

# TEST DATA OF MUS6123R3

Regulated DC Power Supply  
May.7. 2025

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Design Manager

Prepared by : Yoshihiko Saeki  
Design Engineer

**COSEL CO.,LTD.**

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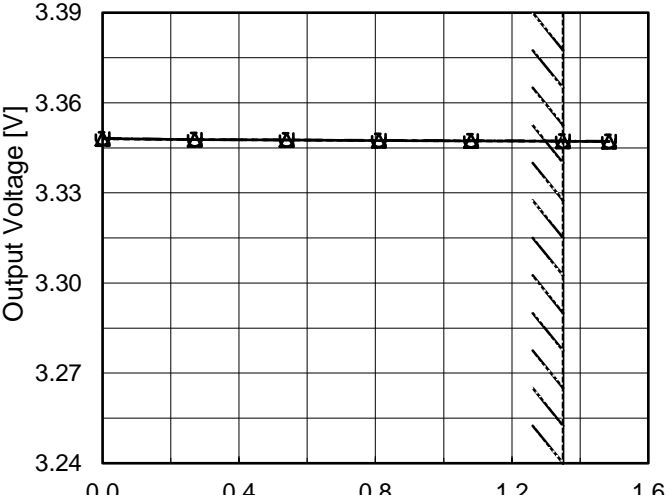
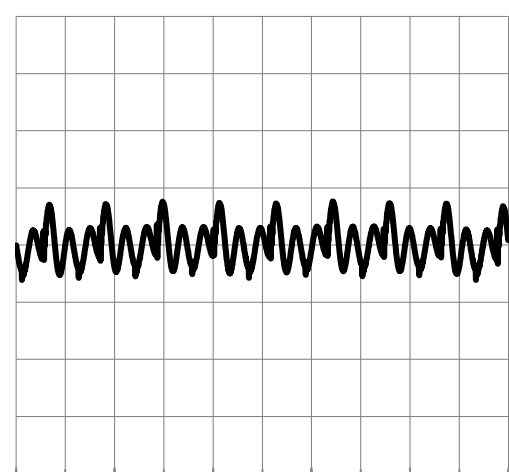
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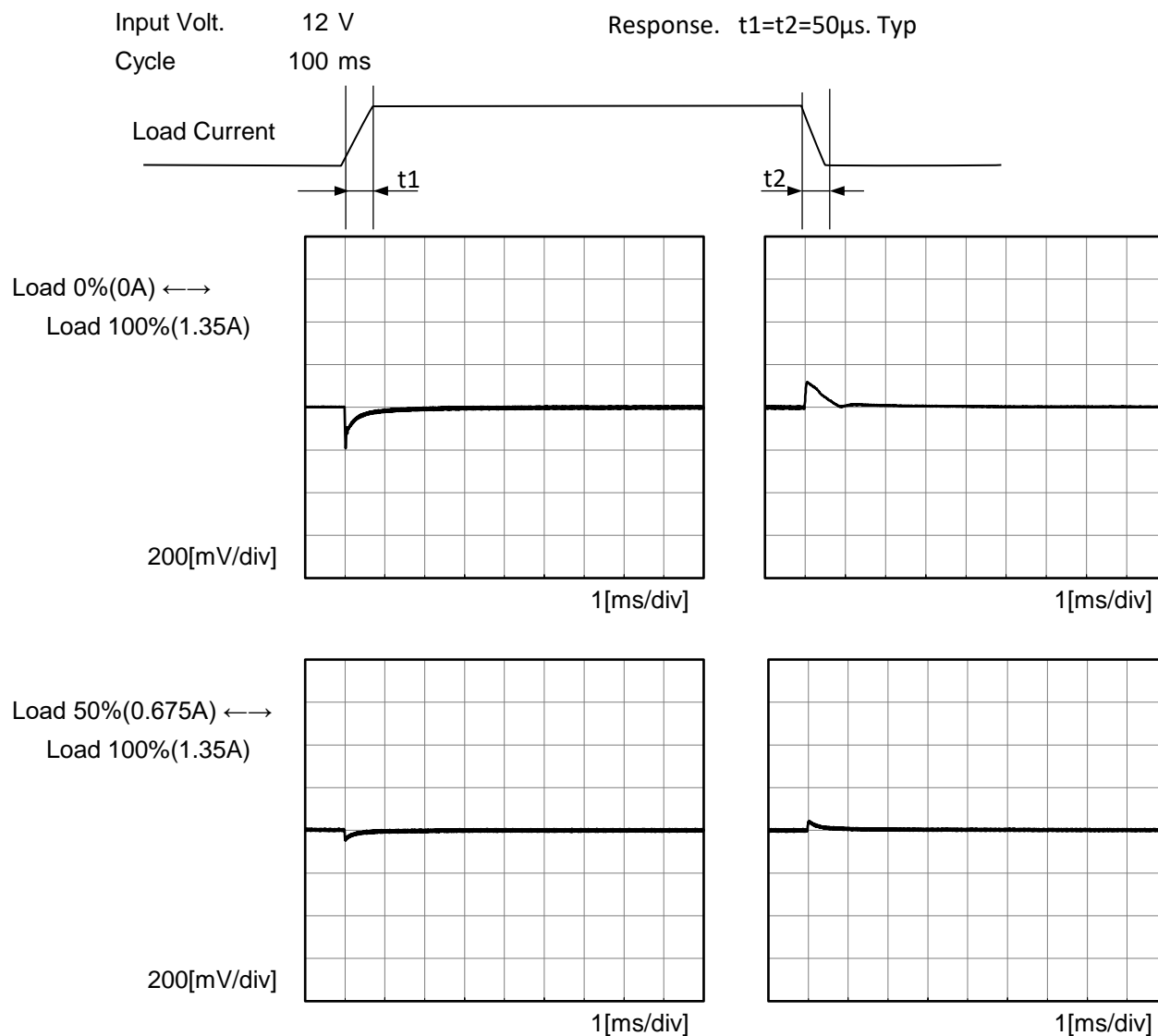




<div>COSEL</div>																																			
Model	MUS6123R3																																		
Item	Line Regulation	Temperature	25°C																																
Object	+3.3V1.35A	Testing Circuitry	Figure A																																
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<div><div><div><div><div>---</div><div>□</div><div>---</div></div><div>Load 50%</div></div><div><div>---</div><div>△</div><div>---</div></div><div>Load 100%</div></div></div> <div><div><div>Output Voltage [V]</div><div><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>Input Voltage [V]</div><div><div><div>8</div><div>9</div><div>10</div><div>12</div><div>15</div><div>18</div><div>20</div></div><div><div>3.348</div><div>3.348</div><div>3.348</div><div>3.348</div><div>3.348</div><div>3.348</div><div>3.348</div></div></div></div></div></div> <div>Note: Slanted line shows the range of the rated input voltage.</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>3.348</td><td>3.347</td></tr><tr><td>9</td><td>3.348</td><td>3.347</td></tr><tr><td>10</td><td>3.348</td><td>3.347</td></tr><tr><td>12</td><td>3.348</td><td>3.347</td></tr><tr><td>15</td><td>3.348</td><td>3.347</td></tr><tr><td>18</td><td>3.348</td><td>3.347</td></tr><tr><td>20</td><td>3.348</td><td>3.347</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	3.348	3.347	9	3.348	3.347	10	3.348	3.347	12	3.348	3.347	15	3.348	3.347	18	3.348	3.347	20	3.348	3.347	--	-	-	--	-	-
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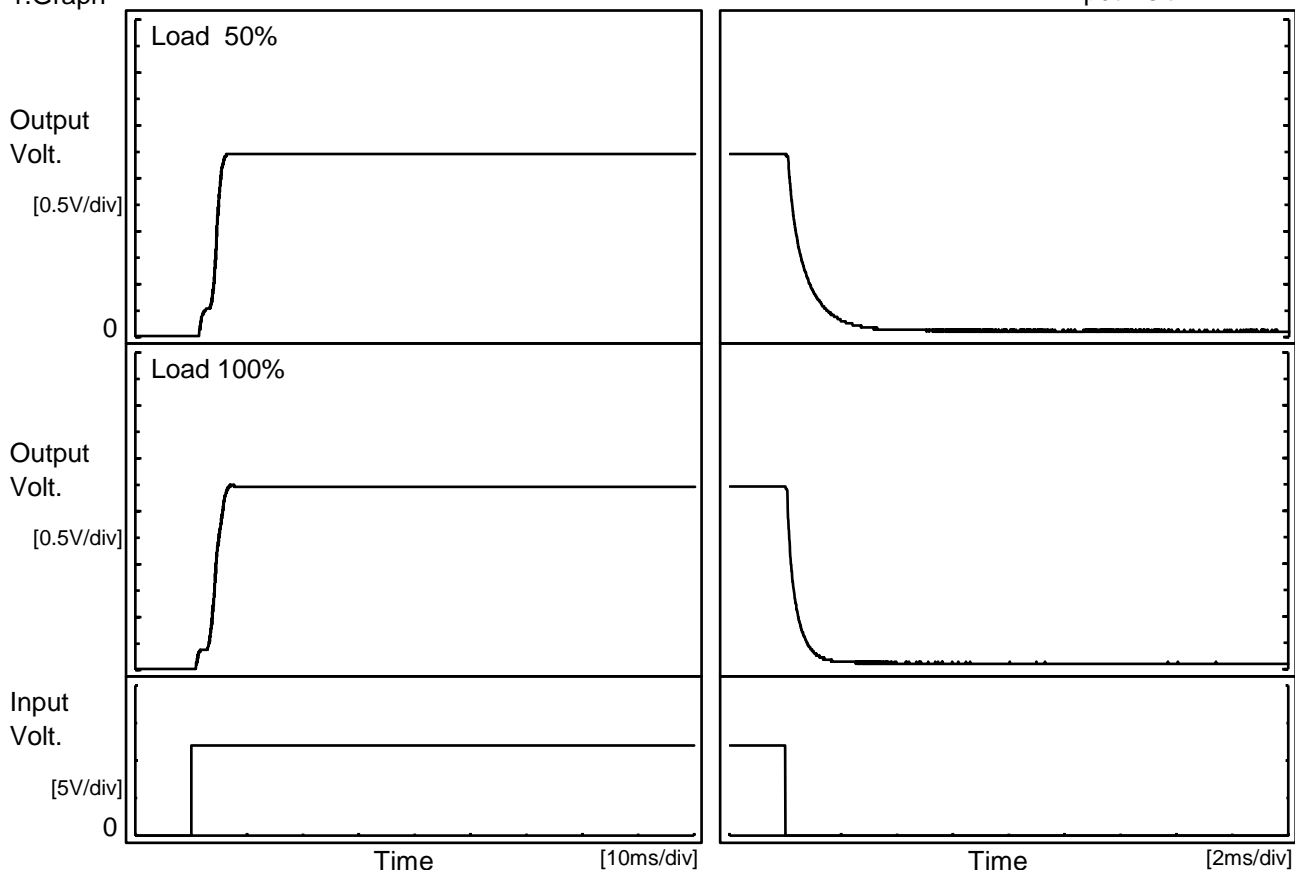
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Model	MUS6123R3	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Response	
Object	+3.3V1.35A	



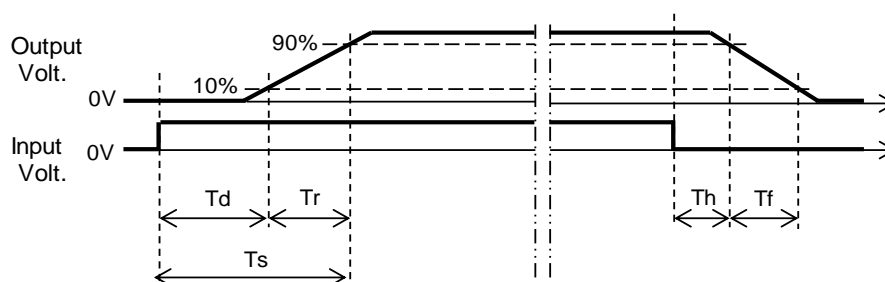
Model	MUS6123R3	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+3.3V1.35A		

### 1.Graph



### 2.Values

		[ms]				
Load	Time	Td	Tr	Ts	Th	Tf
50 %		1.8	3.5	5.3	0.2	1.7
100 %		1.6	4.0	5.6	0.1	0.9





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1.Graph <div><div><div></div><div>Input Volt.</div><div>9V</div></div><div><div></div><div>Input Volt.</div><div>12V</div></div><div><div></div><div>Input Volt.</div><div>18V</div></div></div> <div>Note: Slanted line shows the range of the rated load current.</div>		2.Values <table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="3">Load Current [A]</th></tr><tr><th>Input Volt. 9[V]</th><th>Input Volt. 12[V]</th><th>Input Volt. 18[V]</th></tr><tr><td>3.14</td><td>1.85</td><td>2.01</td><td>2.08</td></tr><tr><td>2.97</td><td>1.95</td><td>2.09</td><td>2.15</td></tr><tr><td>2.64</td><td>2.11</td><td>2.25</td><td>2.32</td></tr><tr><td>2.31</td><td>2.29</td><td>2.43</td><td>2.51</td></tr><tr><td>1.98</td><td>2.48</td><td>2.63</td><td>2.71</td></tr><tr><td>1.65</td><td>2.70</td><td>2.85</td><td>2.89</td></tr><tr><td>1.32</td><td>2.79</td><td>2.89</td><td>2.87</td></tr><tr><td>0.99</td><td>2.86</td><td>2.91</td><td>2.86</td></tr><tr><td>0.66</td><td>2.95</td><td>2.98</td><td>2.87</td></tr><tr><td>0.33</td><td>3.10</td><td>3.09</td><td>2.94</td></tr><tr><td>0.00</td><td>3.40</td><td>3.30</td><td>3.13</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table>		Output Voltage [V]	Load Current [A]			Input Volt. 9[V]	Input Volt. 12[V]	Input Volt. 18[V]	3.14	1.85	2.01	2.08	2.97	1.95	2.09	2.15	2.64	2.11	2.25	2.32	2.31	2.29	2.43	2.51	1.98	2.48	2.63	2.71	1.65	2.70	2.85	2.89	1.32	2.79	2.89	2.87	0.99	2.86	2.91	2.86	0.66	2.95	2.98	2.87	0.33	3.10	3.09	2.94	0.00	3.40	3.30	3.13	--	-	-	-
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		Testing Circuitry Figure A
Model	MUS6123R3	
Item	Ambient Temperature Drift	
Object	+3.3V1.35A	

## 1.Values

Load 100%

Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 9V	Input Volt. 12V	Input Volt. 18V
-40	3.329	3.329	3.329
25	3.347	3.347	3.347
85	3.347	3.347	3.347

Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A
Object	+3.3V1.35A	

## 1.Values

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

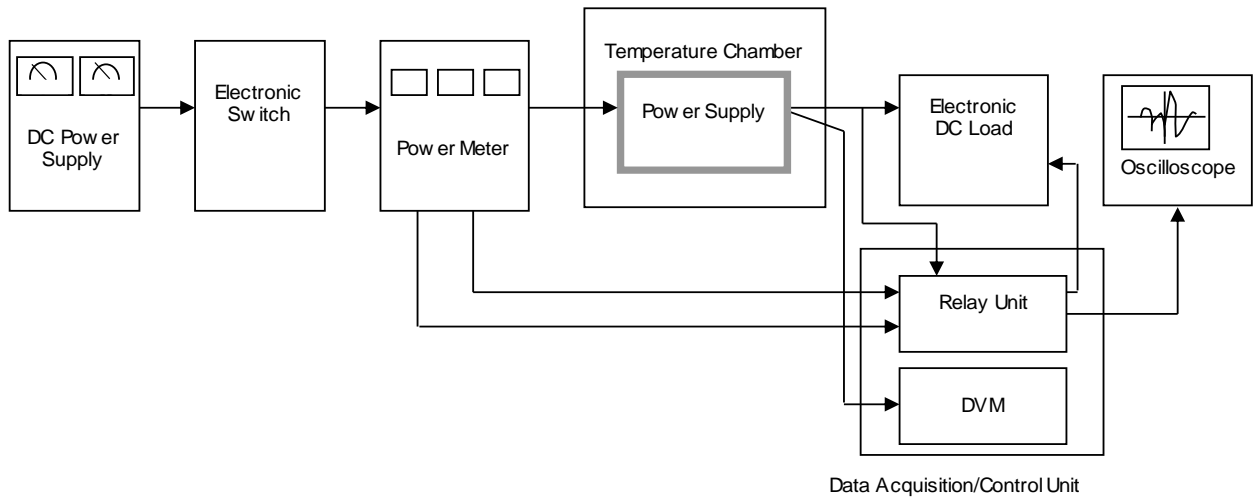


Figure A

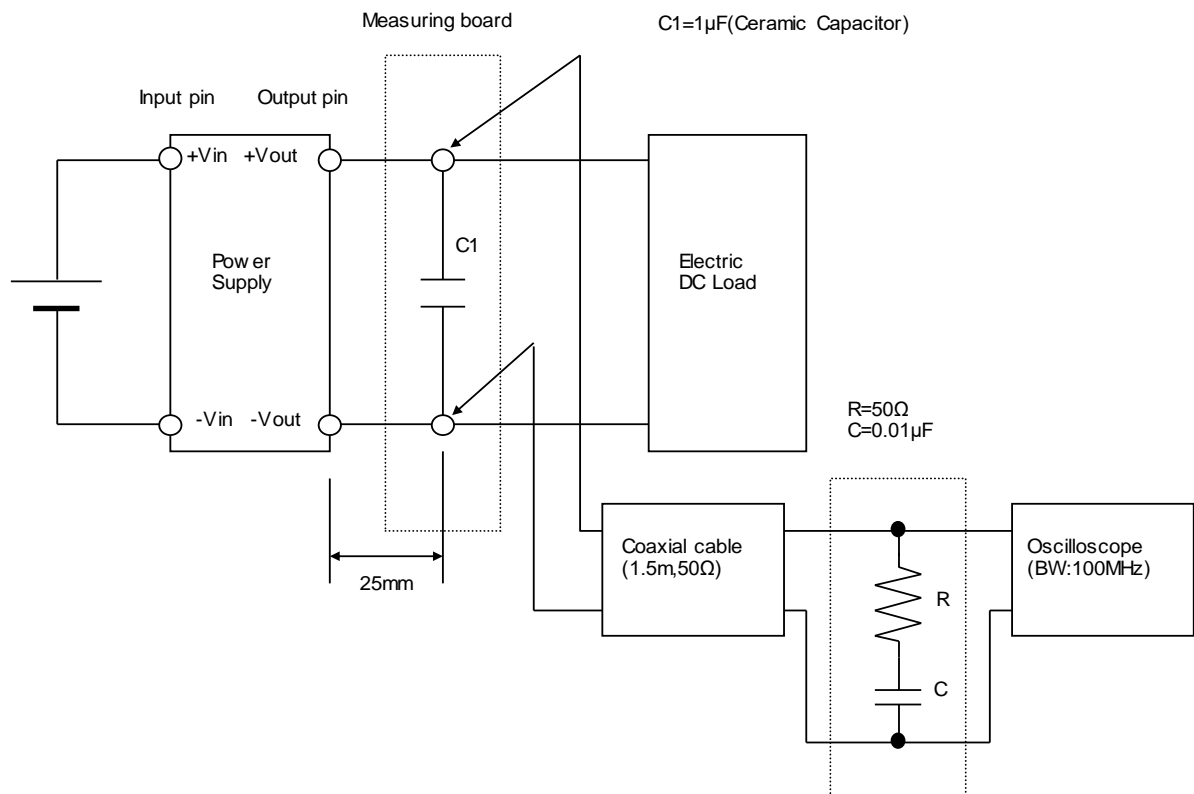


Figure B