

# TEST DATA OF MUS1R5123R3

Regulated DC Power Supply  
February 4, 2025

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Design Manager

Prepared by : Soichiro Kawaguchi  
Design Engineer

**COSEL CO.,LTD.**

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(Final Page 9)

Model		MUS1R5123R3	Temperature		25°C																																																
Item		Input Current (by Load Current)	Testing Circuitry		Figure A																																																
Object		_____																																																			
1.Graph			2.Values																																																		
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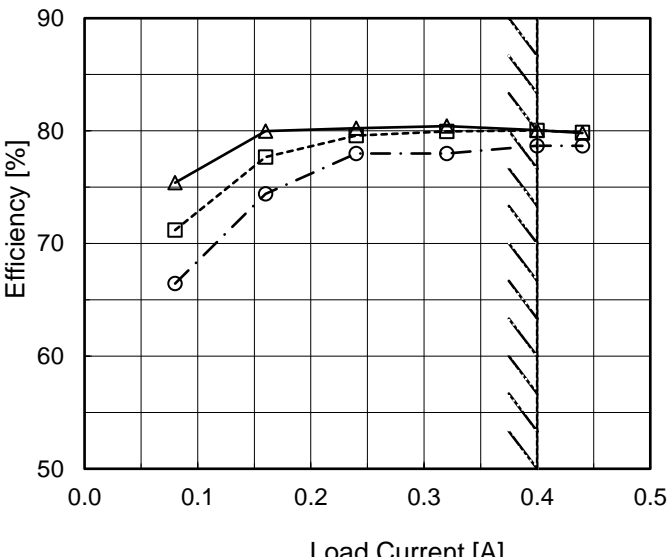
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Model		MUS1R5123R3		Temperature 25°C																																																				
Item		Efficiency (by Load Current)		Testing Circuitry Figure A																																																				
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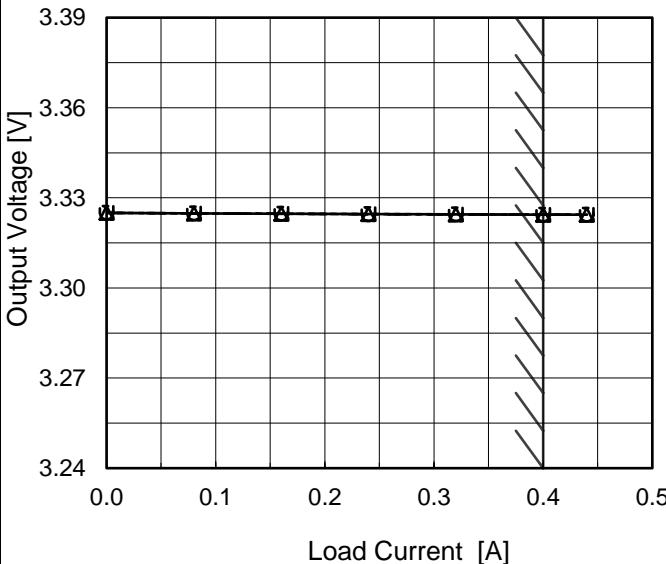
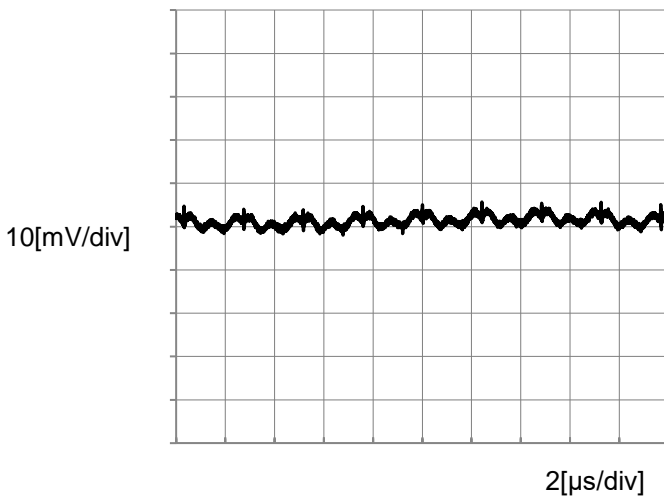
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Model	MUS1R5123R3																																		
Item	Line Regulation	Temperature	25°C																																
Object	+3.3V0.4A	Testing Circuitry	Figure A																																
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<div><div><div><div></div><div>Load 50%</div></div><div><div></div><div>Load 100%</div></div></div><div><div><div>Output Voltage [V]</div><div>3.39</div><div>3.36</div><div>3.33</div><div>3.30</div><div>3.27</div><div>3.24</div></div><div><div>5</div><div>10</div><div>15</div><div>20</div><div>25</div></div><div><div></div><div>Input Voltage [V]</div></div></div></div>		<table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Output Voltage [V]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>8</td><td>3.325</td><td>3.325</td></tr><tr><td>9</td><td>3.325</td><td>3.325</td></tr><tr><td>10</td><td>3.325</td><td>3.325</td></tr><tr><td>12</td><td>3.325</td><td>3.325</td></tr><tr><td>15</td><td>3.325</td><td>3.325</td></tr><tr><td>18</td><td>3.325</td><td>3.325</td></tr><tr><td>20</td><td>3.325</td><td>3.325</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	8	3.325	3.325	9	3.325	3.325	10	3.325	3.325	12	3.325	3.325	15	3.325	3.325	18	3.325	3.325	20	3.325	3.325	--	-	-	--	-	-
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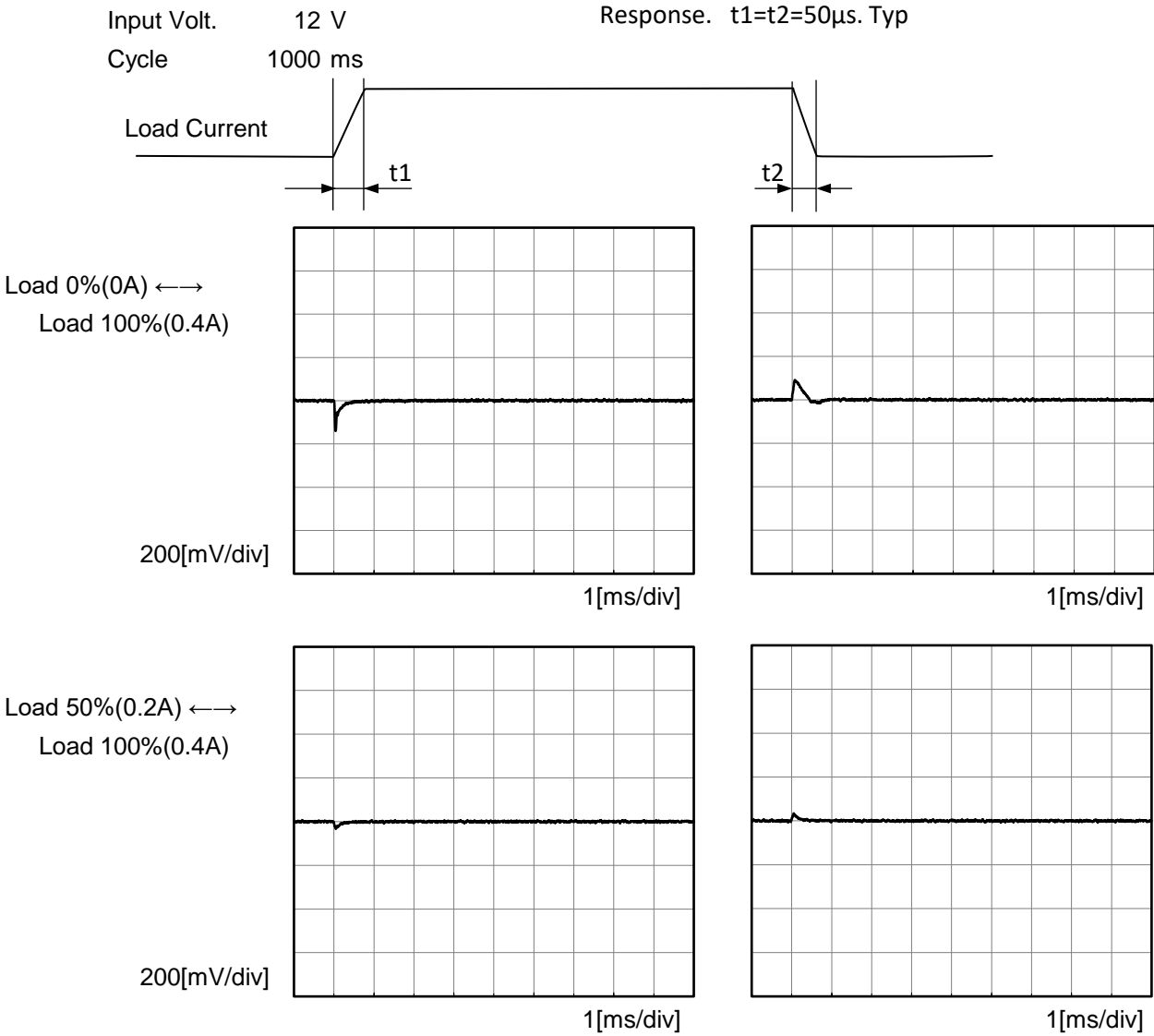
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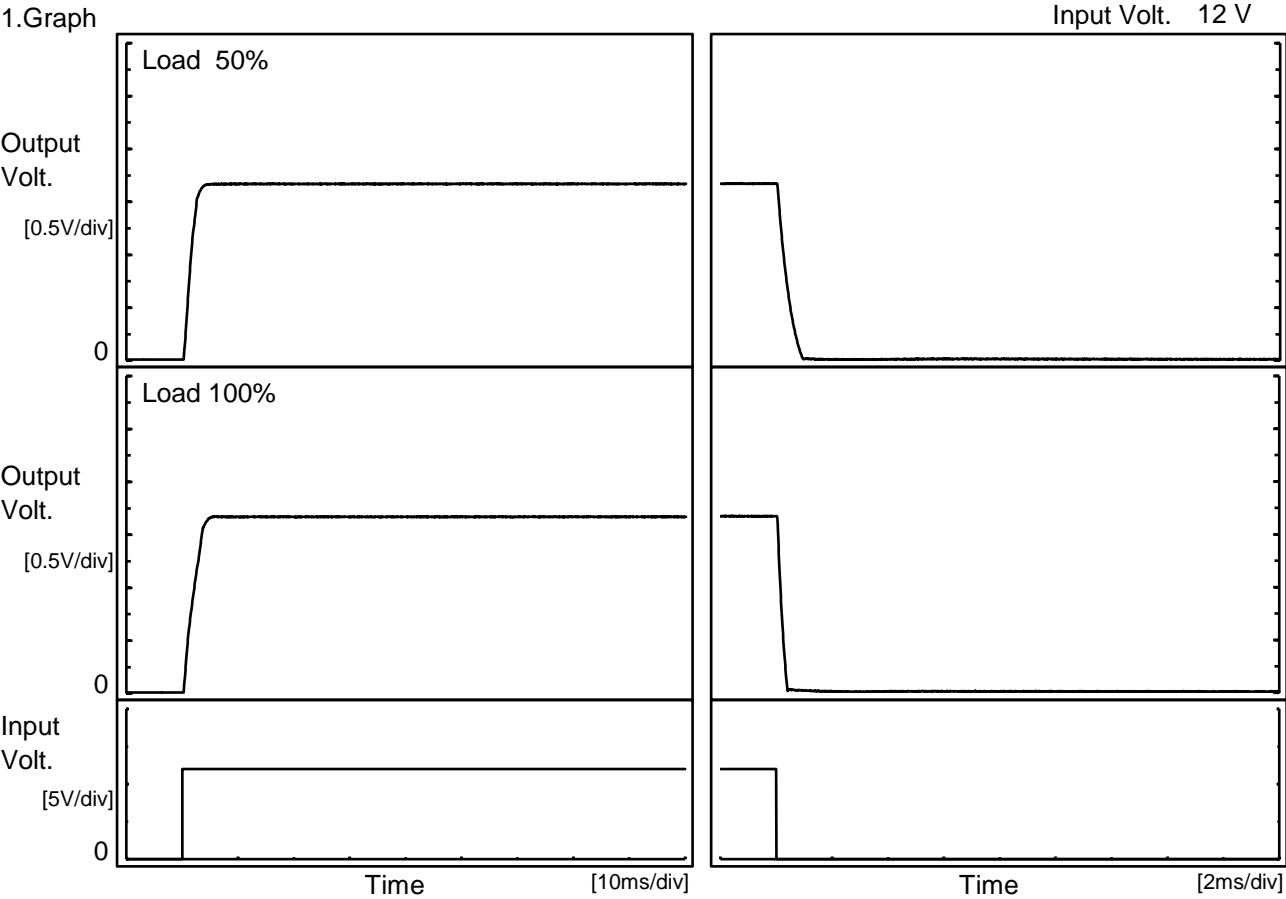
Model		MUS1R5123R3	Temperature 25°C Testing Circuitry Figure A
Item		Dynamic Load Response	
Object		+3.3V0.4A	





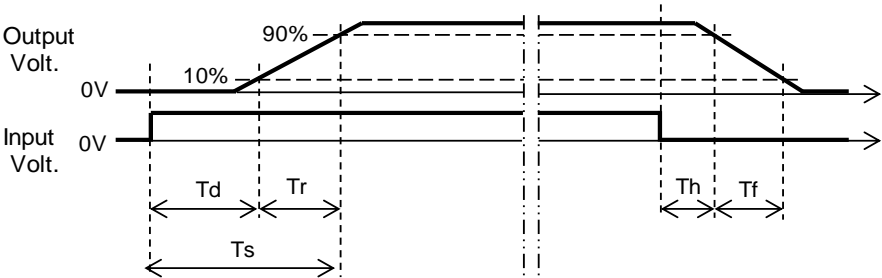
Model		MUS1R5123R3	Temperature     25°C Testing Circuitry   Figure A
Item		Rise and Fall Time	
Object		+3.3V0.4A	

1.Graph



2.Values

		[ms]				
Load	Time	Td	Tr	Ts	Th	Tf
50 %		0.5	2.1	2.6	0.1	0.7
100 %		0.5	3.0	3.5	0.1	0.3





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Model	MUS1R5123R3																																																									
Item	Overcurrent Protection	Temperature	25°C																																																							
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		Testing Circuitry    Figure A																			
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Item	Ambient Temperature Drift																				
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1.Values <div>Load    100%</div> <table><tr><th rowspan="2">Ambient Temperature[°C]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt.    9V</th><th>Input Volt.    12V</th><th>Input Volt.    18V</th></tr><tr><td>-40</td><td>3.309</td><td>3.309</td><td>3.309</td></tr><tr><td>25</td><td>3.324</td><td>3.324</td><td>3.324</td></tr><tr><td>85</td><td>3.323</td><td>3.323</td><td>3.323</td></tr></table>			Ambient Temperature[°C]	Output Voltage [V]			Input Volt.    9V	Input Volt.    12V	Input Volt.    18V	-40	3.309	3.309	3.309	25	3.324	3.324	3.324	85	3.323	3.323	3.323
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Object	+3.3V0.4A																				
1.Values <table><tr><th rowspan="2">Ambient Temperature[°C]</th><th colspan="2">Input Voltage        [V]</th></tr><tr><th>Load    50%</th><th>Load    100%</th></tr><tr><td>-40</td><td>7.3</td><td>7.2</td></tr><tr><td>25</td><td>7.4</td><td>7.2</td></tr><tr><td>85</td><td>7.2</td><td>7.3</td></tr></table>			Ambient Temperature[°C]	Input Voltage        [V]		Load    50%	Load    100%	-40	7.3	7.2	25	7.4	7.2	85	7.2	7.3					
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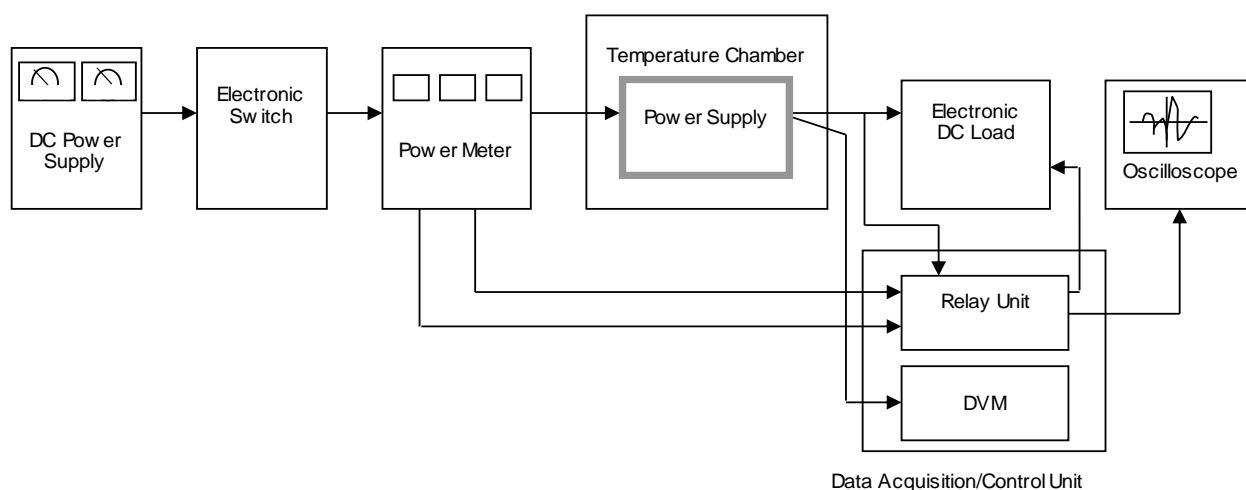


Figure A

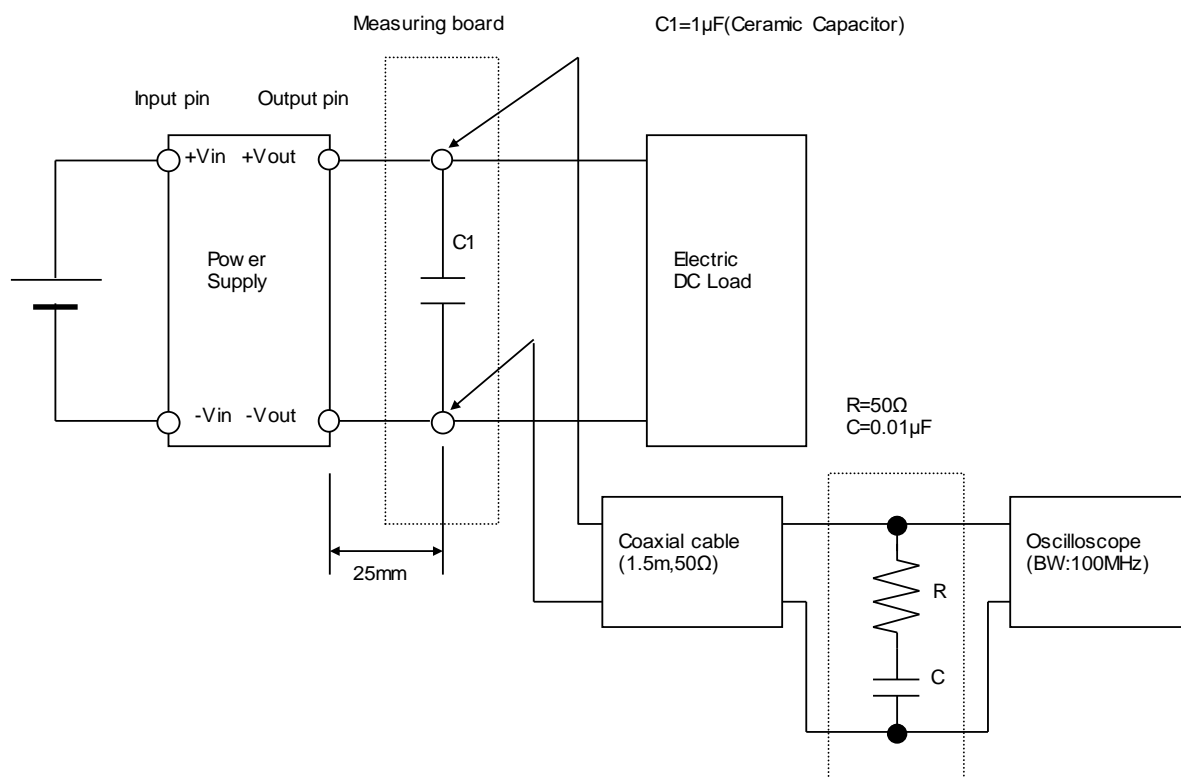


Figure B