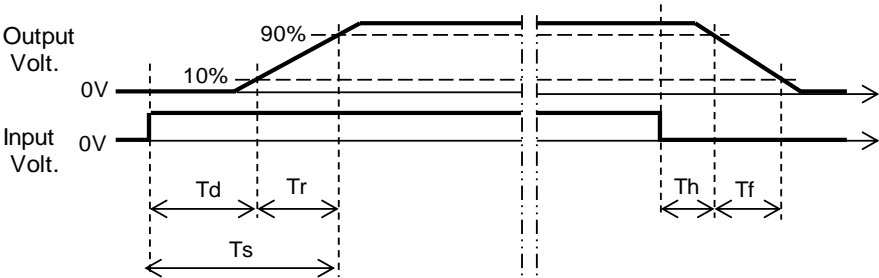
Model		MUS1R50505	Temperature 25°C Testing Circuitry Figure A
Item		Rise and Fall Time	
Object		+5V0.3A	

1.Graph



2.Values

		[ms]				
Load	Time	Td	Tr	Ts	Th	Tf
50 %		0.8	2.9	3.7	0.1	1.5
100 %		0.8	3.5	4.3	0.1	0.5





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Model	MUS1R50505																																																									
Item	Overcurrent Protection	Temperature	25°C																																																							
Object	+5V0.3A	Testing Circuitry	Figure A																																																							
1.Graph		2.Values																																																								
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		Testing Circuitry    Figure A																			
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Item	Ambient Temperature Drift																				
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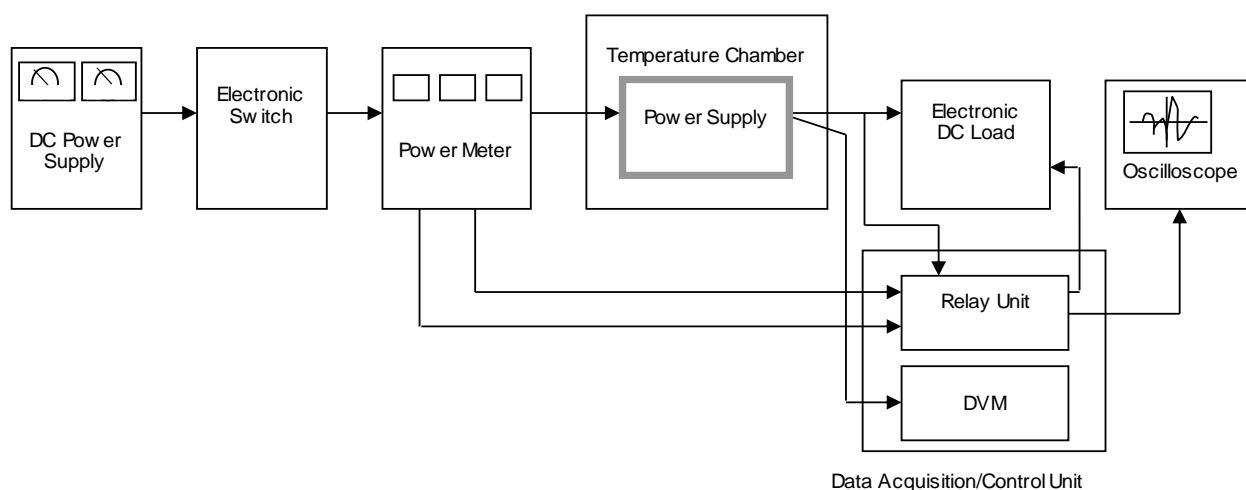


Figure A

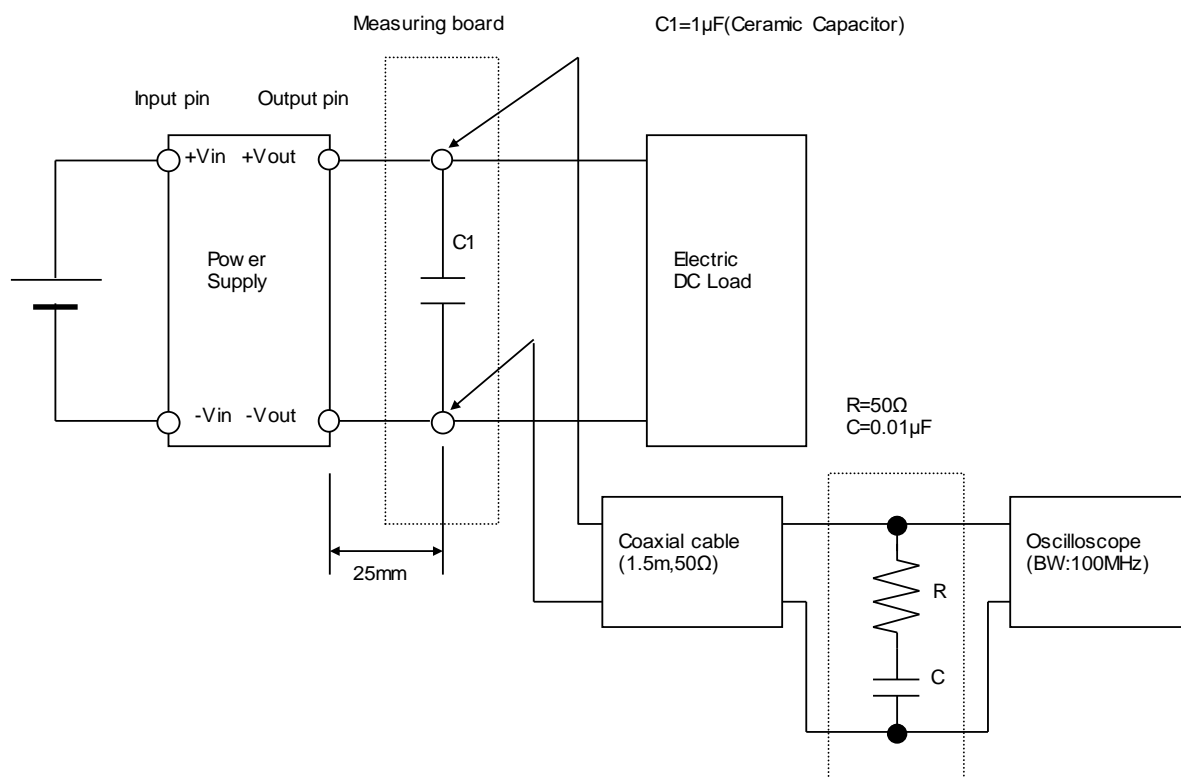


Figure B