

# TEST DATA OF MUS1R50512

Regulated DC Power Supply  
February 4, 2025

Approved by : Kenichi Tsukada  
Design Manager

Prepared by : Soichiro Kawaguchi  
Design Engineer

**COSEL CO.,LTD.**

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Model		MUS1R50512	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> <div><p>Input Current [A]</p><p>Load Current [A]</p><p>Note: Slanted line shows the range of the rated load current.</p></div>			<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>0.000</td><td>0.018</td><td>0.017</td><td>0.015</td></tr><tr><td>0.026</td><td>0.090</td><td>0.082</td><td>0.051</td></tr><tr><td>0.052</td><td>0.167</td><td>0.150</td><td>0.089</td></tr><tr><td>0.078</td><td>0.247</td><td>0.220</td><td>0.128</td></tr><tr><td>0.104</td><td>0.330</td><td>0.296</td><td>0.169</td></tr><tr><td>0.130</td><td>0.414</td><td>0.371</td><td>0.207</td></tr><tr><td>0.143</td><td>0.457</td><td>0.409</td><td>0.229</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]	0.000	0.018	0.017	0.015	0.026	0.090	0.082	0.051	0.052	0.167	0.150	0.089	0.078	0.247	0.220	0.128	0.104	0.330	0.296	0.169	0.130	0.414	0.371	0.207	0.143	0.457	0.409	0.229	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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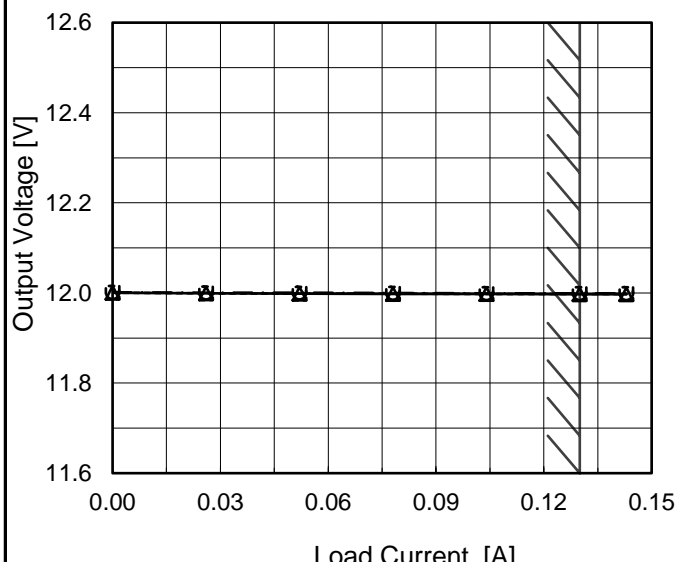
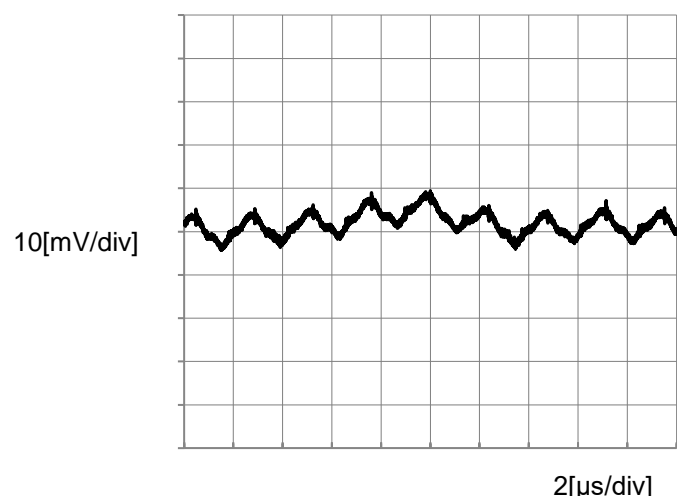


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Item	Line Regulation	Temperature	25°C																																
Object	+12V0.13A	Testing Circuitry	Figure A																																
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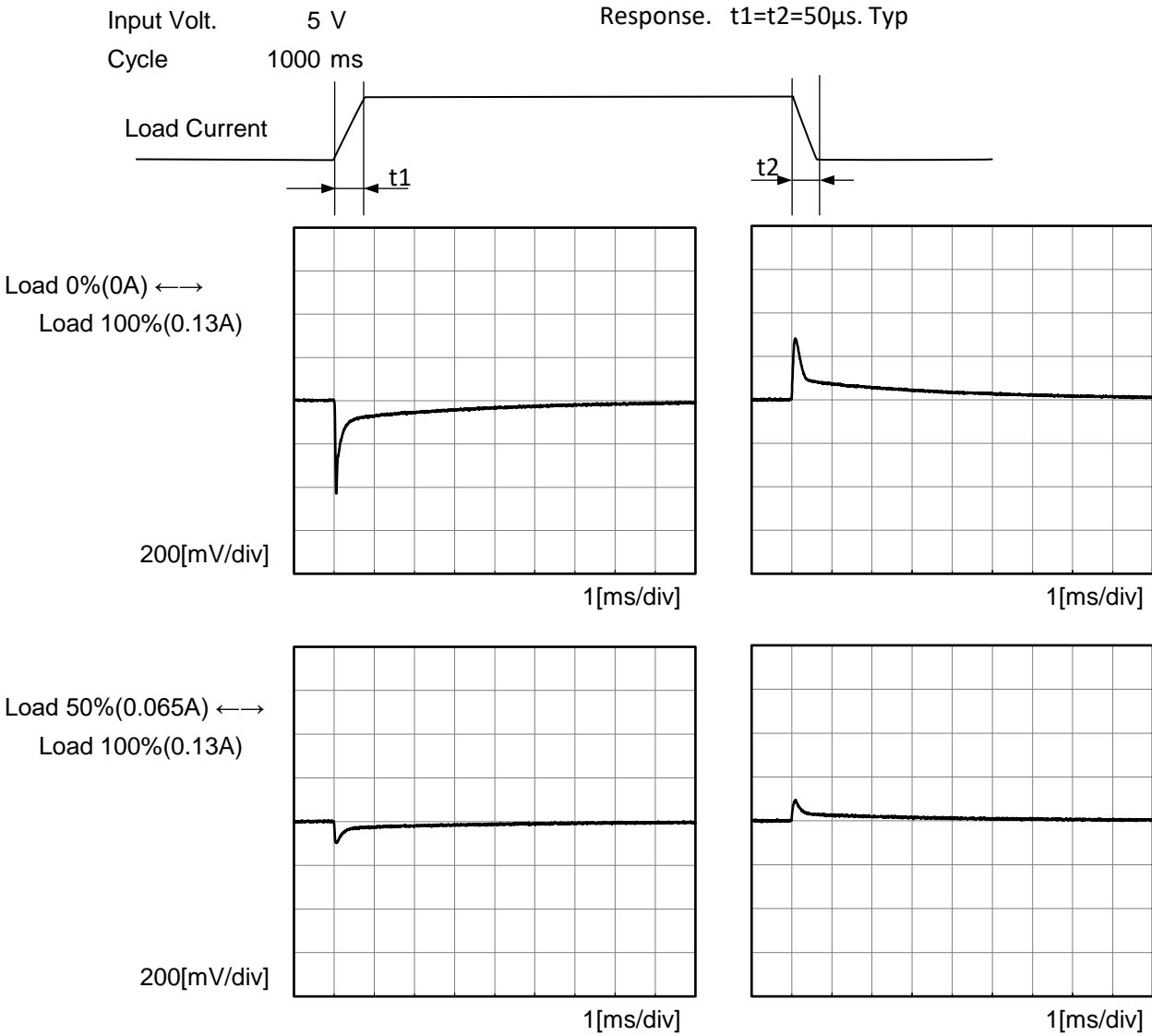
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Item	Ripple-Noise	Temperature	25°C																																																			
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1.Graph <div><div>Input Voltage 5V</div><div>Load 100%</div></div>																																																						

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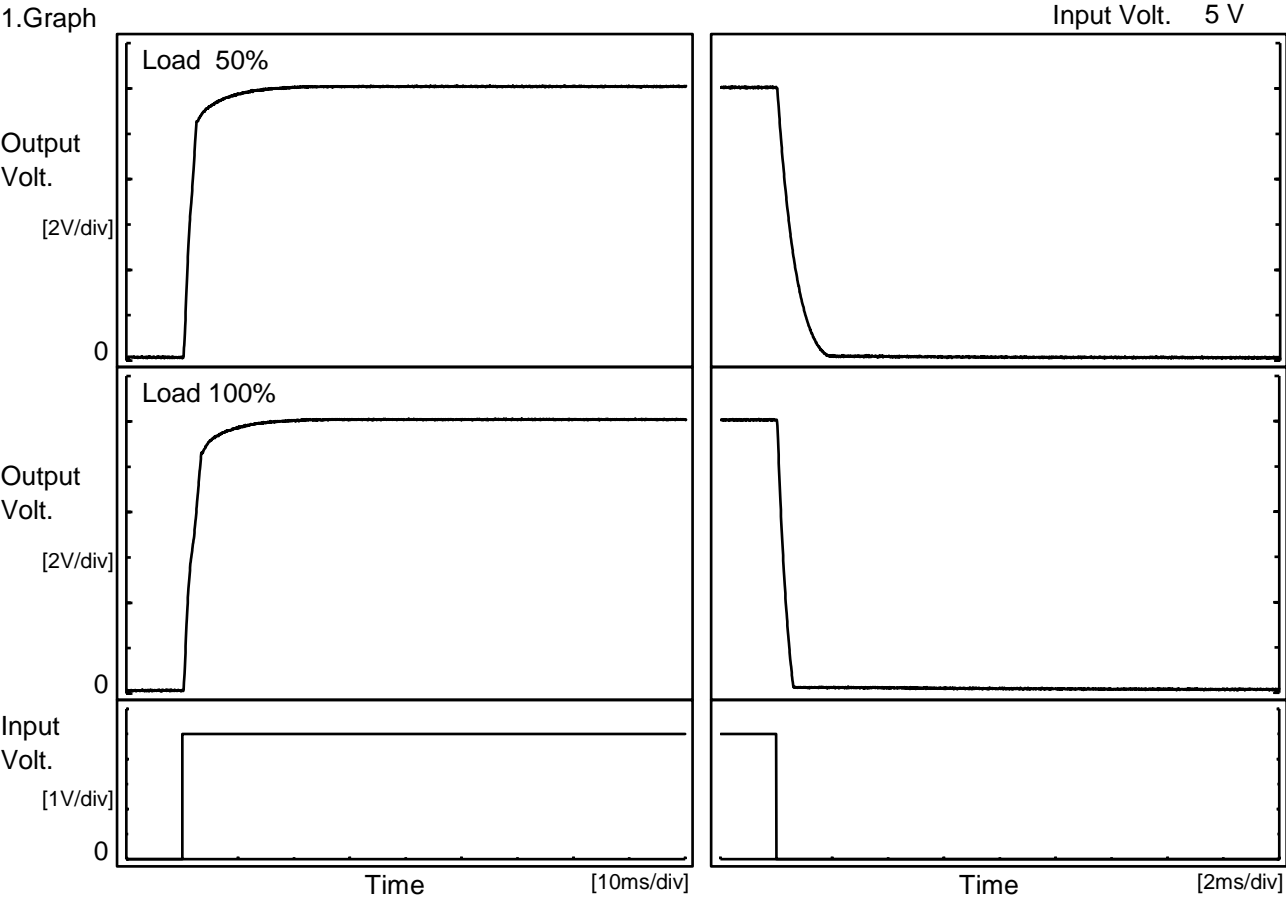
Model	MUS1R50512		
Item	Dynamic Load Response	Temperature	25°C
		Testing Circuitry	Figure A
Object	+12V0.13A		





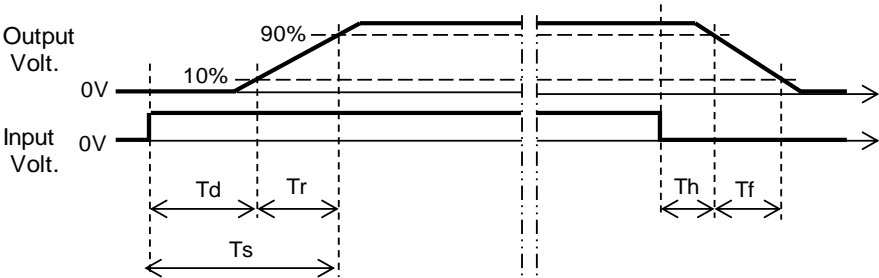
Model		MUS1R50512	Temperature     25°C Testing Circuitry   Figure A
Item		Rise and Fall Time	
Object		+12V0.13A	

1.Graph



2.Values

		[ms]				
Load	Time	Td	Tr	Ts	Th	Tf
50 %		0.5	3.0	3.5	0.1	1.1
100 %		0.5	3.7	4.2	0.1	0.4





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Item	Overcurrent Protection	Temperature	25°C																																																							
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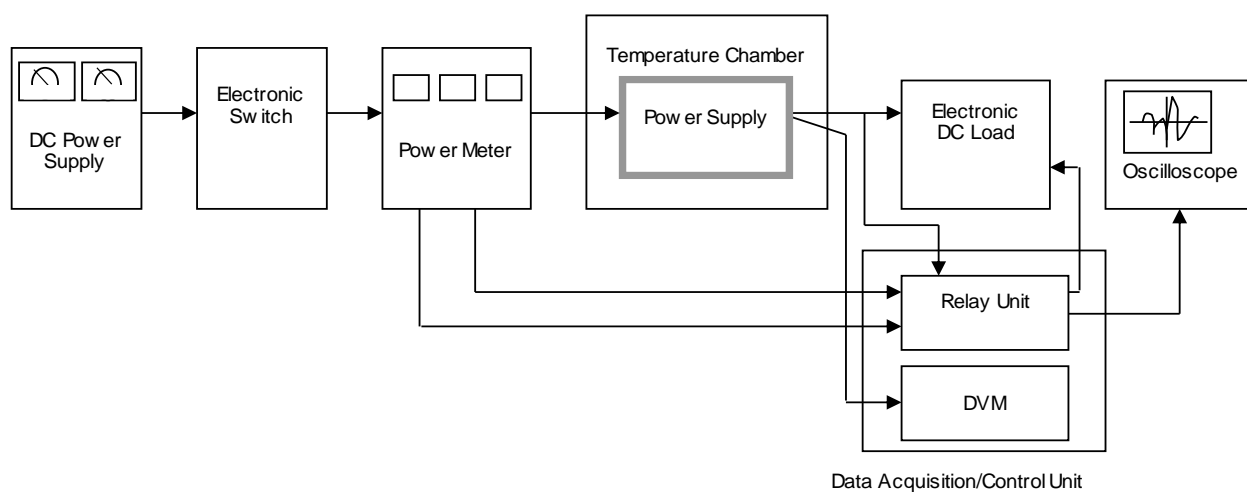


Figure A

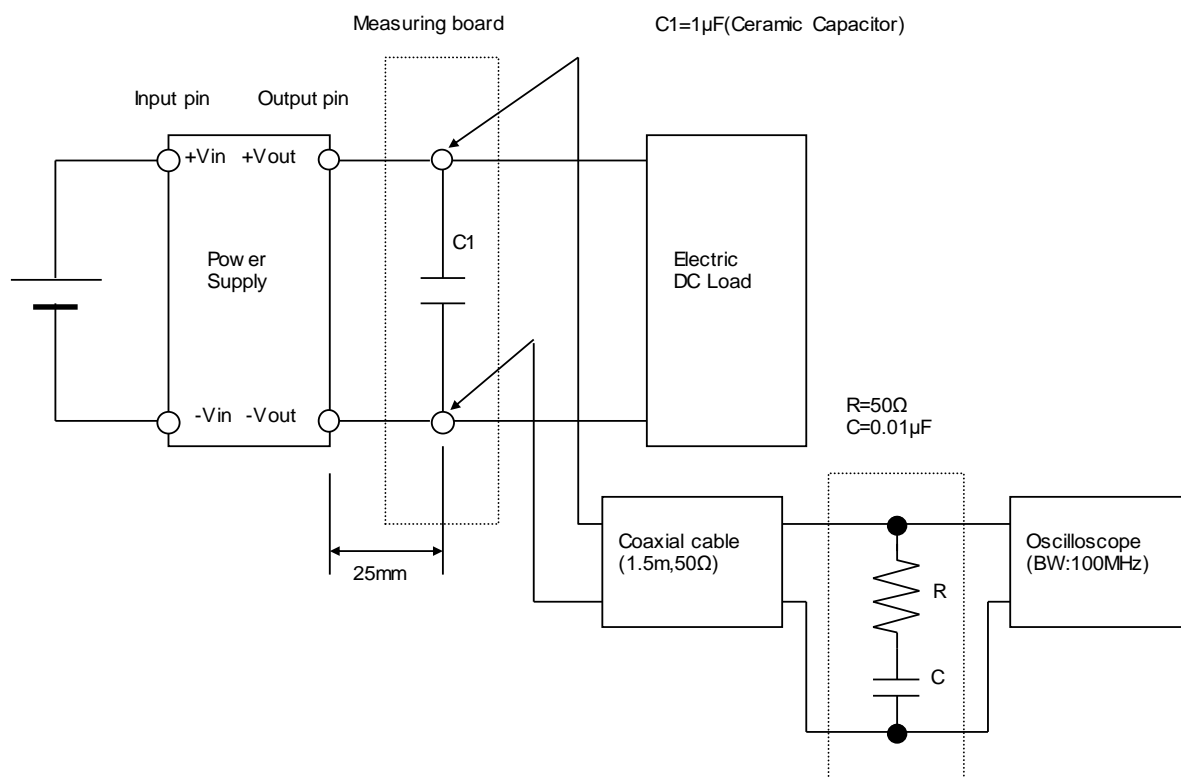


Figure B